

APPLICATION WORD BLOCK

FOR ANDRIOD USER

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APPLICATION WORD BLOCK

FOR ANDRIOD USER

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Thesis submitted in partial fulfilment of the requirements for the award of the degree
of BACHELOR OF COMPUTER SCIENCE (SOFTWARE ENGINEERING)

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LIST OF SYMBOLS

CHAPTER 1: INTRODUCTION

1.1 Introduction

Nowadays, the mobile phone plays a major role in our lives, which brings many benefits to us but also contains some drawbacks. The mobile phone will certainly bring about a lot of advantages. First of all, the mobile phone can well-thought-out the swiftest means of communication in our daily life. We can contact easily with our anyone by calling or sending messages. It can also made people happier in daily live with entertainment. For example, listen to music and play games on mobile phone. Moreover, by using the latest apps for smartphones, accessing to internet looking Film and check our profile in social networks. Our studying becomes more effective and easier by having current smartphone in hand which can makes look up dictionary, find out many source of reference on internet for useful of studying.

Instead of that its also having disadvantages. Firstly, it become abusing their smartphone because it can lead ability of human communication is restricted if the mobile phone dominate in your daily life activity. Some people only concentration on their phone without communicating. The uses of mobile phones as well plentiful will make people take a lot of time and it consequences not only influences on their grade but also it is a cause bad heath routine which lead reducing sense of eye.

But some people want to take advantage the disadvantage of evolution software for personal purpose .The bad things become vulnerable to all human in the world. Because there is no application that can be filtered. If existent of software, it might be too expensive per month for the poor family to pay especially people live in development country like Malaysia. That's why this study will develop a mobile application that used consumption is low but can be use everyone can used.

1.2 Problem statement

Due to the rapid technology evolution, uncontrollable of the software been developed which that brings the risk bad things are higher rather than benefit of it. For example, pornography easy to download or be scam from someone. This tis because does not have banned the issue in Malaysia. The porn is the portrayal of sexual subject matter for the exclusive purpose of sexual arousal. Pornography can be delivery with various medium. In development country, computer technology also been developed as long as porn spreading wider. Pornography are portable which mean that along medium as mobile with them.

Mobile phone of the significant for student who are still studying whether school or university. Mobile phone give a lot of the benefits to student whether they know how important of the mobile towards study. Not all people will use the mobile phone appropriately but they goes misuse the technology. According to Sin Chew Daily ,2016 reported that most victims were between the ages of 13 and 15, with most of them falling victim to the "grooming" tactic in which they were connected to sexual predators on social media. The perpetrators would typically be friend children as a prelude to sexual abuse.

Lack of the mobile application that can hijacked the porn word, the Malaysian Communication and Multimedia Commission (MCMC) revealed that only 35.6% of parents monitor their children's smartphone activities. The statistic above means that more than 50% that parent are does not realise and does not monitored their children allowance use of mobile phone. In a Sinar Harian report published on 7 January, Siti Kamsiah said that sexual predators these days do not need to meet face to face, but only need to approach and be acquainted with victims through social media and communicate sexually through words and by sending pornographic images, leading minors who are unable to distinguish between right or wrong to engage in sexual activity. Based on the statistics of reported cases, WeChat was used the most, followed by Facebook and Beetalk.

As conclusion the lack of hijack words on mobile phone make me want to develop a mobile apps for curb these issues.

1.3 Objective

To achieve goal of this project there are different objectives

1. To identify the existing application of disabling porn apps.
2. To identify terms that related to the porn on mobile phone.
3. To develop a mobile application of hijack word based on analysed features.

1.4 Scope

1. This application target to be used in android operating system platform mobile phone. This application is target only android user.

2. System platform for application can hijacked word is a mobile application.

3. Hardware are that are been used for this application

- i. Lenovo idea pad which specification on intel i5
- ii. Desktop

1.5 Thesis Organization

Overall by problem statement, there has an organisation of the thesis which contain 5 subtopics where chapter one, which cover the introduction of blocking application. Firstly, the problem statement, objective and the scope of this project are includes in chapter 1. Next, literature review and defines the review on existing system are contained in chapter 2. The particular methods and to implement on mobile being explained. Besides that, chapter 3 focusing on the methodology that will be used during whole process with specific components. The model will be used the development of application is RAD. Furthermore, chapter four, briefly introduced about implementation of the project and discuss result obtained. On chapter 5, we summarise result of system determine either achieve or not, by listing the not.

CHAPTER 2: LITERATURE REVIEW

2.1 INTRODUCTION

In this chapter, it will briefly discuss about the literature review of the application for block word in mobile. Firstly, discussed about comparison between the existing systems that related to the project. Next, this part discussed on research about this project. The last part concerns on technology and development tool used to develop the application.

2.2 EXISTING SYSTEM

According to Spysize(2018) , the top 3 porn blocking application for andriod are Net Nanny, Qustodio and so on. In this subchapter, it briefly discussed about the three existing system from top 3 porn blocking and there is comparison between those system.

2.2.1 Porn Blocker



Figure 2.1: Porn Blocker

Major smartphone browsers including Chrome, Firefox can actively block porn websites and advertisements whether the phone is running on 4G/ LTE and even Wi-Fi connections. Its characteristics like dedicated and automatic porn blocking feature, patented SafeSurfer technology, PIN Code access where to blocked websites and blocks potentially harmful in Google searches. Furthermore, price is \$1.34 per month which quite expensive. Figure 2.1 illustrate that the application for porn blocker.

2.2.2. Qustodio Parental Control for Android



Figure 1.3: Qustodio Parental Control for Android

Qustodia is an all-in-one parental control app that can block pornography sites as well as other harmful services. Figure 2.2 illustrate that the application for qustodio parental control for android. It can also control app and device usage by setting up custom preferences.. Restrict all kinds of websites how you please and limit device screen time. Next, Call and SMS tracking and monitoring where real-time location tracking is applied to this application through gps. At the same time, block, time apps and games where there have words inappropriate is used. By the way, price is priceless which mean its free.

2.2.3 Mobicip for Android

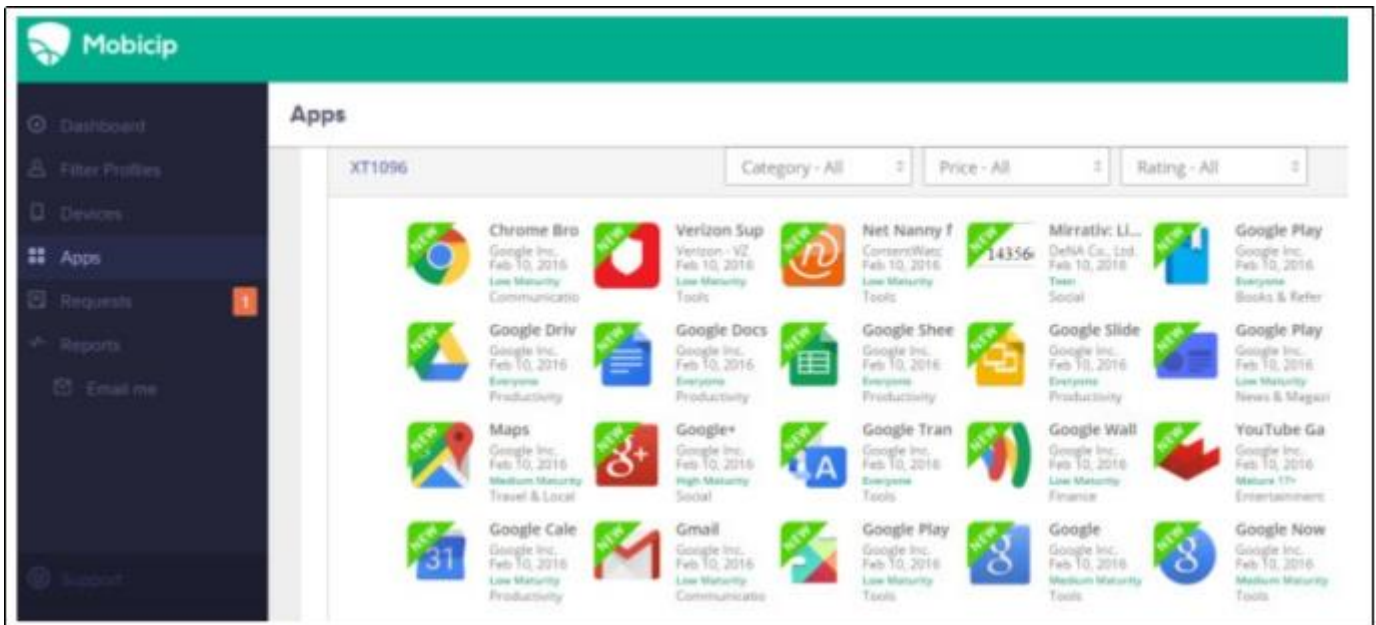


Figure 2.3: Mobicip for Android

Figures 2.3 illustrate that the application for mobicip android which one of the most popular and trusted Android parental control apps, Mobicip is available on all kinds of device, even your desktop computer, so you can simply set up your preferences once and enjoy the safety benefits on all your devices, giving you peace of mind when it comes to your child's safety. Its properties which block age-appropriate devices and monitored app downloads whereby we can filter the download. In other hand time limits on internet usage are provided for chances rate use the data towards porn will be reduced. At the end, price is 39.99 per year where to too expensive.

The table 2.1 illustrate that summarised the application three porn blocker chosen.

Table 2.1 Summary existing Porn blocker application

Comparison	Porn Blocker	Qustodio Parental Control for Android	Mobicip for Android
Features	Dedicated and automatic porn blocking feature	Restrict all kinds of websites how you please	Block age-appropriate devices
	Patented SafeSurfer technology	Call and SMS tracking and monitoring	Monitor app downloads
	PIN Code access to blocked websites	Real-time location tracking	
Prices	\$1.34 per month	Free	\$39.99 per year
Limitation	Blocks potentially harmful Google searches	Block and time apps and games	Time limits on internet usage
		Limit device screen time	Time limits on internet usage



2.3 Platform comparison

There are some required properties or features from three different platform. One of the features is meet requirements, usability and etc. There some explanation the properties on this platform. Meets Requirements is requirements analysis encompasses those tasks that go into determining the needs or conditions to meet for a new or altered product or project, taking account of the possibly conflicting requirements of the various stakeholders, analysing, documenting, validating and managing software or system requirements.

Usability is the ease of use and learnability of a human-made object such as a tool or device. Usability is the degree to which a software can be used by specified consumers to achieve quantified objectives with effectiveness, efficiency, and satisfaction in a quantified context of use. Ease of setup is the degree to which conversion from previous environments influenced the development of the application. Ease of admin is easier to perform functionality of mobile as admin. Quality of Support is able to to support all mobile whenever update required frequently except apple series. Product Direction (% positive) make sure that they have someone who sets and drives the direction of the product towards market.

All properties are required in hardware system whose someone wants to develop an application in mobile. There are comparison between three platform. The table 2.2 shows the comparison between three platform. Table 2.3 shown below advantage and disadvantage selected platform.

Table 2.2 Comparison between the three platform.

	 Android Studio	 Xamarin	 Apache Cordova
Developer	Google, JetBrains	Microsoft	Adobe Systems
Pricing	Free	Individual: RM 97.80/month Business: RM3908/year Enterprise: RM7429/year	Free
Programming language	Java / Kotlin	C# & .NET Framework	C#, C++, CSS, HTML, Java, JavaScript and Objective-C
Platforms	Android	iOS, Android, Windows, Blackberry	iOS, Android, Windows Phone, Blackberry
Companies using the product	PageSuite, Verizon Communications, Garmin Ltd	GitHub, Foursquare and Microsoft	Sony, Mozilla, Intel, IBM, SworkIt, TripCase, and Untappd

Platform	Android studio
Advantage	Intelligently replaces values
	Easy maintainability
	Reliable
	Less uses of time for quality assurance
Disadvantage	Many errors that are almost impossible to remove
	Many offline issues
	Apps run slow on the ARM version of the emulator

Table 2.3: Advantage and disadvantage selected platform.

2.4 Conclusion

The highlighted words is why platform chosen for project needs when to develop, refers table 2.2.. Meets Requirements is more successful at meeting users' requirements than Ionic and PhoneGap. Ease of Use where easier to use than Ionic and PhoneGap, according to users. Quality of Support is outperforms Ionic and PhoneGap in Quality of Support as reported by users. Product Direction (% positive) where Android Studio users say the product is going in the right direction more frequently than Ionic and PhoneGap user.

Furthermore, there are some pros and cons on android studio platform where to develop application in android. Advantage is intelligence replaces values which means references are automatically replaced with their real values so can easily view which colour are using for example. Using familiar and tried and true development tools also contributes to developer productivity and satisfaction of maintainability. Less errors and more stable code in production. The compiler detects all possible errors at compile time, not at run time.

For disadvantage many offline issues is not being fixed. Apps runs slow on the ARM version of the emulator. While the Android team have recently fixed issues that had to do with emulator on a an x86 bits architecture and greatly improving emulator speeds emulating an android device and running app on an Android device and running apps on an ARM architecture is still pretty slow. Many errors that are almost impossible to remove especially update SDK (even with latest version).

Based on this explanation, android studio will used to develop application in mobile during implementation.

CHAPTER 3: METHODOLOGY

3.1 Introduction

Methodology used during the development of Word Blocking Application on android user will discovered in this chapter. This method play as guiding principle for project to make sure achieved the unbiased and encounter the customer specification. Rapid application development (RAD) is one of used as the Software Development Life Cycle (SDLC). There are some method are that can be use like waterfall, agile, incremental and iterative. Agile Methodology well-defined a people understand, aiming outcomes style to software changes that compliments our rapidly changing world. It's centred around planning adapted, self-organization, and short interval in delivery. It's flexible and aims for continuous improvise in quality.

Iterative and increment software development remains a method software development that was modelled about a gradually upsurge in feature add-ons and a repeated issues and improvise design. Its initiates with scheduling and remains through iterative development cycles relating constant customer response and the incremental addition of features concluding with the placement of finalized software at the termination of each sequence or cycle.

Rapid application development(RAD) was implemented from Waterfall model but it adding by iterative and prototyping development process. Its uses short time in planning and it more focusing on collecting customer requirements. For instance in grouping, prototypes were testing at the early by customer using iterative concept, reused existing prototypes, unremitting integration and rapid delivery . In model, developers and stakeholders can refined and validated the features after one prototype completed. Next, customer can give response and improvise on prototype to produce along delivery and their requirements.

3.2 Methodology

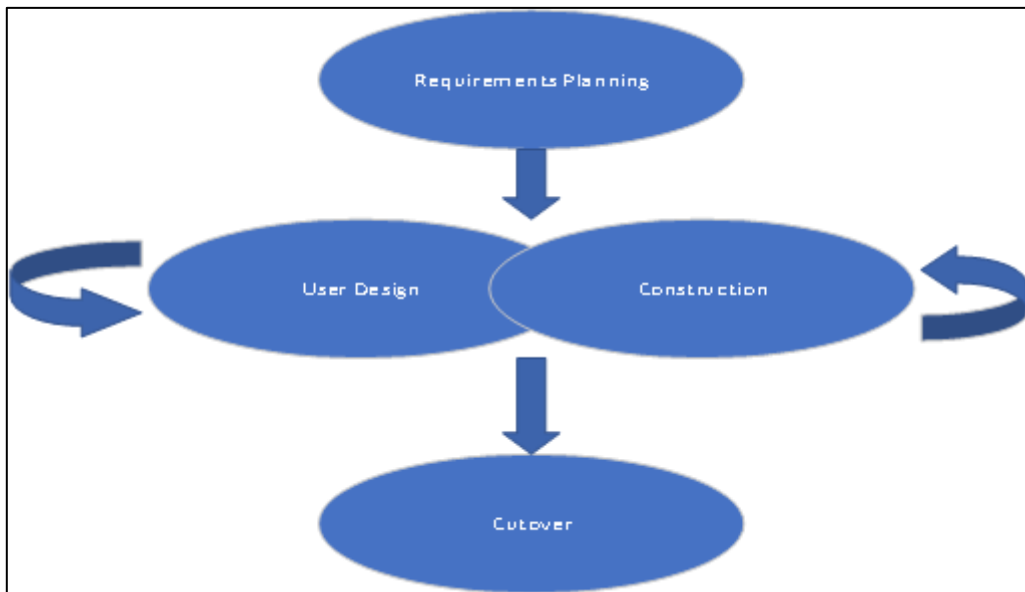


Figure 3.1: RAD model adapted from Rapid application development.

Incremental model and develop the component as prototype simultaneously are called Rapid application Development (RAD) model. Important part of this prototype in requirement to this prototype is important part of requirements whether determine phase and prototype will integrate to produce a complete product. Besides that, easy to change within the progression since no detailed planning. The figure 3.1 show that RAD model. Requirements planning, user design, construction and cutover are four phases in RAD model. Each of the phase will explain next subsection.

3.2.1 Phase 1 : Requirement Planning

In planning phase, system planning and system analysis are combined. Discussion and agreement between customer and admin on project scope, constraint and system requirement.

3.2.1.1 Gantt Chart

From beginning until completed project are been record as milestone of the project, refer Figure in Appendix A. This appendix shows estimation the durations are included actual duration as report in Undergraduate Project 2.

3.2.1.2 Software Requirement Specification

Appendix B refers to the Software Requirements Specification (SRS)

3.2.1.3

Story Board

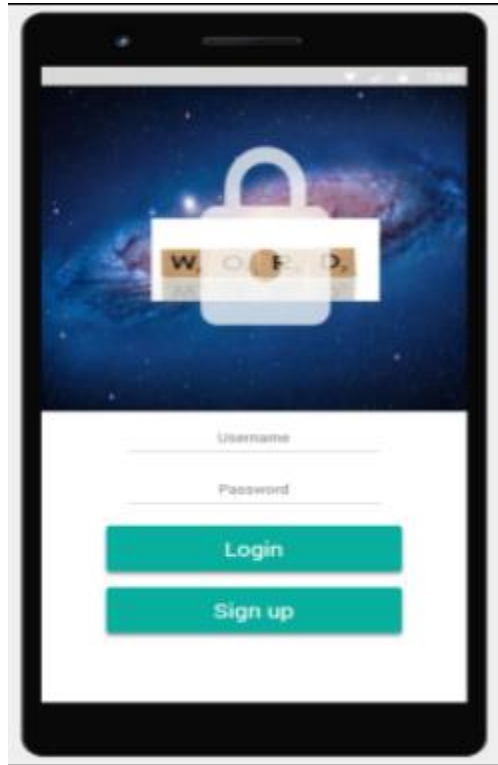


Figure 3.1: Design for login

3.2.1.3.1

Login

Figure 3.1 show design for login is customer need to insert user id and password to enter their session. Login page have 2 edit text for user id and password and 2 buttons which login and signup.

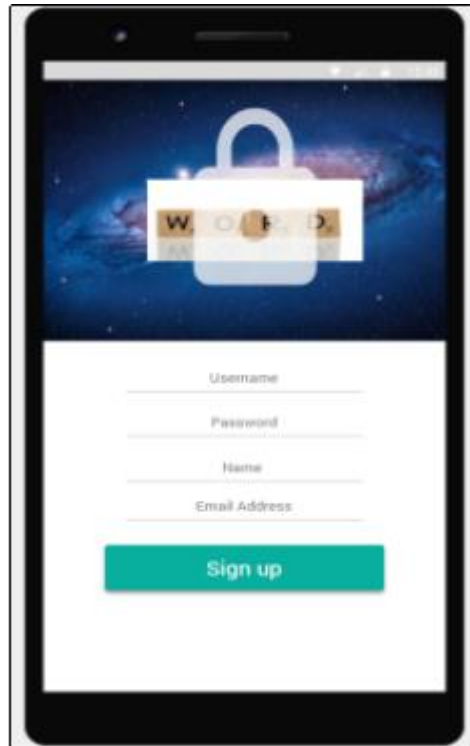


Figure 3.2: Design for registration

3.2.1.3.2 Registration

Figure 3.2 show design for registration is customer need to register. It needed to insert username, password, name and email address.

3.2.1.3.3

Homepage

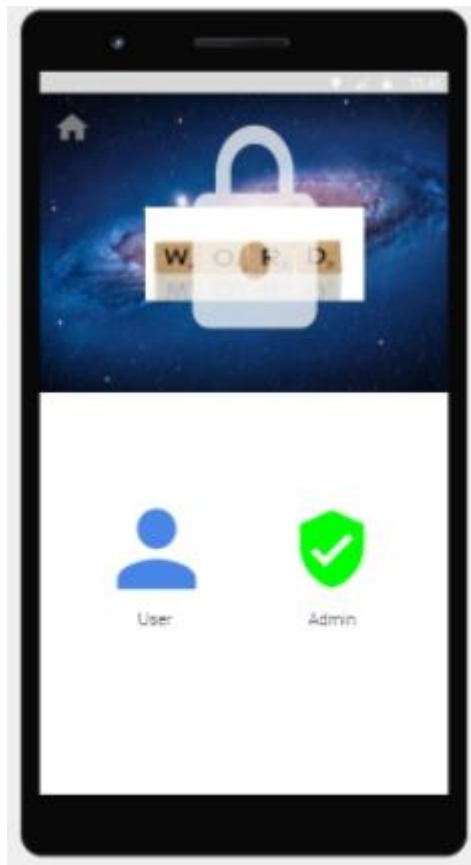


Figure 3.3: Homepage

Figure 3.3 shown homepage design for two user consists of customer and admin. During design there are image button which function to go the next activity. Every customer has different homepage with different content. In this design there are text view and image that will show before they login.

3.2.1.3.4

Integration with web browser



Figure 3.4: Integration progression

Figure 3.4 shown integration progression is for inform about progression of integration with web browser.

3.2.1.3.5

Integration Result

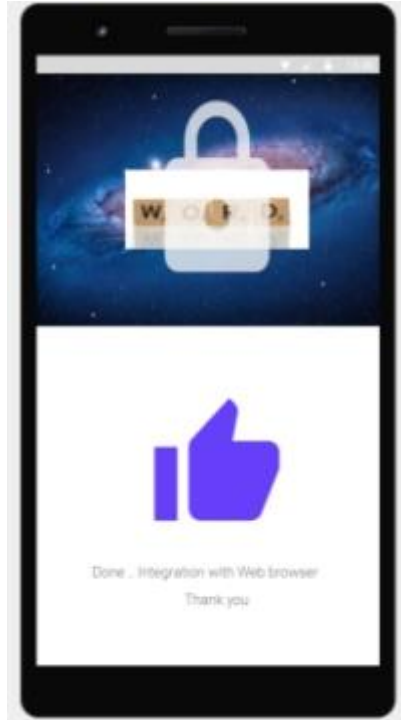


Figure 3.5 Integration progression

Figure 3.5 shown integration progression is notification successful integration with web browser.

3.2.1.3.6

Select Language

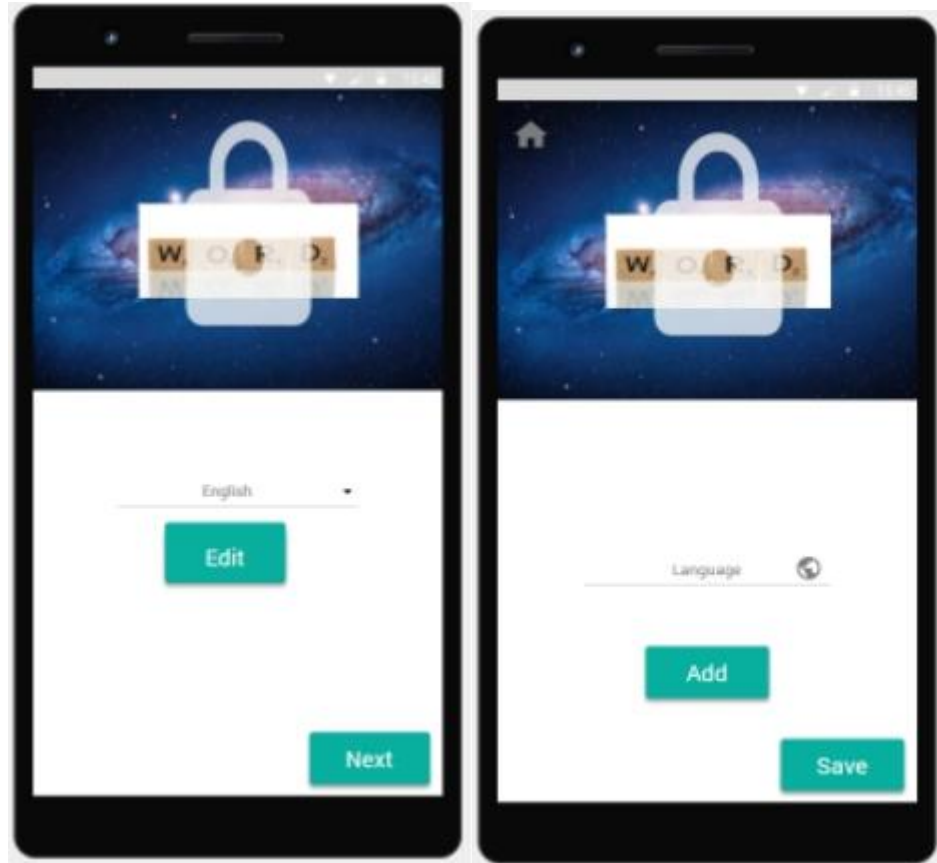


Figure 3.6: Language Section

Figure 3.6 shown language section is interface refers to role of admin. On this design for selecting language are required for the editing, adding, or update a new language. Dropdown list need to select, 1 button edit, and 1 button next for proceed incoming state. Updates language and save.

3.2.1.3.7 Editing Word

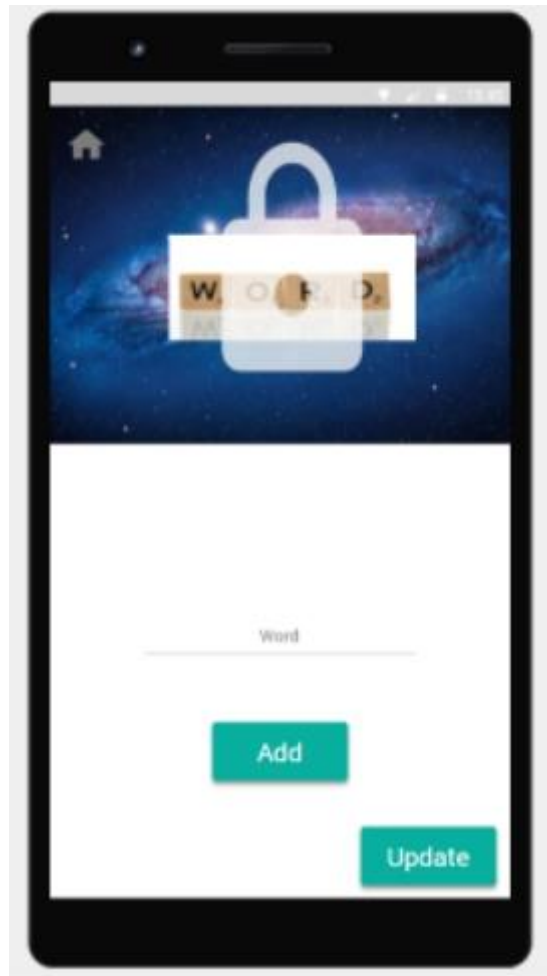


Figure 3.7: Word Section

Figure 3.7 shown word section refers also role of admin. On this design for enter word are required for the editing, adding, or update a new word after the selecting language Editing text need to insert word , 1 edit text , 1 add button and button

3.2.2 System Design Phase

In this phase, system analyst and develop model and prototypes with user interact that represented by all system processes input and output. Usually, RAD using a combination of Joint Application Development (MD) techniques and CASE tools to translate user needs into work models. A continues interactive process that allows users to understand, modify, and approve a work model of the system that meets their needs are called System Design.

Appendix C refers the design document of this system which is Software Design Document (SDD).

3.2.2.1 Context Diagram

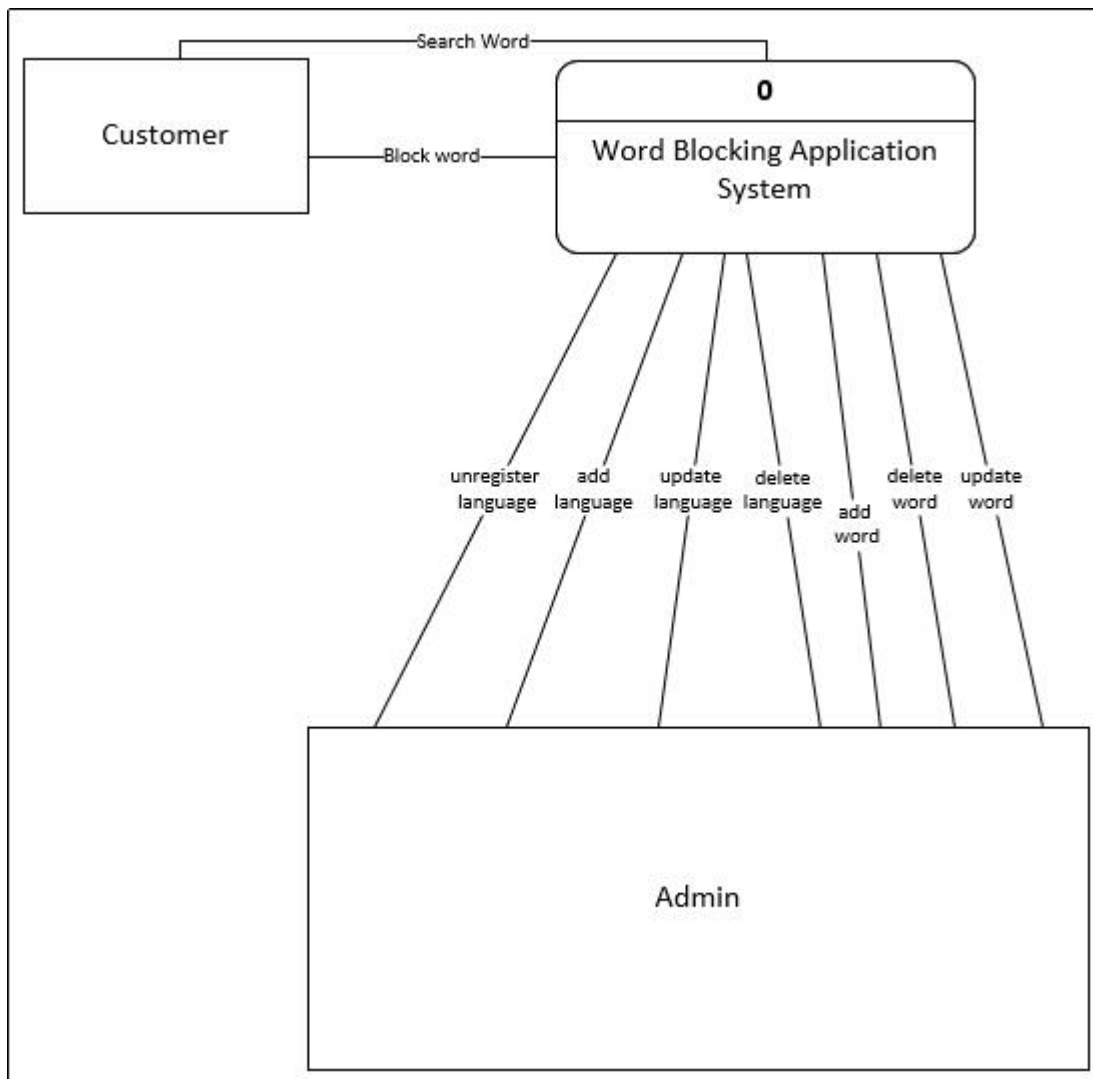


Figure 3.8: The context diagram of Word Blocking Application System

Figure 3.8 shown the context diagram of Word Blocking Application System. This diagram define the boundary between system or part of system and its environment showing the entities that interact with it. Based on this project the entities are categorized into 2 types of user which are customer and admin while the interaction between entities and system are represent with the arrows showing the input and output of the system.

3.2.2.2 Use case

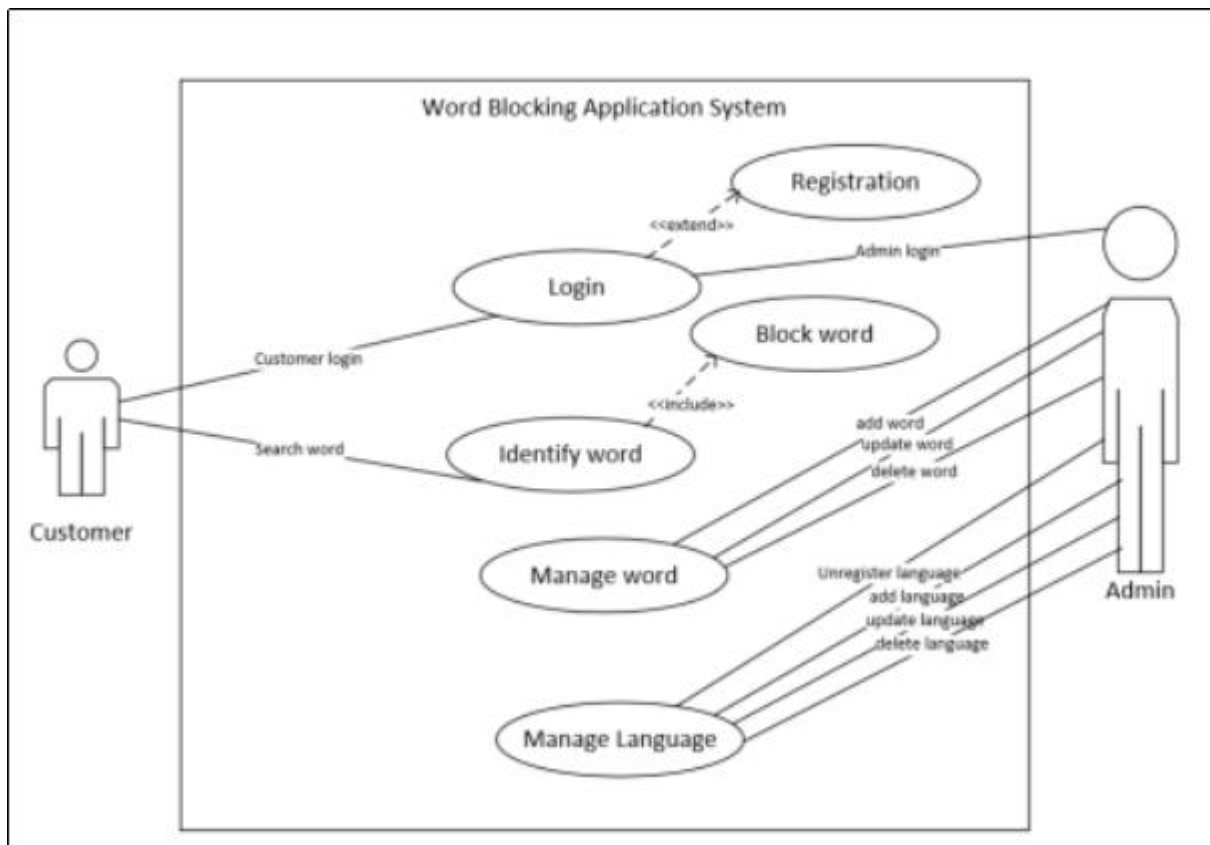


Figure 3.9: The use case of Word Blocking Application System

Figure 3.9 shows the use case of Word Blocking Application System. This diagram defines the customer interact with the system from the relationship between the customer and the different use cases is involved.

- a) Login – customer or admin must be login before to use this application
- b) Identify word – customer will search word and the search word will block for inappropriate word
- c) Manage word – admin will add new word or edit word. Update the latest word.
- d) Manage language - admin will add new language .Update the latest language.

3.2.2.3 Flow Chart

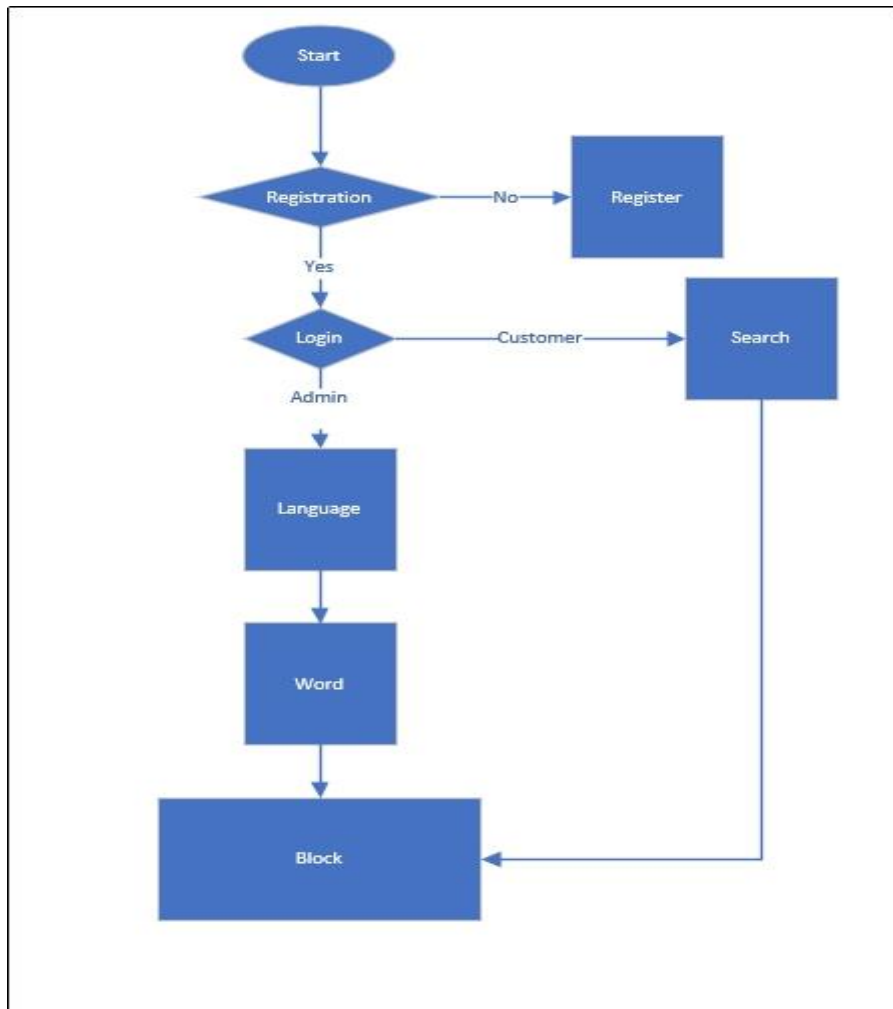


Figure 3.8: The flowchart of the Word Blocking Application System

Figure 3.8 shows the flowchart of the Word block system. This diagram defines flow of the system with showing the flow diagram.

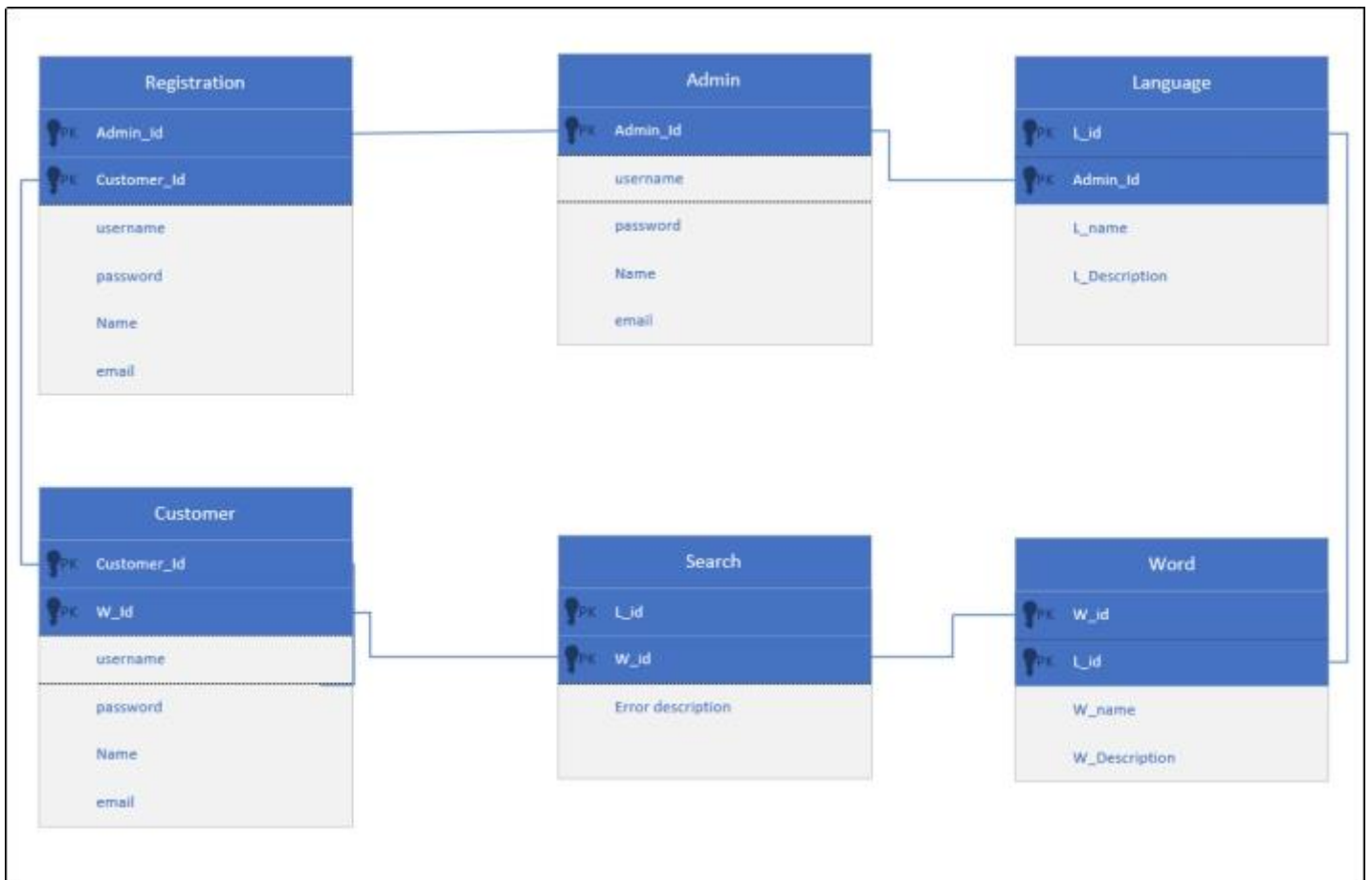


Figure 3.9: The Entity Relationship Model

Figure 3.9 shows the flowchart of the Word block application system. This diagram defines a data or information structure which can be implemented in a database. Primary key is a unique key that be reference for the retrieve or stored of data. In database, primary key constraint uniquely identifies each record. There are several primary key can be obtained on this system such as Cust_Id, Admin_Id ,w_id and l_id.

3.2.3 Development Phase

In this phase, we are aiming on program and application development task that has same with SDLC. We will need participate and suggestion for change or improvise in report when developed. Programming, application development, coding, unit – integration and system testing are 4 task needed to be conducted tools development will be used this development phase is Android Studio.

3.2.4 Cutover Phase

Cutover phase will compress whole the process and collect all requirement at final stage. Data conversion testing, changeover to new system and user training are included in SDLC. The consequences is a new system will developed and can use on that time.

To summarise, there are some pros and cons via RAD on this mobile application. Refer table 3.1 for more detailed about pros and cons of using Rapid Application. The methodology will be used is RAD based on some pros and cons.

Table 3.1 Pro's and Cons of RAD

Pro's	Cons
duced time in developing software	mplicated on management higher.
Changed requirements can be put up in procedure	eds more resources requirement
AD be measured by progression	ly suitable component based and scalable for project

3.3 Hardware and software requirement

Project requirement divided into 2 parts consists hardware and software. All of them are important in conducting development of system. This project dependent on hardware and software to complete this system.

3.3.1 Hardware Requirement

Table 3.2: Hardware Requirement

Table 3.2 shows hardware requirement has been used for this project.

Hardware	Function / Purpose
Lenovo Idea pad	Uses of developing and documenting of the system
Portable Hard Disk	Using for system as support required and help backup documenting file.

3.3.2 Software Requirement

Table 3.3: Software Requirement

Table 3.3 shows software requirement has been used for this project.

Purpose	Software
OS	Microsoft Windows 10
Developed prototype of system	Kotlin
Platform of the system	Android Studio
Store data in database	SQL lite
Documentation	Microsoft Office 2016 Mendeley
Modelling and Designing	Microsoft Visio 2016
Planning for milestones of the project	Microsoft Office Project 2016

3.3.3 Grant Chart

(Refer Appendix B)

CHAPTER 4: RESULT AND DISCUSSION

4.1 INTRODUCTION

In this chapter, we will discuss about the system design, implementation, testing and result discussion of Application Block on Android. The Implementation phase is the crucial phase for the system been developed based on the needs and design has been discussed before. The codes are the main part of the implementation phase as it carries and run the function. Methodology is guided project for make sure project conducted correctly and the system can be delivery on time. All the changes and improvement should be done according to methodology used. All design for the interface, development environment, tools and technology and the system flow will be discussed in detail. Next, type of testing type chosen for this project where the tester only test the functionality of the system based on the specification. Black box testing is functional testing and user acceptance testing will be used in this chapter to test the system. Test plan also described on this chapter.

4.2 IMPLEMENTATION

4.2.1 Development Environment

This system is mobile application based system. The system is develop by language Kotlin, JSON, PHP and JavaScript. Kotlin is the main language to execute the function in the system while the PHP JSON JavaScript is for the storage of data.

MySQL is a database used for this system. phpMyAdmin is an open sources tool manage administration of MySQL. The task similar to other database software such as create, modify or delete database, tables, fields or rows by executing the SQL statements.

4.2.2 Functionality

a. Homepage



Figure 4.1 Homepage

Figure 4.1 shows the homepage interface on Android Word Block on Android user. In this homepage, they have to decide whether they are user or admin.

b. Login

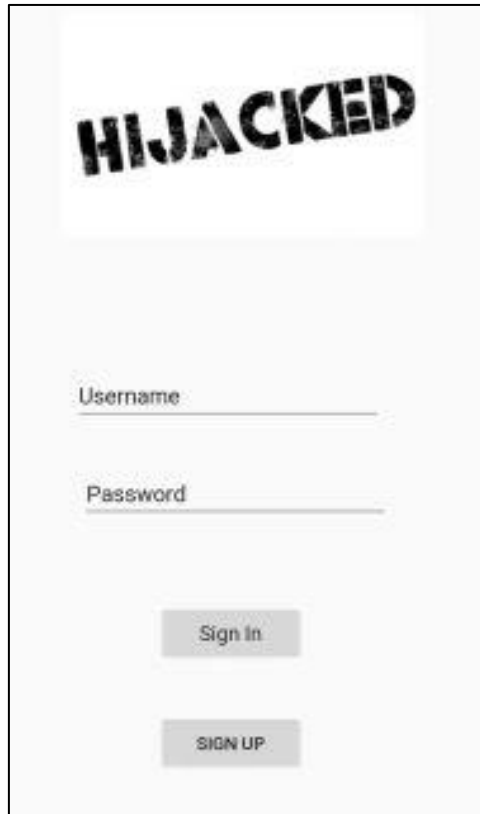


Figure 4.2 Login

Figure 4.2 shows the login interface on Android Word Block on Android user. In this login, customer will login in the system by inserting username and password.

c. Admin login

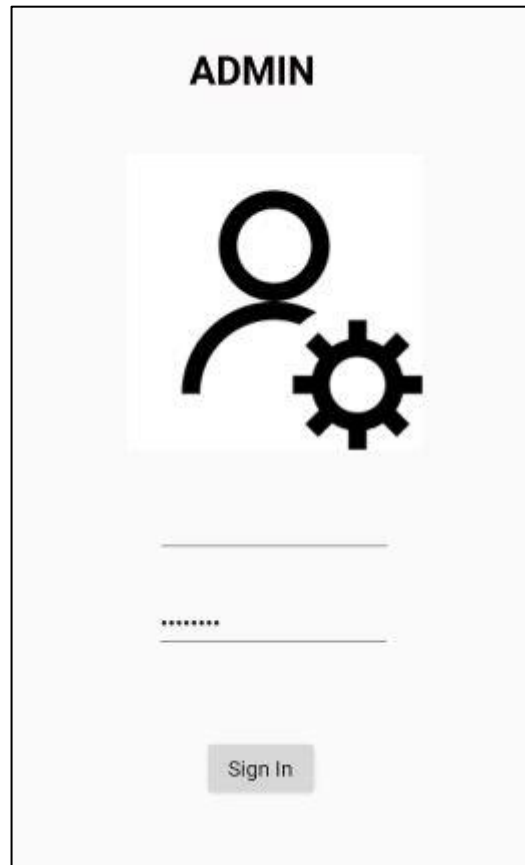



Figure 4.3: Admin Login

Figure 4.3 shows the admin login interface on Android Word Block on Android user. In this login, admin will have to log with their own id and password.

d. Customer Sign up



The image shows a mobile application interface for customer sign-up. At the top, the word "CUSTOMER" is displayed in a bold, black, sans-serif font. Below this, there are four input fields, each with a label above it: "Name", "Email", "Username", and a password field indicated by a series of dots. Each label and its corresponding input line are underlined. At the bottom center of the form, there is a rectangular button with the word "DONE" written on it in a simple, black, sans-serif font.

Figure 4.4: Customer Sign up

Figure 4.4 shows the customer sign up interface on Android Word Block on Android user. In this interface, customer has to do key in all the data requirement for the registration.

e. Admin Sign up



The image shows a mobile application interface for admin sign-up. At the top, the word "ADMIN" is displayed in a bold, black, sans-serif font. Below this, there are three input fields, each with a label to its left and a horizontal line for text entry. The first field is labeled "Name", the second is labeled "Email", and the third is labeled with seven asterisks "*****". At the bottom center of the form, there is a rectangular button with the text "OK" inside it.

Figure 4.5: Admin Sign Up

Figure 4.5 shows the admin sign up on Android Word Block on Android user. In this interface, admin has to insert all information that full fill requirement, So they will have an unique id.

f. Admin inserting Word



Figure 4.6: Inserting Word by admin

Figure 4.6 shows the inserting word by admin on Android Word Block on Android user. In this session, admin will add or delete any words where will detected.

g. Update data



Figure 4.6: Successfully Update

Figure 4.6 shows the update interface on Android Word Block on Android user. In session, all admin updated new data will appeared this session. This session act as notification.

h. Pop out session



Figure 4.7: Pop out

Figure 4.7 shows the pop out interface on Android Word Block on Android user. In this interface, whatever search from customer will be blocked by this session.

4.2.3 Summary

The development of this system achieves the whole objectives of this project which:

- i. The objective of this project is to develop Android Word Block on Android user which can help parental control toward our children. By using this system, it will allow parent install this application on each self phone on their child.
- ii. To purpose build the registration of data, parental will get notification from the activity of their child

4.3 TESTING AND RESULT DISCUSSION

Software testing is a process of executing a program or application with the intent of finding the bugs and defect that can be lead the project to fail. In the software testing, it will also include verification and validation process to ensure the requirement of the project have been full filled. The project need to run and the output must be same with the expected result. There are several testing technique can be used to test the system. However black box testing is recommended technique. Black-box testing is specification based test design technique where the input value derived without knowledge of the program logic and produce the actual result. Thus, the system is observed externally and focus on what the system does.

Furthermore, there several types of testing can be carry which are unit testing, integration testing, system testing, user acceptance testing (UAT). There has four stages of testing. Firstly, unit testing where unit or components of the software are tested for check either component functioning well or not. Next, integration testing means component of the software are integrates and test as group. Third, system testing where is a test completed system. Last, UAT is process where the system is test for acceptability. This ensure that system meets the customer requirements.

4.3.1 Functionality Testing

Table 4.1 Test Cases in Functional Testing

Table 4.1 shown test cases in functional testing in this system.

Test Condition	Test Case	Function being tested	Input	Expected Output	Actual result	Status
Authorized register	T1	System is able to verify a valid keyword	Enter correct keyword	Display sign up form	Display sign up form	Pass
Authorized register	T2	System is able to verify a valid keyword	Enter incorrect keyword	Display pop up error and return back home	Error pop up message and return home	Pass
Register	T3	System handles a valid staff and customer detail	Insert correct detail	Display pop up successful	Successful message popup	Pass
Register	T4	System handles a valid staff and customer detail	Insert incorrect detail	Display pop up error or hint	Error pop up message and return home	Pass
Authorised login	T5	System handles a valid customer details	Insert correct detail	Display pop up successful	Successful message popup	Pass
Authorised login	T6	System handles invalid customer details	Insert incorrect detail	Display pop up error or hint	Error pop up message and return home	Pass
Authorised Login	T7	System handles valid Admin details	Insert correct details	Display pop up successful	Successful message popup	Pass

Authorised Login	T8	System handles invalid Admin details	Insert incorrect details	Display pop up error or hint	Error pop up message and return home	Pass
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4.4 USER MANUAL

User manual is a technical communication document intended to assist user to use a particular system.

(Refer appendix)

CHAPTER 5: CONCLUSION

5.1 Introduction

Application Word Block on Android is a mobile based system. Where this system can insert the words are not reliable from admin with storage provided. It will hijacked words when user using the words. User information will get through registration for on purpose. It will recorded user information in database (SQLite). Admin plays role as monitoring new language and keep update on database of word.

Application Word Block on Android using Rapid Application Development (RAD)

Methodology. By using this methodology it can be speed up the system development the process. The criteria of the system has been archive such as objective, problem statement and project through this methodology. For example, user will see the display of only white page on the android. While the admin will notice new word unnecessary and keep update latest version.

5.2 Advantage and Disadvantage

Table 5.1: Advantage and Disadvantage

Table 5.1 shows the advantage and disadvantage on this system.

Advantage	Disadvantage
Safe Surf among young generation	Costly
Reduced scam from intruders	Frequently maintenance
Well use of internet	Need database large.

5.3 Project Limitation

To achieve the system completed, the though I faced is, frequently updating language, Kotlin either small nor large. Sometime it require whole the system changed due the structure of language change. I realised that Kotlin is not a stable language to develop as mobile system with individual limited requirement. This make I extend a bit the project final year to complete.

5.3 Future Work

There are several that can be carried out for future improvement of Application Word Block on android such as development a mobile application in beta mode. So that the user can surf the internet with the safety. Nowadays, most of the software been develop with beta mode where it can be self testing.

APPENDICES

APPENDIX A: GANTT CHART

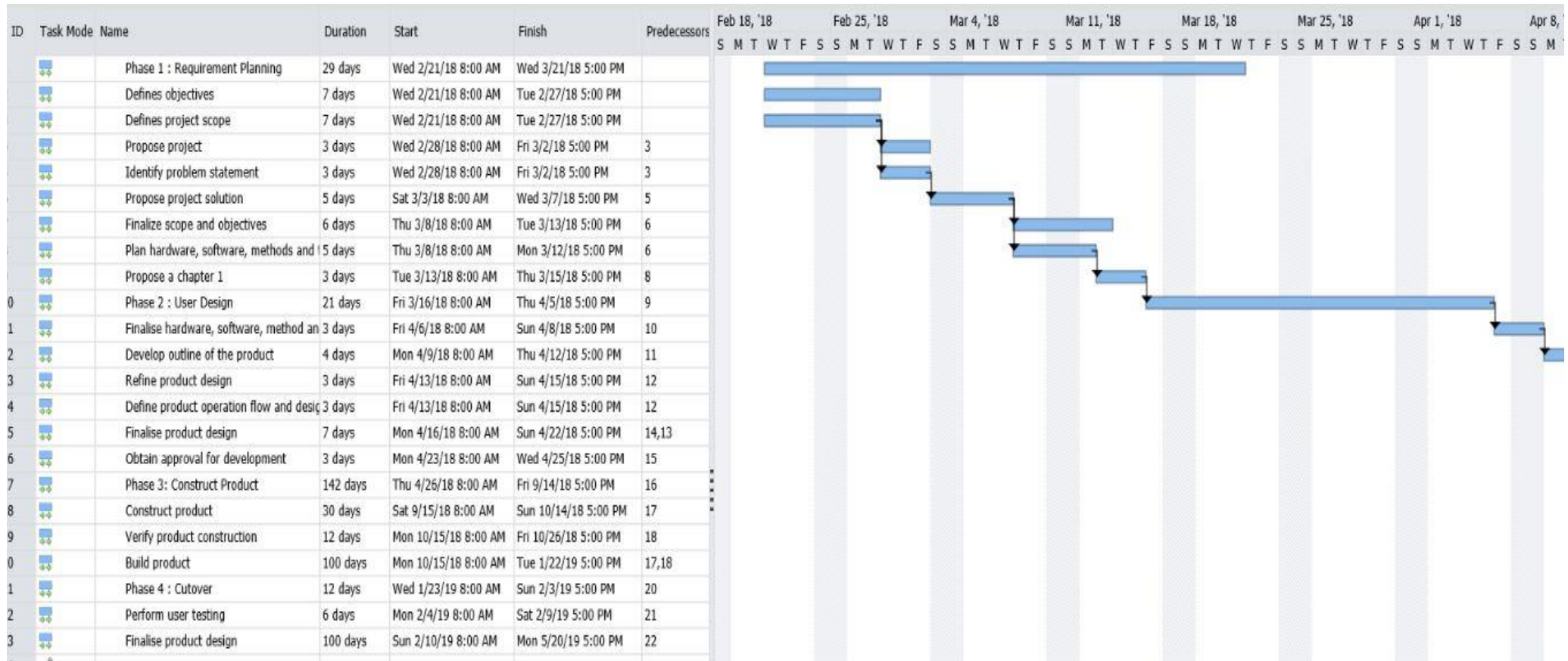


Figure A.1: Gantt Chart

APPENDIX B: SOFTWARE REQUIREMENT SYSTEM (SRS)

SOFTWARE REQUIREMENT SPECIFICATION

(SRS)

Word Blocking Application on Android User

Generated By:

MOHD AMIRUL AMZAR BIN MOHD TALIB



1.0 PRODUCT DESCRIPTION

1.1 User Characteristics

Customer is expected to be Internet literate, able to use a search engine. Admin are expected to be Internet literate and have some knowledge about managing language and word editor.

1.2 Constraints

1. The robustness to recovery page take 5 seconds.
2. User will have differ and high expectation of performance for our application because they have experience of using other similar application.
3. Respond time take 1 second.



2. Interface Requirements

2.1 User Interfaces

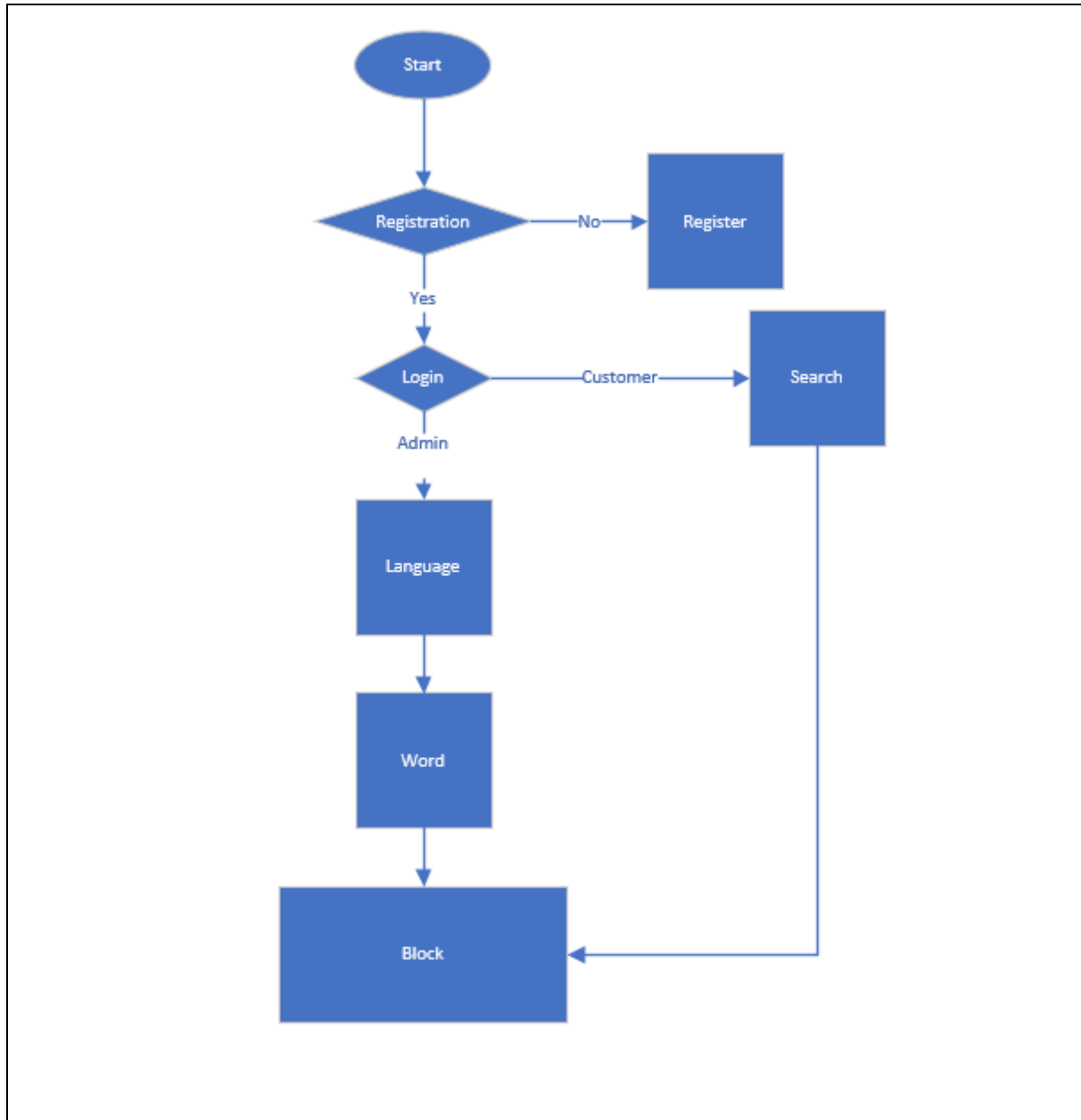


Table 2.1: Flow Chart

Table 2.1 User Interfaces Description

User Interface Name or Number	Description	User Interface Layout
Login interface	User shall key-in their username and password	Refer Appendix 2.6
Search word	User shall insert word in the search box.	Refer Appendix 2.2
Select language	Admin shall select language and start manage language	Refer Appendix 2.3
Select word	Admin shall select word and able to manage word	Refer Appendix 2.7

3.2.2 Hardware Interface

Not applicable.

1.2.3 Software Interface

Refers to Appendix B



3. SOFTWARE PRODUCT FEATURES

3.1 Software Product Features

3.1.1 Login

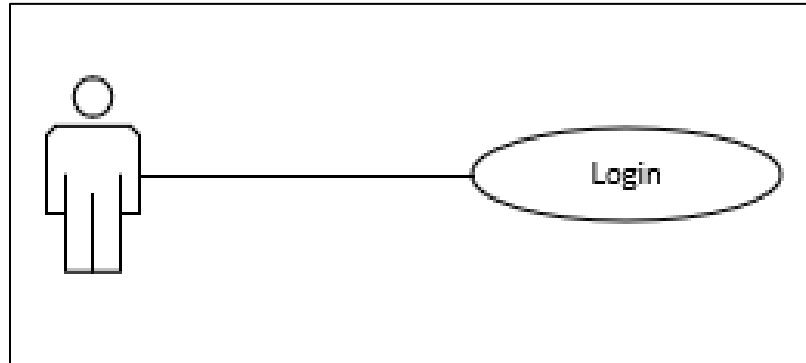


Figure 3.1 Login

Table 3.1 Login

Use Case ID	SRS_REQ-01-00
Brief Description	This use case is initiated by the user. Its provide the capability to enter the username and password in edit text provided
Actor	Event user by customer
Pre-Conditions	The user (admin, customer) must have user account.
Basic Flow	<ol style="list-style-type: none"> 1. This use case begins when user’s wishes to login 2. The system display the Login page that asks the user to enter user name and password 3. The user submits their username and password for login too the system 4. User of the system click login button 5. Login controller checks the username and password



	<p>from database</p> <p>6. Controller verifies username and password</p> <p>[SRS_REQ-01-01] A1- Reenter username and password</p> <p>[SRS_REQ-01-02] A2- Several time not login</p> <p>[SRS_REQ-01-03] A3 - Use case end.</p> <p>[SRS_REQ-01-04] C1- Sensitive with Caps lock</p> <p>7. System display access page for the respective users.</p> <p>8. Use case end</p>
Alternative Flow	<p>If the user do not enter the correct username and password</p> <p>A1- Reenter username and password</p> <p>the system will reenter the username and password</p> <p>A2- Several time not login</p> <p>the system terminate the access to system</p> <p>A3 - Use case end.</p>
Exception Flow	-
Post-Conditions	User's login and use respective of the system
Rules	-
Constraints	C1- Sensitive with Caps lock
Activity Diagram	Refer Appendix



	A-1 : Activity Diagram
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3.1.2 Search

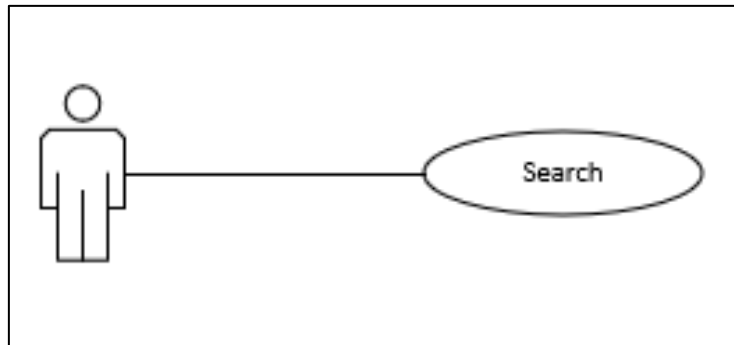


Figure 3.2 Use Case Name-Diagram

Table 3.2 Use Case Name

Use Case ID	SRS_REQ-02-00
Brief Description	This use case is initiated by the user. Its provide the capability to enter the word in search box provided
Actor	Event user by customer
Pre-Conditions	After login from user
Basic Flow	<ol style="list-style-type: none"> 1. This use case begin when the customer click the search box 2. Customer insert a word in that box. 3. After entering a word, clicking search button 4. Customer can cancel the searching word. [SRS_REQ-02-01] <p style="text-align: center;">A-1: Cancel the Entered Word</p> <ol style="list-style-type: none"> 5. Maximum word will be alert. [SRS_REQ-02-02] <p style="text-align: center;">C-1 : Maximum word capacity</p> <ol style="list-style-type: none"> 6. Searching will not allowed if wrong spell. [SRS_REQ-02-03]



	E-1: Invalid Word 7. End use case.
Alternative Flow	A-1: Cancel the Entered Word 1. The word has been erased. 2. Cancel button been clicked.
Exception Flow	E-1: Invalid Word 1. Spelling is wrong. 2. Maximum character capacity
Post-Conditions	The searching word will block
Rules	-
Constraints	C-1: Maximum word capacity Word Capacity: 50 words
Activity Diagram	Refer Appendix A-2: Activity Diagram

3.1.3 Add Language

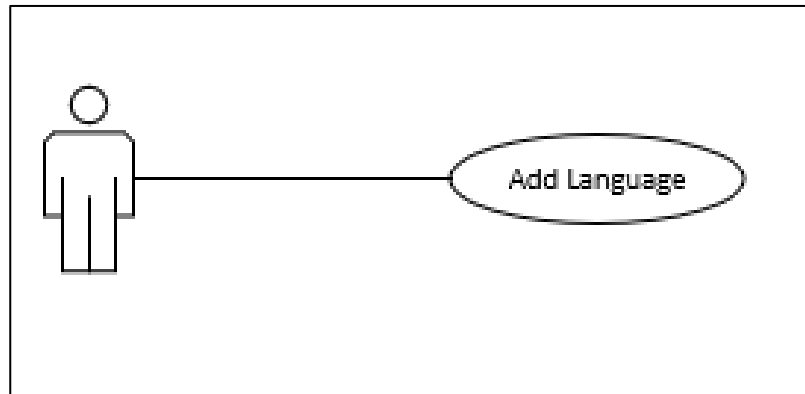


Figure 3.3 Add language-Diagram

Table 3.3 Add language

Use Case ID	SRS_REQ-03-00
Brief Description	This use case is initiated by the admin. Its provide the capability to new language
Actor	Event user by admin
Pre-Conditions	After login as admin
Basic Flow	<ol style="list-style-type: none"> 1. This use case begins when click edit button for language. 2. Select the new language from drop down list. 3. Then click add button to add anew language on drop down list. 4. After that click button save, if cancel the language not be display in drop down list. <p style="text-align: center;">[SRS_REQ-03-01] A-1: Cancel the add language</p> <ol style="list-style-type: none"> 5. After that click button save, but the language are



	<p>not added to drop down list.</p> <p>[SRS_REQ-03-02] C-1: Maximum Slot Language</p> <p>6. End Use Case.</p>
Alternative Flow	<p>A-1: Cancel the add language</p> <p>1. Cancel button been clicked.</p>
Exception Flow	<p>E-1: Maximum slot language</p> <p>1. 4 slot are available</p>
Post-Conditions	Integration a new language with web browser
Rules	-
Constraints	<p>C-1: Maximum Slot Language</p> <p>Slot Language : 4</p>
Activity Diagram	<p>Refer Appendix</p> <p>A-2 :Activity Diagram</p>



3.1.4 Delete Language

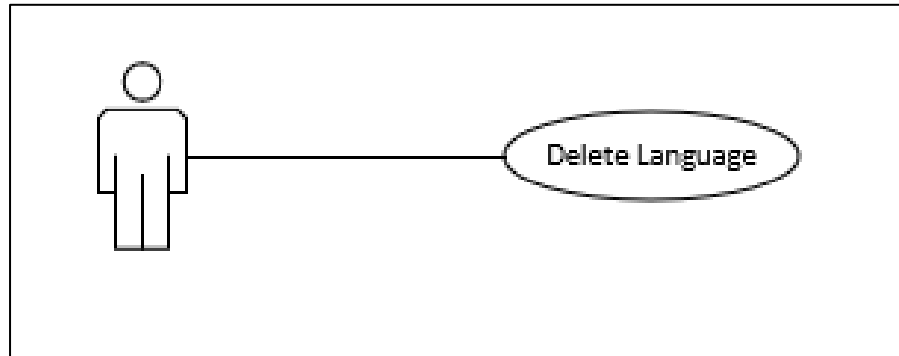


Figure 3.4 Delete Language-Diagram

Table 3.4 Delete Language

Use Case ID	SRS_REQ-04-00
Brief Description	This use case is initiated by the admin. Its provide the capability to delete language
Actor	Event user by admin
Pre-Conditions	After login as admin
Basic Flow	<ol style="list-style-type: none"> 1. This use case begins when click edit button for language. 2. Select the new language from drop down list. 3. Then click delete button to add delete language on drop down list. 4. After that click button save, if cancel the language not be display in drop down list. <p style="text-align: center;">[SRS_REQ-04-01] A-1: Cancel the delete language</p> <ol style="list-style-type: none"> 5. After that click button save, but the language are not deleted to drop down list.



	<p>[SRS_REQ-04-02] C-1: Connection lost</p> <p>[SRS_REQ-04-03] R-1: Minimum slot language</p>
Alternative Flow	<p>A-1: Cancel the delete language</p> <p>Cancel button been clicked.</p>
Exception Flow	<p>E-1: Minimum slot language</p> <p>2 slot are available</p>
Post-Conditions	Integration a new language with web browser
Rules	<p>R-1 : Minimum slot language</p> <p>contain at least 2 languages for integration</p>
Constraints	<p>C-1: Connection lost</p> <p>Connection server lost</p>
Activity Diagram	<p>Refer Appendix</p> <p>A-2: Activity Diagram</p>



3.1.5 Update Language

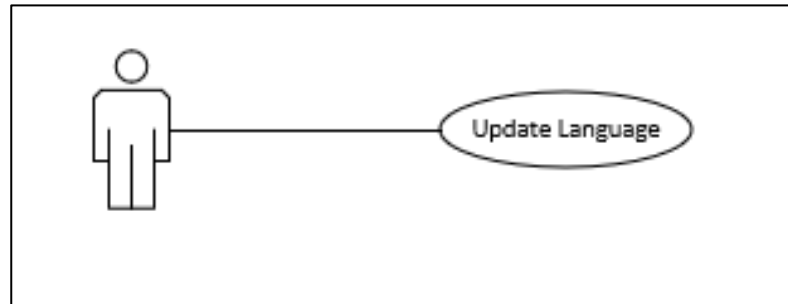


Figure 3.5 Update Language

Table 3.5 Update Language

Use Case ID	SRS_REQ-05-00
Brief Description	This use case is initiated by the admin. Its able update available to add new language
Actor	Event user by admin
Pre-Conditions	After login as admin
Basic Flow	<ol style="list-style-type: none"> 1. This use case begins when click edit button for language. 2. Select the new language from drop down list via refresh. 3. Sometime, the refresh is not available. <p>[SRS_REQ-03-01] C-1: Connection lost</p> <ol style="list-style-type: none"> 4. Then click add button to add a new language on drop down list. 5. After that click button save, if cancel the language not be display in drop down list. <p>[SRS_REQ-03-02] A-1: Cancel the add</p>



	<p>language</p> <p>[SRS_REQ-03-01] C-1: Connection lost</p> <p>7. After that click button save, but the language is not added to drop down list.</p> <p>[SRS_REQ-03-03] C-2: Maximum Slot Language</p>
Alternative Flow	<p>A-1: Cancel the add language</p> <p>2. Cancel button been clicked.</p>
Exception Flow	<p>E-1: Maximum slot language</p> <p>2. 4 slot are available</p>
Post-Conditions	Integration a new language with web browser
Rules	-
Constraints	<p>C-1: Connection lost</p> <p>Connection server lost</p> <p>C-2: Maximum Slot Language</p> <p>Slot Language : 4</p>
	<p>Refer Appendix</p> <p>A-2 :Activity Diagram</p>



3.1.6 Add Word

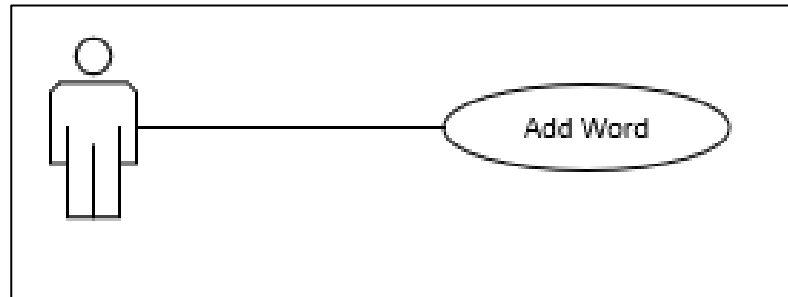


Figure 3.6 Add Word

Table 3.6 Add Word

Use Case ID	SRS_REQ-06-00
Brief Description	This use case is initiated by the admin. Its enable the add new word.
Actor	Event user by admin
Pre-Conditions	After login as admin and selected language
Basic Flow	<ol style="list-style-type: none"> 1. This use case begins when click edit button for word. 2. Insert a new word to box provided. 3. Then click add button to add new word add button 4. After that click button save, if cancel the word not be stored in database. <p style="text-align: center;">[SRS_REQ-06-01] A-1: Cancel the add word</p> <ol style="list-style-type: none"> 8. After that click button save, but the word is not stored in database. <p style="text-align: center;">[SRS_REQ-06-02] C-1: Connection lost</p>



Alternative Flow	A-1: Cancel the add word 3. Cancel button been clicked.
Exception Flow	-
Post-Conditions	Integration a new language with web browser
Rules	-
Constraints	C-1: Connection lost Connection server lost
Activity Diagram	Refer Appendix A-2 :Activity Diagram

3.1.7 Update Word

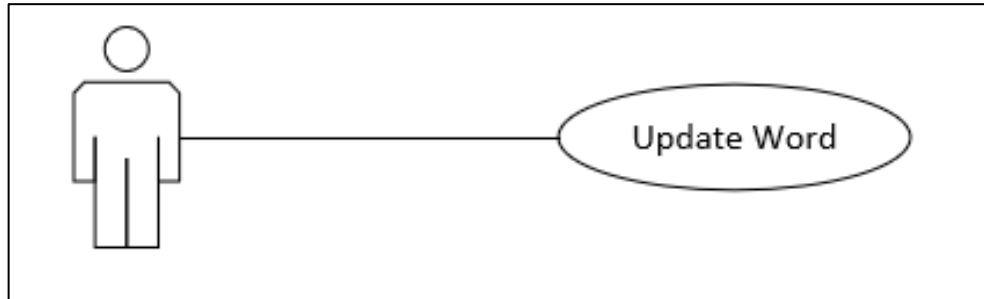


Figure 3.7 Update Word

Table 3.7 Update Word

Use Case ID	SRS_REQ-07-00
Brief Description	This use case is initiated by the admin. Its able update available to add new world
Actor	Event user by admin
Pre-Conditions	After login as admin , select language
Basic Flow	<ol style="list-style-type: none"> 1. This use case begins when click edit button for word. 2. Insert a new word to box provided. 3. The existing word not be deleted. <p style="text-align: center;">[SRS_REQ-07-01] A-1: Search word</p> <ol style="list-style-type: none"> 4. Then click add button to add new word add button 5. After that click button save, if cancel the word not be stored in database. <p style="text-align: center;">[SRS_REQ-07-02] A-2: Cancel the add word</p> <ol style="list-style-type: none"> 6. After that click button save, but the word is not stored



	<p>in database.</p> <p>[SRS_REQ-07-03] C-1: Connection lost</p> <p>[SRS_REQ-07-04] E-1: Maximum slot language</p>
Alternative Flow	<p>A-1: Search word</p> <ol style="list-style-type: none"> 1. Search existing word in database 2. Rework on existing word 3. Save the reword in database. <p>A-2: Cancel the add language</p> <p>Cancel button been clicked.</p>
Exception Flow	<p>E-1: Maximum slot language</p> <p>4 slot are available</p>
Post-Conditions	Integration a new language with web browser
Rules	-
Constraints	<p>C-1: Connection lost</p> <p>Connection server lost</p> <p>C-2: Maximum Slot Language</p> <p>Slot Language : 4</p>
	Refer Appendix



	A-2 :Activity Diagram
--	-----------------------



4. Requirements Traceability

No.	Requirement No.	Description
1	SRS_REQ-01-01	Reenter username and password the system will reenter the username and password
2	SRS_REQ-01-02	Several time not login, the system terminated access to system
3	SRS_REQ-01-03	Use case end.
4	SRS_REQ-01-04	Sensitive with 'Caps lock'
5	SRS_REQ-02-01	The word has been erased or cancel button been clicked.
6	SRS_REQ-02-02	Spelling is wrong or maximum character capacity
7	SRS_REQ-02-03	Maximum word capacity with word capacity is 50 words
8	SRS_REQ-03-01	Cancel button been clicked.
9	SRS_REQ-03-02	Maximum slot language is 4 slot are available
10	SRS_REQ-04-01	Cancel button been clicked.
11	SRS_REQ-04-02	Minimum slot language which contain at least 2 languages for integration
12	SRS_REQ-04-03	Connection server lost
13	SRS_REQ-05-01	Cancel the add language with cancel button been clicked.
14	SRS_REQ-05-02	Maximum slot language is 4 slot only are available.
15	SRS_REQ-05-03	Connection server lost



- 16 SRS_REQ-06-01 Cancel the add word where cancel button been clicked.
- 17 SRS_REQ-06-02 Connection server lost
- 18 SRS_REQ-07-01 Search existing word in database, rework on existing word and save the reword in database.
- 19 SRS_REQ-07-02 Cancel button been clicked.
- 20 SRS_REQ-07-03 Maximum slot language is 4 slot are available.
- 21 SRS_REQ-07-04 Connection server lost



5.0 DOCUMENT APPROVAL

	Name	Date
<p>Authenticated by:</p> <p>_____</p> <p>Developer</p>	<p>AMIRUL AMZAR</p>	
<p>Approved by:</p> <p>_____</p> <p>Client</p>		





APPENDIX C - SOFTWARE DESIGN DOCUMENT (SDD)

SOFTWARE DESIGN DOCUMENT (SDD)

Word Blocking Application on Android User

Generated By:

MOHD AMIRUL AMZAR BIN MOHD TALIB



1.0 DATA DICTIONARY

2.0 1.1.1 Registration for Word Block Application (WBA)

No	Attribute name	Attribute type	Attribute description	Constraint
1	name	varchar	name	
2	email	varchar	email	
3	phoneNo	varchar	phone Number	
4	password	varchar	password	
5	repassword	varchar	re-password	
6	username	varchar	username	PK

Table 1.1 : Registration for Word Block Application (WBA)

1.1.2 WBALogin

Table 1.2 : WBALogin

No	Attribute name	Attribute type	Attribute description	Constraint
1	username	varchar	username	PK
2	password	varchar	password	

1.1.3 WBACustomer

Table 1.3 : Registration for Word Block Application (WBA)

No	Attribute name	Attribute type	Attribute description	Constraint
1	search_id	varchar	number search id	PK

1.1.4 WBAAdmin

Table 1.4 : WBAAdmin (Language_ Class)

No	Attribute name	Attribute type	Attribute description	Constraint
1	add_lan	varchar	add language	
2	update_lan	varchar	update language	
3	lan_id	varchar	munber language id	PK

1.1.5 WBAAdmin

Table 1.5 : WBAAdmin (Word_Class)

No	Attribute name	Attribute type	Attribute description	Constraint
1	add_word	varchar	add word	
2	update_word	varchar	update word	
3	word_id	varchar	number of word id	PK

2 PREMINILARY DESIGN

2.1 SYSTEM ARCHITECTURE

In general, this chapter is about System Architecture Overview that has been used in this SDD, which is packages and the detailed description with list of function, classes in class diagram.

2.2 STATIC ORGANIZATION

Figure 2.1 Static Organization of Word Blocking Application

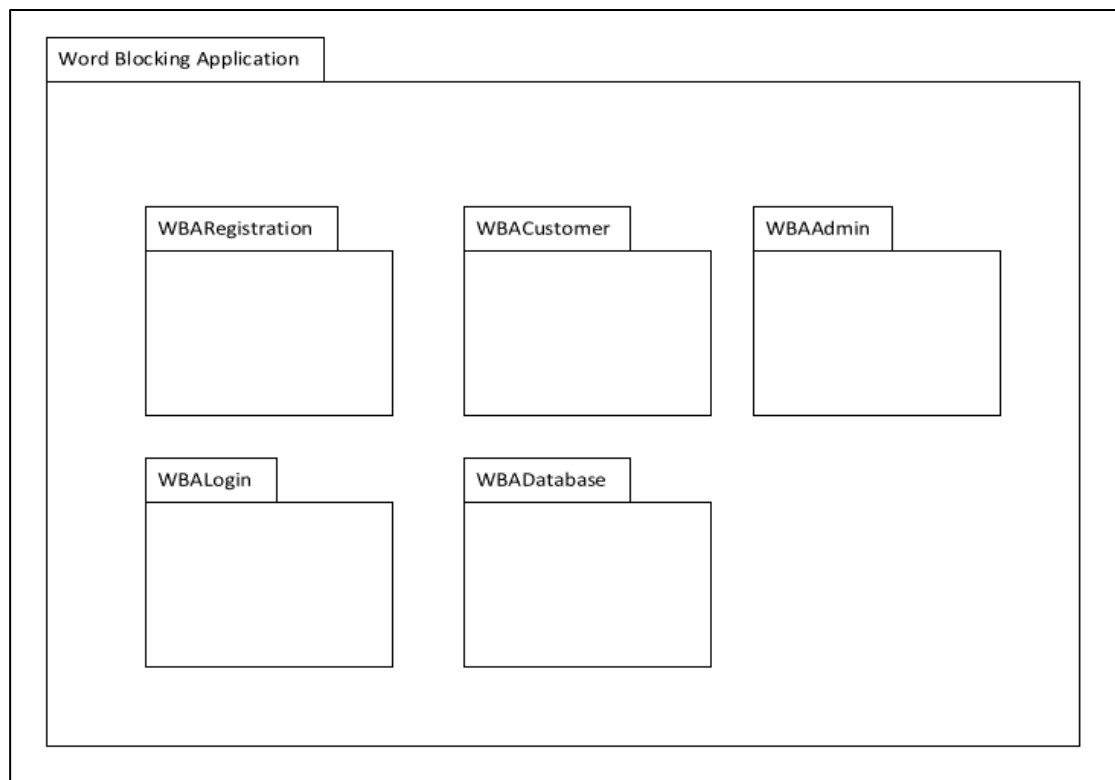


Figure 2.1 show that organization of word blocking application that available in this system. This section describes the detail for each package.

1. WBARegistration

This role of this subsystem is to control the information about user. This contain classes

- a) Registration_view

2. WBALogin

This role of this subsystem is to control the information about user. This contain classes

- a) Login_view class


3. WBACustomer

This role of this subsystem is to handle the search word by the customer. This contain classes

- a) Search class

4. WBAAdmin

This role of this subsystem is to manage language and word that required by user .
This contain 2 classes

- a) Language class
 - b) Word class
-
- 

5. WBADatabase

This package does' not have any classes. This packages just act as reuse database that consist many table

2.3 DYNAMIC ORGANIZATION

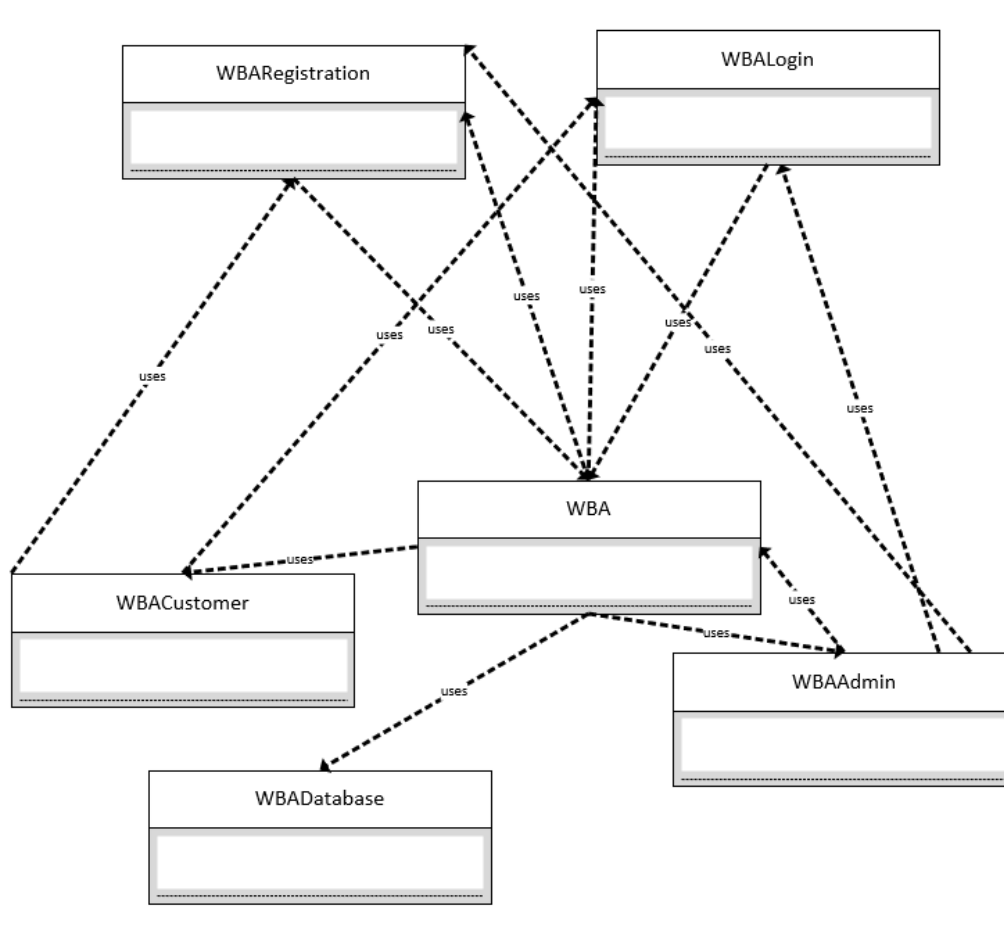


Figure 2.2 : Component and their relationship between each other in the system

Figure 2.2 show component and their relationship between each other in the system.

3 DETAILED DESIGN

3.1 WBARegistration

The purpose of this package is for customer and admin to key in their necessary information.

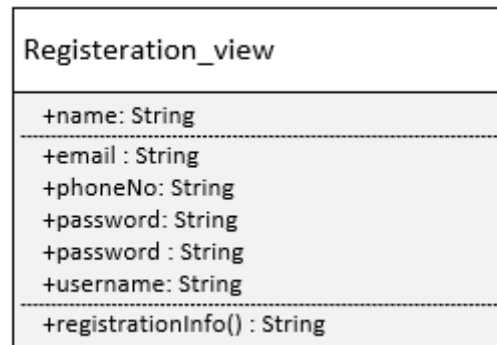


Figure 3 .1: Class diagram for Registration_view

In `Registration_view` class diagram, there is 8 attributes and 3 methods: name: This attributes is refer to student and industrial supervisor username.

- name: This attributes is refer to admin and customer name.
- email: This attributes is refer to admin and customer email
- phoneNo: This attributes is refer to admin and customer phone number.
- password: This attributes is refer to admin and customer password.

- repassword: This attributes is admin and customer to verify the password.
- username: This attributes is refer to admin and customer username.
- registrationInfo(): This method is use to verify and validate all the information before store it into WBADatabase.



3.2 WBA Login

The purpose of this package is for customer and admin to login into WBA system.

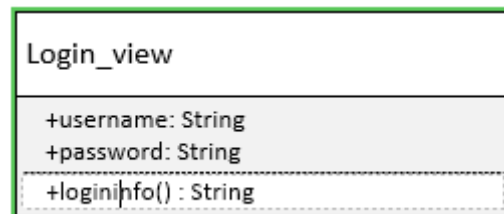


Figure 3.2: Class diagram for Login_View

In Login_View class diagram, there is 2 attributes and 1 methods:

- name: This attributes is refer to either student, industrial supervisor, faculty supervisor or coordinator username.
- password: This attributes is to either student, industrial supervisor, faculty supervisor or coordinator password.
- loginInfo(): This method is use to validate the the username and password with WBA Database of users either customer or admin before entering WBA system

3.3 WBA Customer

The purpose of this package is for customer into WBA system.

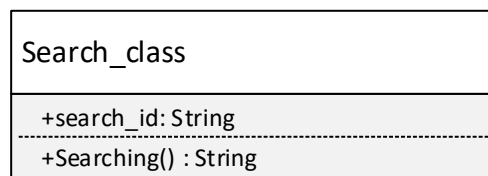


Figure 3.3: Class diagram for Search_class

In Search_class diagram, there is 1 attributes and 1 methods:

- search_id : This attribute is refer to the number of word are searched
- Searching(): This method is use for to searching word that enter by customer

3.4 WBAAdmin

3.4.1 Language_class

The purpose of this package is for admin into WBA system.

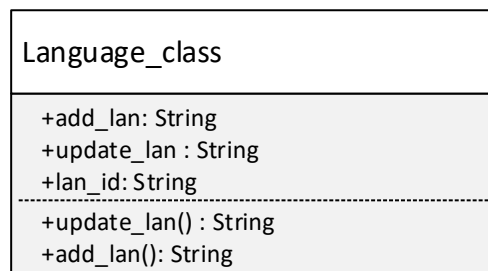


Figure 3.4: Class diagram for Registration_view

In Language_class diagram, there is 3 attributes and 2 methods:

- add_lan : This attribute is refer to the selected language are added
- update_lan : This attribute is refer to the selected language are update
- lan_id : This attribute is refer to the number of language available

- update_lan (): This method is use for to update language that selected by customer

- add_lan (): This method is use for to add language that selected by customer

3.4.2 Word_class

The purpose of this package is for admin into WBA system.

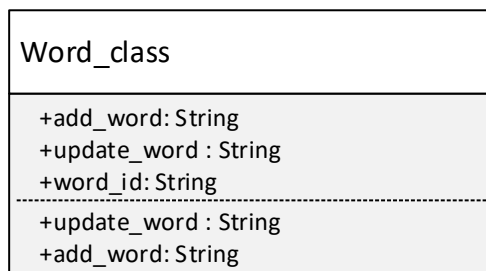


Figure 3.5: Class diagram for Word_class

In Word_class diagram, there is 3 attributes and 2 methods:

- add_word : This attribute is refer to the selected of word are added
- update_word : This attribute is refer to the selected of word are update
- word_id : This attribute is refer to the number of word available
- update_word (): This method is use for to update word that selected by customer
- add_word (): This method is use for to add word that selected by customer

4. SYSTEM DESIGN APPROVAL

	Name	Date
Authenticated by: _____ Developer	AMIRUL AMZAR	
Approved by: _____ Client		

APPENDIX C: USER ACCEPTING TESTING

USER ACCEPTING TESTING(UAT)

Word Blocking Application on Android User

Generated By:

MOHD AMIRUL AMZAR BIN MOHD TALIB



1. TESTING REPORT

The purpose of this section is to outline the User Acceptance Testing (UAT) process for the system. Approval of this testing implies that reviewers' are confident that following the execution of the test plan, the resulting system will be considered fully tested and eligible for implementation.

1.1. Authentication

Event	Test Data	Expected Result	Actual result	Pass / Fail	Comment
Register		Successfully registered, redirect to home.			
Register(admin)		Successfully registered, redirect to home.			
Login		Successfully logged in, redirect to home.			
Login (admin)		Successfully logged in, redirect to Update session.			

1.2. Add, Delete & Update Words

Event	Test Data	Expected Result	Actual result	Pass / Fail	Comment
Update		Successfully update if validation succeed.			
Add		Successfully update if validation succeed.			
Delete		Successfully update if validation succeed.			

1.3. Add, Delete & Update Language

Event	Test Data	Expected Result	Actual result	Pass / Fail	Comment
Update		Successfully update if			



		validation succeed.			
Add		Successfully update if validation succeed.			
Delete		Successfully update if validation succeed.			



5. USER ACCEPTING APPROVAL

	Name	Date
<p>Authenticated by:</p> <p>_____</p> <p>Developer</p>	<p>AMIRUL AMZAR</p>	
<p>Approved by:</p> <p>_____</p> <p>Client</p>		



APPENDIX D: USER MAUAL

USER MANUAL

Word Blocking Application on Android User

Generated By:

MOHD AMIRUL AMZAR BIN MOHD TALIB



1. GENERAL INFORMATION

1.1. System Overview

Application word block for android user is a mobile that is mainly to protect our children usages on phone. Parent also allows their users to do such thing:

- Register or Log In into Application word block for android user.
- Notify usage of children on phone

2. SYSTEM SUMMARY

2.1. System Configuration

Application word block for android user is mobile application that can be surfing or browsing internet. This application need API 23 for using this app.

2.2. User Access Levels


Application word block for android user have three access levels:

- Parent - Can do parental control long as the user is sign up
- Administrator - Can perform administrator tasks such as managing the user

account, language management and words management.

2.3. Contingencies and Alternate Modes of Operation

Since Application word block for android is an online system, there would not be any issues regarding data loss unless it is the users' mistake for not triggering the save event by the time



of any issues happen. In case of the browser did no support the system, users can always try another browser to use the system. The most recommended browser would be Google Chrome and Mozilla Firefox since both of these browsers was used during the testing period of the system.

3. GETTING STARTED

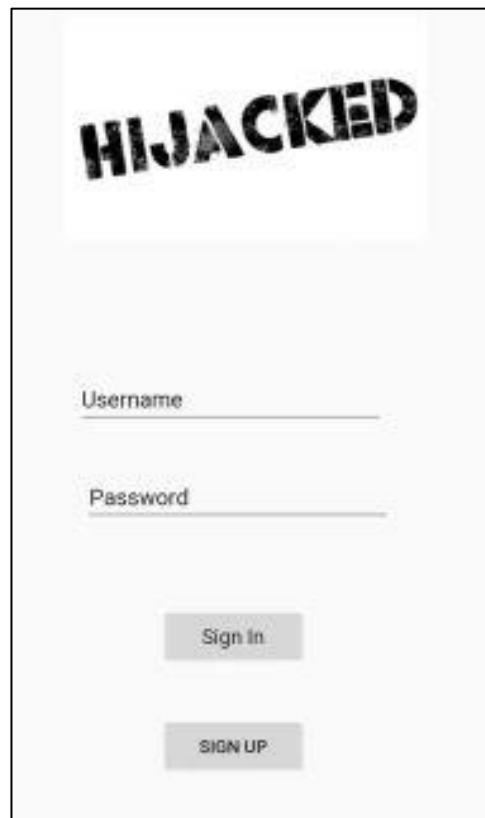
3.1. Opening the System



- a. Application word block for android can be opened by using any web browser
- b. If successfully, the Application word block for android website will load and ready to be used.



3.2. Registering or Logging In



The image shows a web form for logging in or registering. At the top, there is a large, bold, black text 'HIJACKED' on a white background. Below this, there are two input fields: 'Username' and 'Password'. Under the 'Password' field, there is a small red asterisk indicating a required field. At the bottom of the form, there are two buttons: 'Sign In' and 'SIGN UP'.

- a) Once opened, any user with existing account can directly log in into the system let the system run.
- b) If the user does not have an account then click “Register” to create a new account.
- c) Enter required information and you will be redirected to the home once the registration is completed.

3.3. Editing and Updating Words and Language



- a) Words and Language can be edit by clicking on your username (admin) at admin session
- b) At the bottom of the profile page, there is a button called "Update Words" where you will be redirected to another page that allows you to edit or add your language information.

Reference

Top 10 Porn Blocking Apps 2018. (n.d.). Retrieved March 07, 2018, from https://www.spyzie.com/block/top-porn-blocking-apps.html#part_1

Ruxyn, T. (2018, January 30). Malaysia Is The Top Consumer Of Online Child Pornography In Southeast Asia. Retrieved March 09, 2018, from <http://says.com/my/news/malaysia-is-top-for-online-child-pornography-in-south-east-asia>

