

FINAL YEAR PROJECT (FYP) PRESENTATION
TIMETABLE

NUR ASMIRA BINTI MD NOR

BACHELOR OF COMPUTER SCIENCE

UNIVERSITI MALAYSIA PAHANG



SUPERVISOR'S DECLARATION

I hereby declare that I have checked this thesis and in my opinion, this thesis is adequate in terms of scope and quality for the award of the degree of Bachelor of Computer Science (Software Engineering).

(Supervisor's Signature)

Full Name : DR. ADZHAR BIN KAMALUDIN

Date :



STUDENT'S DECLARATION

I hereby declare that the work in this thesis is based on my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any other degree at Universiti Malaysia Pahang or any other institutions.

(Student's Signature)

Full Name : NUR ASMIRA BINTI MD NOR

ID Number : CB15145

Date :

FINAL YEAR PROJECT PRESENTATION TIMETABLE

NUR ASMIRA BINTI MD NOR

Thesis submitted in fulfillment of the requirements
for the award of the degree of
Bachelor of Computer Science (Software Engineering)

Faculty of Computer System & Software Engineering

UNIVERSITI MALAYSIA PAHANG

DECEMBER 2018

ACKNOWLEDGEMENTS

I would like to express my thankfulness to all who have given me the motivating in completing this report. Special appreciations to my supervisor, Dr. Adzhar bin Kamaludin for guiding and gave opinions in all time during finishing my project and during process of writing this report. Truly thanks for gave a consolation and advice to improve all the mistaken.

Moreover, I also would like to recognize with all my instructors and friends, who gave me their full help and supports me during completing this report. A special gratitude goes to my course mates, who help me in finishing this report by investing energy for talking and gave an counsel to fixed all the mistakes.

ABSTRACT

Final Year Project Presentation Time Table is a web based for UMP resident who are involve on Final Year Project. The purpose of this system have been developed is for PSM students, PSM supervisor, PSM coordinator and PSM examiner easily access their presentation time table for evaluation day. Before this system have being develop, the PSM coordinator required to assign the examiner for the each student and supervisor. The processes of the presentation time table have being done manually using Microsoft Excel. This system being develop is to enhance the current process of presentation time table. This system is providing the student, supervisor and examiner to view the time table. This system will help the coordinator in managing the presentation time table for student and lecturer.

ABSTRAK

Jadual Pembentangan Projek Akhir Tahun merupakan system yang berasaskan web untuk masyarakat UMP yang terlibat dalam Projek Akhir Tahun. Tujuan system ini dibangunkan adalah untuk memudahkan pelajar, penyelia, penyelaras dan penilai untuk mengakses jadual waktu pembentangan mereka untuk hari penilaian. Sebelum system ini dibangunkan, penyelaras PSM hendaklah menetapkan penilai kepada pelajar secara manual menggunakan Microsoft Excel. Sistem ini menyediakan kemudahan kepada pelajar, penyelia dan penilai untuk memeriksa jadual mereka. Sistem ini juga membantu penyelaras dalam menguruskan jadual kepada pelajar dan pensyarah.

TABLE OF CONTENT

DECLARATION	
TITLE PAGE	
ACKNOWLEDGEMENTS	ii
ABSTRACT	iii
ABSTRAK	iv
TABLE OF CONTENT	v
LIST OF TABLES	viii
LIST OF FIGURES	ix
LIST OF ABBREVIATIONS	x
CHAPTER 1 INTRODUCTION	1
1.1 Introduction	1
1.2 Problem Statement	2
1.3 Objective	3
1.4 Scope	3
1.5 Significance	3
1.6 Thesis Organization	4
CHAPTER 2 LITERATURE REVIEW	5
2.1 Introduction	5
2.2 Overview	6

2.3	Review of Existing Algorithm Techniques	7
2.4	Comparison between Three Techniques	11
2.5	Conclusion	12
CHAPTER 3 METHODOLOGY		13
3.1	Introduction	13
3.2	Rapid Application Development (RAD) Methodology	14
3.2.1	Requirement Phase	15
3.2.2	System Design Phase	15
3.2.3	Development Phase	17
3.2.4	Cutover Phase	18
3.3	Hardware and Software	19
3.3.1	Software	19
3.3.2	Hardware	20
3.4	Gantt Chart	20
3.5	Implementation	20
CHAPTER 4 RESULT AND DISCUSSION		21
4.1	Introduction	21
4.2	Implementation	21
4.2.1	Development Environment	21
4.3	Testing and Result Discussion	25

CHAPTER 5	CONCLUSION	26
5.1	Introduction	26
5.2	Project Constraint	26
5.3	Future Work	27
5.4	Conclusion	27
REFERENCES		28
APPENDICES		29
Appendix A		29
Appendix B		32
Appendix C		33
Appendix D		34
Appendix E		35

LIST OF TABLES

Table 2.1 Comparison between three techniques	11
Table 3.1 List of Software Items	19
Table 3.2 List of Hardware Items	20

LIST OF FIGURES

Figure 2.1 Simulated annealing and hill climbing stages algorithms.	8
Figure 2.2 Hybrid algorithms for uncapacitated benchmarks.	8
Figure 2.3 Hybrid algorithms for capacitated benchmarks.	8
Figure 2.4 Algorithms for automatically generate the timetable.	9
Figure 2.4 Algorithms for automatically generate the timetable.(continue)	9
Figure 3.1 Rapid Application Development Phase	14
Figure 3.2 Use Case for FYP Presentation Time Table	16
Figure 3.3 Context Diagram for FYP Presentation Time Table	17
Figure 3.4 FYP Presentation Time Table Development Phase in RAD	18
Figure 4.1 XAMPP Control Panel	22
Figure 4.2 phpMyAdmin Page	22
Figure 4.3 Database Connection	23
Figure 4.4 Sublime Text interface	24
Figure 4.5 FYP Presentation Timetable Login Page	24

LIST OF ABBREVIATIONS

FYP	Final Year Project
UMP	Universiti Malaysia Pahang
PSM	Projek Sarjana Muda
SDLC	Software Development Life Cycle
RAD	Rapid Application Development
UML	Unified Model Language

CHAPTER 1

INTRODUCTION

1.1 Introduction

Final Year Project (FYP) Presentation Timetable is the web based system for students at Universiti Malaysia Pahang (UMP) who are taking their final year project. This web based system is provided for the supervisor, examiners, and student to view their presentation schedule for final year project. The users need to login into the system before they can view their schedule. Students and supervisor are only can view their final presentation schedule. Besides that, supervisor is not allowed to evaluate the student under him or her on the evaluation day but supervisor can be an examiner to evaluate other students. Each student is required to be evaluated by two different examiners.

Examiner role in this system is to view the list of students who will be evaluated on the evaluation day that have set by the coordinator. Examiners are required to evaluate the students on the evaluation day.

Coordinator will assign the examiner to each student. Coordinator also can view the availability of students, supervisor and examiners.

1.2 Problem Statement

Before the invention of FYP Presentation Timetable, students are given the hardcopy of the presentation schedule before the presentation day by the coordinator. Supervisor and examiners also are given the schedule and list of students that they need to be evaluated.

During the presentation day, each student will be evaluated by two examiners. The examiners are required to evaluate the students. Both of the examiners need to avoid their evaluation process from clash between each other. On that day, supervisor is not allowed to evaluate their own students but the supervisor can be an examiner for another student.

Therefore, FYP Presentation Timetable is requiring developing a system that will manage the schedule for examiner, supervisor and student during the presentation day. This system will manage the list of student to be evaluated to the examiners and supervisor and provide the different time for examiner to evaluate the students. This system also will help the supervisor to know the student that are under them and the supervisor cannot evaluate their own student during the presentation day. The coordinator can view both of the examiner and student presentation schedule and examiner also required to manage their schedule.

1.3 Objective

During the development of this system, the objectives that need to be applying are:

- i. To identify the current issues and problems in producing the FYP Presentation Timetable.
- ii. To apply timetable algorithm in producing FYP Presentation Timetable.
- iii. To automated related process in completing the generating of FYP Presentation Timetable.

1.4 Scope

i. System User

There are four users which is coordinator, supervisor, examiner and student that are required to access this system.

ii. Function

The function of this system is to manage the presentation schedule during the evaluation day. This system also provides the coordinator to know the available time of examiner and supervisor for evaluation process. This system also not allowed the supervisor to evaluate their students.

1.5 Significance

The important of this FYP Presentation Timetable will provide the users to easily access their schedule without having the hardcopy and the time management of the users also will be organized.

REFERENCES

1. SDLC – Waterfall Model. Tutorialspoint.com. Retrieve from https://www.tutorialspoint.com/sdlc/sdlc_waterfall_model.htm
2. SDLC – Agile Model. Tutorialspoint.com. Retrieve from https://www.tutorialspoint.com/sdlc/sdlc_agile_model.htm
3. SDLC – RAD Model. Tutorialspoint.com. Retrieve from https://www.tutorialspoint.com/sdlc/sdlc_rad_model.htm
4. Learning MVC in PHP. Medium.com. Retrieve from <https://medium.com/@thejasonxie/learning-mvc-in-php-7593872a89a8>
5. PHP Tutorial. W3Schools.com. retrieve from <https://www.w3schools.com/php/>
6. Merlot, L., Boland, N., Hughes, B., & Stuckey, P. (2003). A Hybrid Algorithm for the Examination Timetabling Problem. *Practice and Theory of Automated Timetabling IV*, 2740, 207–231.
7. Moreira, J. J. (2008). A system for automatic construction of exam timetable using genetic algorithms. *Tékhnē-Revista de Estudos Politécnicos*, 1–12. Retrieved from http://www.scielo.oces.mctes.pt/scielo.php?pid=S164599112008000100017&script=sci_arttext&lng=en
8. Nanda, A., Pai, M. P., & Gole, A. (2012). An Algorithm to Automatically Generate Schedule for School Lectures Using a Heuristic Approach. *International Journal of Machine Learning and Computing*, 2(4), 492–495. <https://doi.org/10.7763/IJMLC.2012.V2.174>