## KNOWLEDGE PORTAL FOR HANDICRAFT PRODUCTS (KM)

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#### **ABSTRAK**

Pengetahuan adalah penting dalam kehidupan. Ia adalah termasuk pengalaman dan data dalam jangka mengubah jenis format media. Sistem Pengurusan pengetahuan digunakan untuk membuat, menyimpan, berkongsi dan menggunakan pengetahuan bagi orang yang tepat pada masa yang betul. Kraftangan adalah semangat budaya. Portal pengetahuan untuk Produk Kraftangan adalah satu titik akses tunggal kepada pengetahuan kraftangan. Model kaedah yang digunakan dalam membangunkan portal ini ialah metodologi lelaran dan tokokan. Kajian semula sistem yang sedia ada dan sesi temu bual telah dijalankan untuk mengumpul data berkenaan untuk produk kraftangan. Ujian fungsian digunakan untuk menguji fungsi portal ini adalah memenuhi keperluan pengguna. Portal ini diuruskan oleh Jabatan Pertanian Negeri Pahang. Pakar kraftangan boleh memberi nasihat. Ahli perniagaan kraftangan boleh mempromosikan produk mereka dan pengguna berdaftar juga boleh memberi komen pada forum. Portal ini boleh membantu untuk menyelesaikan kekurangan platform komunikasi dalam masa pengguna. Temu bual dengan ahli perniagaan dan pakar dijalankan untuk mengumpul pengetahuan dan pengalaman daripada mereka. Kajian semula sistem sedia ada adalah membantu untuk mengenal pasti isu-isu semasa sistem yang sedia ada dan menggunakan teknologi baru-baru ini Portal Pengetahuan Produk Kraftangan dijangka untuk meningkatkan produktiviti produk kraftangan di Pahang negeri dan Malaysia. Ia juga membantu untuk mengenal pasti pakar-pakar kraftangan untuk berkongsi pengetahuan dengan pengguna. Motivasi dari pengguna dalam perkongsian pengetahuan adalah penting untuk mencapai objektif portal pengetahuan ini.



#### **ABSTRACT**

Knowledge is important in life. It is include experience and data in term of vary types of media format. Knowledge Management System is used to create, store, share and use knowledge for right people at the correct time. Handicraft is the spirit of cultural. Knowledge Portal for Handicraft Products is a single access point to the handicraft knowledge. The methodology model that used in developing this portal is iterative and incremental model. Review existing system and interview session was conducted to collect data regarding to the handicraft products. Functional testing is used to test the functional of the portal is fulfil user requirements. This portal is managed by Jabatan Pertanian Negeri Pahang. Handicraft expert may give advices. Handicraft businessman can promote their product and registered user also can comment at the forum. It can help to solve lack of communication platform within users. Interview with the businessman and expert is conducted to collect the knowledge and experiences from them. Review of the existing system is help to identify the current issues of the existing system and technology using recently Knowledge Portal for Handicraft Products is expected to increase the productivity of handicraft products in Pahang state and Malaysia. It is also help to identify handicraft experts to share knowledge with users. Motivation of users in sharing knowledge is important to achieve the objectives of this knowledge portal.



## TABLE OF CONTENTS

Page
SUPERVISOR'S DECLARATIONiii
STUDENT'S DECLARATIONiv
ACKNOWLEDGEMENTSv
ABSTRAKvi
ABSTRACTvii
TABLE OF CONTENTSviii
LIST OF TABLESx
LIST OF FIGURESx
LIST OF APPENDICESxii
CHAPTER 1
1.1 Background
1.2 Problem Statement and Motivation
1.3 Objectives
1.4 Scopes
1.4.1 System scopes
1.4.2 User scopes
1.5 Contribution to the Handicraft field
1.6 Project Thesis Organization
CHAPTER 2 6
2.1 Existing System Review
2.1.1 Official Website of the Pahang Agriculture Department (Laman Web Rasmi Jabatan Pertanian Negeri Pahang)
2.1.2 Official Portal of Malaysian Handicraft Development Corporation (Portal Rasmi Perbadanan Kemajuan Kraftangan Malaysia)
2.1.3 Portal of World Handicraft Organization
2.1.4 Yemen Handicraft Website
2.1.5 Comparison between Existing Systems
2.2 Techniques/Equipments/Technology/Software models
2.2.1 Web Applications

2.2.2	Knowledge Management	18
2.2.3	Knowledge Management Systems	18
2.2.4	Knowledge Portals	19
2.2.5	Handicraft products	19
2.2.6	Operating systems	20
2.2.7	Web browser	21
2.2.8	Content Management System Software	<b>2</b> 3
2.2.9	Tools for create dynamic and interactive Web pages	25
2.2.10	Database language	27
2.2.11	Web server	30
2.2.12	Software Development Models	31
2.3 Sur	nmary for Chapter II	36
CHAPTER 3	3	38
3.1 Iter	ative and Incremental Methodology and Model	38
	e justification of the chosen Methodology: Iterative and Incremental	
Developm	ent Methodology	40
3.3 Pha	ses/Stages of Iterative and Incremental Development Methodology	40
3.3.1	Planning phase	
3.3.2	Requirement phase	41
3.3.3	Analysis and Design phase	
3.4 Sys	tem Requirement	54
3.4.1	Hardware Requirements	54
3.5 Sof	tware Requirements	55
	nmary for Chapter III	
CHAPTER 4	1	56
4.1 Impler	mentation	56
4.1.1 Da	ntabase design	56
4.1.2 Da	nta dictionary	57
4.1.3 Us	ser interface design and relevant source code	70
4.2 Testing	g	80
4.2.1 M	anual Functional Testing	80
4.2.2 Cl	ient Side Testing	98
4.3 Result	Analysis	98
4.4 Projec	t Limitation	99
4.5 Sugges	stion and Project Enhancement	100

CHAPTER 5		102
5.1 Project Sumr	nary	102
AFFENDICES		110
LIST OF TABLE	S	
Table No.	Title	Page
	rison between Existing Systems	
	rison between Linux, Windows and Mac	
	rison between web browsers	
	rison setup and maintenance cost between Joomla!, Druj	
	ison setup and maintenance cost between Joonna:, Did	
	ison between ASP.NET, PHP and JSP	
	rison between MySQL and Oracle	
	rison between Apache and IIS	
	ison between Waterfall Model, Spiral Model, V-shaped	
	re needed in this project	
	e needed in this project	
	ses for navigation module	
	ses for login module	
	ses for register module	
	ses for upload module	
	ses for download module	
	ses for forum module	
	ses for control manager	
1 abic 4-7. 1 est eas	es for control manager	
LIST OF FIGURI	ES	
Figure No.	Title	Page
	y	
	s story	
	pages	
	raft field	
	activity	
	pages	
	s Handicraft Products	
	Web architecture	
	all Model	
•	Model	
	ped Model	
	ve Model and Incremental Model	
	m of the Iterative and Incremental Development Model	
	ow of Development of Knowledge Portal for Handicraf	
Figure 3-3: Use cas	se diagram for forum module	43
Figure 3-4: Use cas	se diagram for forum module se diagram for non existing user's registration	43
11gaic 5 4. 050 cas	nitro	orofession

Figure 3-5: Use case diagram for user login.	44
Figure 3-6: Use case diagram for user management	
Figure 3-7: Use Case diagram for user update profile	
Figure 3-8: Use case diagram for admin generate report on handicraft products	
Figure 3-9: Use case diagram for Process of making handicraft products	
Figure 3-10: Use case diagram for Risk as a businessman profile	
Figure 3-11: Use case diagram for Success story of businessman	
Figure 3-12: Use case diagram for Journal/Papers about handicraft products	
Figure 3-13: Use case diagram for marketing strategy	
Figure 3-14: Use case diagram for Handicraft history profile	
Figure 3-15: Use case diagram for SDSI.	
Figure 3-16: Use case diagram for Organization information	
Figure 3-17: Use case diagram for News	48
Figure 3-18: Use case diagram for Announcement	
Figure 3-19: Use case diagram for Event calendar	
Figure 3-20: Use case diagram for about us	
Figure 3-21: Use case diagram for Directory profile	
Figure 3-22: Use case diagram for photo gallery management	
Figure 3-23: Use case diagram for Handicraft promotion profile	
Figure 3-24: Use case diagram for Handicraft products order management	
•	
Figure 3-25: ERD diagram for KPHP	
Figure 4-1: Create database	
Figure 4-3: Data Dictionary for Announcement table	
Figure 4-4: Create calendar_event database table	
Figure 4-5: Data Dictionary for calendar_event table	
Figure 4-6: Create database table for categories	
Figure 4-7: Data Dictionary for categories table	
Figure 4-8: Create database table for expertshare	
Figure 4-9: Data Dictionary for expertshare table	
Figure 4-10: Relation view for expertshare table	
Figure 4-11: Create database table for file	
Figure 4-12: Data Dictionary for file table	
Figure 4-13: Create database table for news	
Figure 4-14: Data Dictionary for news table	
Figure 4-15: Create database table for posts	
Figure 4-16: Data Dictionary for posts table	
Figure 4-17: Relation view for posts table	
Figure 4-18: Create database table for product ategory	
Figure 4-19: Data Dictionary for product category table	
Figure 4-20: Create database table for productlocation.	
Figure 4-21: Data Dictionary for productlocation table	
Figure 4-22: Create productbusiness database table	
Figure 4-23: Data Dictionary for productbusiness table	
Figure 4-24: Relation view for productbusiness table	
Figure 4-25: Create productsinfo table	
Figure 4-26: Data Dictionary for productsinfo table	
Figure 4-27: Create database table for sdsi	
Figure 4-28: Data Dictionary for sdsi table	65



Figure 4-29: Create database table for slideimages	65
Figure 4-30: Data Dictionary for slideimages table	
Figure 4-31: Create database table for sstory	
Figure 4-32: Data Dictionary for sstory table	
Figure 4-33: Relation view for sstory table	
Figure 4-34: Create database table topics	
Figure 4-35: Data Dictionary for topics table.	
Figure 4-36: Create usercat database table	
Figure 4-37: Data Dictionary for usercat table	
Figure 4-38: Create database table for users	
Figure 4-39: Data Dictionary for users table	
Figure 4-40: Relation view for users table	
<u> </u>	
Figure 4-41: Configuration of database for this knowledge portal	
Figure 4-42: User interface for login page	/ L 1: 1
Figure 4-43: Compare the user category enter by registered user which login with va	
username and password	/ 1
Figure 4-44: Select the user data from users table by comparing the user_name with	
session user_name	
Figure 4-45: Select data from news table descending order by date limit to the latest	
rows of data	72
Figure 4-46: Insert data into announcement table by using POST method. The date	
format is arranged according to the database format. Else it will display error	73
Figure 4-47: User Interface for admin control manager to manage the functionalities	of
the knowledge portal.	
Figure 4-48: Select data from topics and posts table which is contribute for the forum	1
data	
Figure 4-49: Control Manager to view and delete forum list, categories, topics and	
	75
Figure 4-50: Admin allow delete the posts from users from forum if he/she found that	ıt
the post was not relevant.	
Figure 4-51: User Interface that shows adds SDSI record	
Figure 4-52: User Interface that show delete SDSI record by tick the check box and	
click Delete button.	76
Figure 4-53: Admin update his personal information	77
Figure 4-54: Admin add users.	
Figure 4-55: Admin delete users.	
Figure 4-56: Research paper list that allow for download	
Figure 4-57: Admin add event at the calendar and can view by users	
· ·	
Figure 4-58: Admin upload and view the image into server folder.	
Figure 4-59: Privileges options in local host	99
LIST OF APPENDICES	
Appendix A : Gantt chart	110
Appendix B: Flowchart of the Knowledge Portal	
Appendix C: Context diagram of Knowledge Portal for Handicraft Products	
	112
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	



#### **CHAPTER 1**

#### INTRODUCTION

This chapter briefly describes the Knowledge Portal for Handicraft Products that will be developed later. It will describe background, problem statement, research objectives and scope for this project. The last part will explain the thesis organization.

## 1.1 Background

Knowledge Management System (KMS) is a system which managing knowledge (creating, storing, sharing and using) for the benefits of people and community (Ni et al., 2010). It will be two ways communication between contributors and users. According to Li and Dong (2008), knowledge Portal (KP) is one point access software system which supports easy access to the information and practices communities of knowledge people who share same targets. Knowledge Portal Pertanian is a portal for manage knowledge of farmers to facilitate knowledge creation, storing, sharing and usage. While Knowledge Portal for Handicraft Products is one of the sub portals for the Knowledge Portal Pertanian. It is includes the collections of handicraft's knowledge from farmer on how to handle a situation and their practical experiences on this field and research from expert. It can advice especially for young farmers to avoid themselves from repeat the same mistakes and learn how to become a success handicraft businessman. Jabatan Pertanian Negeri Pahang (Portal Jabatan Pertanian Negeri Pahang, n.d.) is one of the contributors which also administer for Knowledge Portal Pertanian. Administer will manage this portal to make sure all the knowledge and information that share at portal is updated and trusted.



Handicraft is a product that has artistic or traditional cultural attraction that requires proper technique and creative. So far there is limited portal that allow users sharing their knowledge and experiences on specific handicraft products. This cause new generation lack of handicraft knowledge and less interesting on the handicraft field. Besides, without proper techniques and good marketing strategies, many problems will occur on the handicraft business, especially those are new to handicraft field. So, Knowledge Portal for Handicraft Products had proposed as one of the modules in the Knowledge Portal Pertanian.

Knowledge Portal for Handicraft Products is a portal that can be share knowledge and experiences between experts and the handicraft makers, especially fresh handicraft learners in Pahang state. It is provide the knowledge from worldwide on the handicraft field. For the people who is interesting on sharing their knowledge and experience on the handicraft field will need to register as members first to enhance the information shared is trusted. There will be have expert profile, handicraft businessman profile and various types of handicraft product profile. The experts mostly are government or private organization that related to the handicraft field, such as Rubber Industry Smallholders Development Authority (RISDA) (Portal Jabatan Pertanian Negeru Pahang, n.d.) and Perbadanan Kemajuan Kraftangan Malaysia (Portal Perbadanan Kemajuan Kraftangan Malaysia, n.d.). Uses of rubber leaves as handicraft carried out entirely by the Perkumpulan Wanita Pekebun Kecil (PWPK) (Portal Rasmi Pihak Berkuasa Kemajuan Pekebun Kecil Pulau Pinang, n.d.). Besides, Perbadanan Kemajuan Kraftangan Malaysia also is the authority which manages the development of the handicraft field in Malaysia. In addition, handicraft businessman can share their success stories and promote their products at their own profiling at portal. Various type of handicraft product profile will be updated by administration. Inside the process making of handicraft product profile will explain the detail steps for making process (photo or video), for example how to design batik. Members can share their techniques on how to make a handicraft there. Administration can remove the outdated information that share at portal and reject the irrelevant information that created by members. Besides, administration can upload the documentation about handicraft field to the portal, for example news, journal, and papers about the specific products. In the portal will have discussion forum where members can hold conversation in the form of posted

message. They can read the forum without login. But users need to log in order to post messages at the forum to make sure they are the members of this portal. Marketing strategies (information of suppliers, e-commerce and others) will be share at the portal. There is an opportunity for those are first time contributing to handicraft field.

#### 1.2 Problem Statement and Motivation

There are many limitation of the existing portal especially in sharing user's knowledge and their experiences on specific handicraft products. This cause new generation lack of handicraft knowledge and less interesting on the handicraft field. Besides, without proper techniques and good marketing strategies, many problems will occur on the handicraft business, especially those are new to handicraft field. However, not many suitable platforms for those are interested in handicraft field to voice their problems with peer besides the government authority. To this, Knowledge Portal for Handicraft Products is proposed to solve the problems.

## 1.3 Objectives

The project embarks the following objectives:

- i. Develop Knowledge Portal for Handicraft Products (KPHP).
- ii. Apply knowledge management concept for the portal in the part of create, store, use and share information and knowledge and implement it in web based system.
- iii. Enhance the platform for two ways communication between experts and the handicraft businessman. Handicraft experts, businessman, and people who are interesting /involved in the handicraft field may create store or share their knowledge and experiences to help each others in the forum. It also provide success story of handicraft businessman to encourage freshman contribute in handicraft field and provide handicraft product information and the general step to make it.

## 1.4 Scopes

The scopes are consists of system scopes and user scopes.

## 1.4.1 System scopes

The scopes of this system are:

- i. Develop specially for handicraft field in Pahang state and discovers the handicraft field in worldwide to share with users.
- ii. The system will equipped features as below:
  - a. Knowledge bank, such as articles in journal, conference proceeding, magazine, book, newspaper and etc.
  - b. Forum
  - c. News
  - d. Tips how to be a success handicraft businessman
  - e. Yellow pages that include the supplier profile and handicraft businessman profile.
- iii. Communication platform for:
  - a. Expert profiling to share their research on handicraft.
  - b. Handicraft businessman profiling to share their success story and promote their products.
  - c. Handicraft product profiling to store general information on handicraft product.

### 1.4.2 User scopes

The user scopes in this project are:

- i. Jabatan Pertanian Negeri Pahang
- ii. Handicraft Expert
- iii. Handicraft businessman
- iv. People who are interesting on the handicraft.

#### 1.5 Contribution to the Handicraft field

The contribution this thesis to the handicraft field is this proposed knowledge portal can collect the knowledge from human by allow us create, store and share the handicraft knowledge at the Knowledge Portal for Handicraft Products. This also enhance the communication between experts and users who interesting on handicraft field. It becomes a medium to share and solve problem on handicraft together.

## 1.6 Project Thesis Organization

This thesis consists of six chapters. Before Chapter 1, abstract will be written on the beginning of this thesis as the thesis summary to help the reader quickly understand this project's purpose. Chapter 1 will discuss the introduction on the project that will be developed later. Chapter 2 will explain about the reviews for the project. All references will be listed clearly in the references' list to keep the originality of the thesis. Chapter 3, methodology, it is describes the approach and framework of the project. The explanations about the method, technique or approach that will be used while designing and implementing this project are included in Chapter 3. Besides, the detailed design of the Handicraft knowledge portal will be describes at the Chapter 4. Chapter 4 also will explain the result and data analysis that had been acquired. This chapter also will state the testing techniques, project limitation and our suggestion on enhance usability of this project. Finally, Chapter 5 is briefly summarized about this developed project. Appendices will be added after the last chapter of this project. There will be consists of Gantt chart, user manual, and other relevant document.

#### **CHAPTER 2**

#### LITERATURE REVIEW

This chapter make conclusion on the review of existing systems and its applied techniques related with Knowledge Portal for Handicraft Products that will be developed later. It is comprised two sections which are the first section discussing the comprehensive review on existing related systems, while the second section is explain the review on techniques, web technologies, tools and software development models previously used in the same domain with this project.

## 2.1 Existing System Review

This section is used to review the current system and the existing portal that related to handicraft products.

# 2.1.1 Official Website of the Pahang Agriculture Department (Laman Web Rasmi Jabatan Pertanian Negeri Pahang)

In this official websites, there is lack of information about handicraft product that made by rattan, bamboo or any farm handicraft product. Although there have update information about Industri Asas Tani businessman information but there is lack of platform to allow farmers and users sharing their problems or knowledge on the handicraft product (Laman Web Rasmi Jabatan Pertanian Negeri Pahang, n.d.). Refer to the Figure 2-1 and 2-2. Figure 2-1 is the picture about the activities held for Official Website of the Pahang Agriculture Department. Figure 2-2 is the view of the kraftani fields' success story for Official Website of the Pahang Agriculture Department



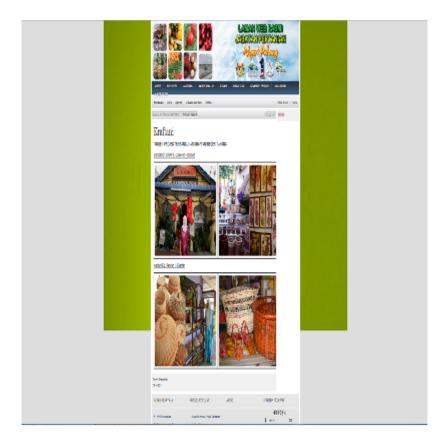


Figure 2-1: Activity

Figure 2-2: Success story



## 2.1.2 Official Portal of Malaysian Handicraft Development Corporation (Portal Rasmi Perbadanan Kemajuan Kraftangan Malaysia)

Official Portal of Malaysian Handicraft Development Corporation is a portal that provides information of handicraft product in Malaysia. It is act as a help desk from government especially for people who interesting on handicraft products (Portal Rasmi Perbadanan Kemajuan Kraftangan Malaysia, n.d.). Refer to Figure 2-3 and Figure 2-4.



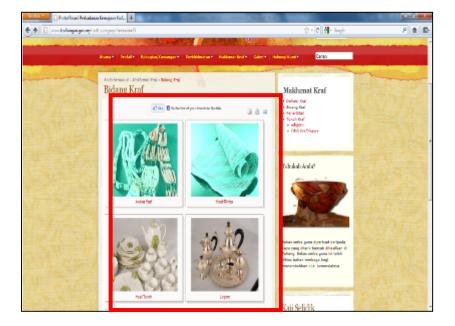


Figure 2-3: Homepages

Figure 2-4: Handicraft field

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## 2.1.3 Portal of World Handicraft Organization

The fundamental aim of the Portal of World Handicrafts Organization is provide the traditions and potential of handicrafts for the service of the world community. It will strive for the preservation, support and development of folk traditions (Portal of World Handicraft Organization, n.d.). Refer to Figure 2-5. The latest activity or activity show at the Press Center site in Portal of World Handicrafts Organization



Figure 2-5: Latest activity

#### 2.1.4 Yemen Handicraft Website

Yemen's handicraft products are the essence of local wisdom and experience handed down from generation to generation. They build an important part of the heritage created by many civilizations during centuries of history. (Yemen Handicraft, n.d.). Refer to Figure 2-6 and Figure 2-7.



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Yemen Handicraft

Figure 2-6: Homepages

Figure 2-7: Various Handicraft Products



LAWAY AWAY

## 2.1.5 Comparison between Existing Systems

(Official Website of the Pahang Agriculture Department, Official Portal of Malaysian Handicraft Development Corporation, Portal of World Handicraft Organization and Website of the Yemen Handicraft)

Official Website of the Pahang Agriculture Department are mostly discuss on the farmer's field while the handicraft product is just one of the subfield which is lack of information and promote on it. In this portal, there are provide the information of the successful handicraft businessman in Industri Asas Tani (IAT).

In the portal of Official Portal of Malaysian Handicraft Development Corporation, there is provide the basis information about some handicraft in Malaysia and as a help desk for handicraft business man to register as a member of Malaysian Handicraft Development Corporation. When they have any question about the handicraft field, they can request information by send to the authority email address. But in this portal, it is lack of information about handicraft, especially handicraft product in Malaysia. There is haven't provide an alternative way to user who view the portal to know more about the process of making handicraft. There are haven't a forum to allow users sharing their knowledge in handicraft field.

In the Portal of World Handicraft Organization, there have the Press Center which shows the latest event and information for worldwide handicraft. The research part was not updated. It has provided the latest news about handicraft products. Users are allows to register as a partnership with the Portal of World Handicraft Organization.

Website of Yemen Handicraft has almost ten small modules on it: Home, Yemeni Products, Traditional Handicraft, Social Fund for Development, Travel, Partners, Contact Us and others. All the modules only provide the information while there is no platform for users to share their knowledge and discussion.

The details comparison between the four existing systems will show at Table 2-1.



Table 2-1: Comparison between Existing Systems

(Official Portal of Malaysian Handicraft Development Corporation, Portal of World Handicraft Organization, Official Website of the Pahang Agriculture Department and Website of the Yemen Handicraft)

No.	Features	Official Website of the	Official Portal of	Portal of World Handicraft	Website of the Yemen
		Pahang Agriculture	Malaysian Handicraft	Organization	Handicraft
		Department	<b>Development Corporation</b>		
1.	Handicraft	Handicraft product	There are listed five main	Handicraft product profiling	Available. But not detail on
	product	profiling is not available.	handicraft product fields.	is not available.	it. Refer to Figure 2-7.
	profiling		Refer to Figure 2-4. The		
			different fields are linked to		
			their own product profile.		
			But in the specific product		
			profile, there is lack of		
			information because only the		
			basis information provided.		
2.	Handicraft	The directories for the	Handicraft businessman	The people who are	Handicraft businessman
	businessman	Industri Asas Tani (IAT)	profiling is not available.	interesting on partnership	profiling is not available.
	profiling	handicraft business are		with this organization, they	
		provided. Users who are		can register.	



		not registered as member			
		also can view it.			
3.	Handicraft	Expert profiling are not	The Adiguru and Tokoh of	Expert profiling are not	Expert profiling are not
	expert profiling	available.	handicraft Malaysia are	available.	available.
			listed. Besides, there is a link		
			for access to the Adiguru or		
			Tokoh profile to view their		
			personal information on		
			specific handicraft product.		
			The list was organized based		
			on state.		
4.	Process of	The process of making	The details for process of	Process of making handicraft	Process of making
	making	handicraft is not available.	making handicraft products	is not available.	handicraft is not available.
	handicraft		are not available.		
5.	Risk as a	Risk as a handicraft	Risk as a handicraft	Risk as a handicraft	Risk as a handicraft
	handicraft	businessman is not	businessman is not available.	businessman is not available.	businessman is not
	businessman	available.			available.
6.	Success stories	The successful handicraft	The success stories from	Success story are not	Success story are not
	from some	businessmen were shown	Adiguru and Tokoh.	available.	available.
				Created with	

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	businessman	the company name and the			
		photo of the shop only. The			
		details are available. Refer			
		to Figure 2-2.			
7.	Suppliers and	Suppliers and customers	There is providing	Suppliers and customers	Suppliers and customers
	customers	profiles are not available.	application as a handicraft	profiles are not available.	profiles are not available.
			supplier. Users need to		
			download the files and fill in.		
8.	Marketing	Marketing strategies are	Marketing strategies are not	Marketing strategies are not	Marketing strategies are not
	strategies	not available.	available.	available.	available.
	9				
9.	<b>Product Pricing</b>	Product pricing are not	Product pricing are not	Product pricing are not	Product pricing are not
		available.	available.	available.	available.
10.	Journal/papers	Not available. But there is	There are no journal/papers	Not available. But there is	Journal/papers about the
	about the	update latest news about	about the handicraft	update latest news about	handicraft products are not
	handicraft	handicraft field in	products. But there is update	handicraft field in Malaysia.	available.
	products	Malaysia.	latest news about handicraft		
	r		field in Malaysia.		
			Tivia in Iviain join.		
				Created with	



11.	Picture gallery	The picture about the	The activity of handicraft	The picture gallery is not	Yes. It is show the
		activities held, not only the	field was recorded are posted	available in this portal.	handicraft products
		handicraft product. Refer to	at the Gallery part. The		pictures.
		Figure 2-1.	activity was recorded by		
			photo, video or audio.		
12	Activity gallery	Activities are show and	The latest activity or coming	The latest activity or activity	Activity gallery is not
		promote at the homepages.	soon activity will show at the	show at the Press Center site.	available.
			homepages. Refer to Figure	Refer to Figure 2-5.	
			2-3.		
13.	Collaboration	The news about farmer	SAHABAT KRAF (received	Collaboration tools are not	The latest news is show at
	tools (forum,	(included handicraft) will	information about discount	available.	the Homepages. Refer to
	news,	be updated. Users are	on handicraft sales and		Figure 2-6.
	knowledge	allowed to email officer for	activities handicraft Malaysia		
	bank, tips and	advanced information. But	through email, short message		
	experience)	currently forum is not	or letter). But there are		
		available at this official	haven't forum to let users		
		website.	discuss and sharing their		
			knowledge.		

