ELEKTRONIK SISTEM NIKAH, CERAI DAN RUJUK (e-SINAR)  
WEB-BASED ISLAMIC FAMILY AND MARRIAGE MANAGEMENT SYSTEM

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In the name of Allah, the Most Merciful and the Most Compassionate, praise to be the one Allah, the sustainer of the entire universe.

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ABSTRACT

Electronic Sistem Nikah, CerAi dan Rujuk system (e-SINAR) is an application acceptance and processing system. This system is web-based system and each creation and processing task is made by online. The system provides processing links that links between user and administrator at Jabatan Agama Islam Sarawak (JAIS). The ability of e-SINAR is to accept the application process of pre-wedding, wedding ceremony and counseling services, checks user application status and get much information about Islamic family development. e-SINAR can process the user application and storing the information in database online. The software used is designed by using Macromedia Dreamweaver MX supported by the Active Server Page (ASP) as the application tools for building the server side. With the existence of e-SINAR, each application and processing tasks can be made faster and easier.
ABSTRAK

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CHAPTER 1: INTRODUCTION

1.1 An Overview

Internet has made a great impact in our live as the disseminations information mediums. It has enhanced our live and improves productivity by providing an easy online access to information. The web based systems are intended to turn offline process easier, faster and move efficient, for examples bill payment, ticket booking, ticket and information, etc.

e-SINAR is designed for Jabatan Agama Islam Sarawak. The proposed system has extended the current system at Jabatan Agama Islam Sarawak that is named “SINAR System, Sistem Nikah, CerAi dan Rujuk” into online version. The new system is upgraded the stand alone system into a web-based system and makes it an online system.

The main focus of the e-SINAR is the utilization of the internet to ensure it disseminates the services effectively and efficiently. It is made online because of the easy deployment and the platform independent. The main focus of interface designs part will be the usability, learn ability and consistency of the system.
It provides applications processing that links between user and the administrators. The ability of the system allows user to register, obtain more information about the family environment needs spanning the areas of marriage, family tips, counseling, and kid's upbringing, complain submission, and related information. The system will help to enhance national identity, integrity and social stability. Besides, it supports the nation's objective towards developing quality population through the strengthening family institution of family well-being.

1.2 Background of Jabatan Agama Islam Sarawak
Jabatan Agama Islam Sarawak (JAIS) already has a system for keeping information about marriage and the applicants for wedding since 2001 that is named SINAR system. SINAR is developed by a well establish IT company which is called Sarawak Information System (SAINS) and wholly owned by the Sarawak State Government. SINAR is a not a freeware software and was develop for Jabatan Agama Islam Sarawak (JAIS).
1.3 Problems Statement

SINAR allows few officers with certain username and password to access data as well as updating and keeping applicant information's. However, the system is only for keeping data about marriage and only used at the office at Jabatan Agama Islam Sarawak (JAIS), Kuching as the central office. Some problems since the usage of this system for the past few years are listed below:

- The applications of the system are being limited only for the administration side. As the registration needs to be done manually, the user need to be at the office branch to register the marriage related process.

- Color usage is not consistent. Different color has been for each page. For instance, the main page is design using black for background, green for header text, yellow for text, and purple for help text, while some other page are using white as for background.

- The registration form is designed with a combination of gray and white for background and black color for text. This particular color are not that suitable for this type of application

- There are many buttons which are not functioning very well. There arises a need to reconsider the usage of each of it.

- Error-typing message is not provided to let the user know that if they have made a mistake.
1.4 Objectives

The objectives of develop the e-SINAR are listed below:

i. Modify the registration from manual system and other services to online registration systems.

ii. Allow the data to be saved automatically in the database system, when the user fills the form that has been provided.

iii. Recognize the security system by using password to make sure all the data personal are safe.

iv. Allowed the user to ask their question directly through the discussion board that is provided.

1.5 Project Scope

The scope of e-SINAR will be an incorporated user-profile processing system that features the registration, reserves and allow authorized access. It contains information about the family development to support the nation's objective towards developing quality population through the strengthening and promoting of family well-being. The modules details involved in e-SINAR are listed in table 1.1:
<table>
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<th>Module</th>
<th>Description</th>
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| Member       | • Registration as a new member  
               • Register for pre-wedding seminar and wedding  
               • Cooperation between JAIS and University / College to organize pre-wedding seminar  
               • Counseling services in term of family problem, Islamic family development, etc  
               • Information details about Islamic family development, kids upbringing, and marriage life. |
| Administrator | • Manage and control all item information details  
               • Maintain user profile  
               • Approve consultation hours  
               • Maintain record of the registration. |

Table 1.1: Modules of e-SINAR

1.6 Project Significant

e-SINAR will given benefit for administrator and members. It allows easy and faster data access with the systematic organization. Through this system, responsible staffs would be able to access the database and update the inventory via the Internet. Beside, it reducing data redundancy and the risk of human error, as well as make the job of manipulating data to be done faster. Additionally, the system will provide user-friendly environment for members to apply for pre-wedding seminar and wedding registration at their own times and places.
1.7 Expected Outcomes

e-SINAR online system is expected to provide a good solution and become a much more convenience info structure for marriage related process through the Internet. Since e-SINAR is operated on 24 hours in the World Wide Web, user is able to reserve the pre-wedding course and register for wedding through online. Moreover, it provides a service which the user is able to print the form after registering for wedding in order to get the wedding certification.

1.8 Significant of Research

The system is easy to use and user friendly. Besides that, the user can understand the purposes of the system before they using it. e-SINAR will need less human resource to conduct its daily task and may reduce the outflow while maintaining its productivity.
CHAPTER 2: LITERATURE REVIEW

2.1 Introduction

As we move into the century 21st century an ever-increasing number of human activities has migrating from a world of tangible physical process into the web-based online system. Internet and World Wide Web (WWW) has become the catalyst for the hypermedia revolution and led to an astonishingly rapid international adoption of hypermedia.

This chapter will give a general review on some of the existing system that strongly supports the development of e-SINAR. It is a system registration by online which allow user to register, acquire more information about the Islamic family development, in term of the family section, kids section, pre-wedding course section, wedding section and counseling section which the user can use to resolve the family problem with just sitting at home or office! With the existence of the system, each application and the tasks that need to be process can be made a lot faster, easier and more productive.

2.2 Existing Website System

There are three of existing website systems in the market, which are SINAR, SISPEN and Saloma Bistro, which are more on registration by online that almost similar to the system that will be develop for this project. The research will be focus on the usability, interfaces, and the functionality of the systems.
2.2.1 SINAR

SINAR software is developed by a well establish IT company which is called Sarawak Information System (SAINS) and wholly owned by the Sarawak State Government. SAINS is a not a freeware software and was developed for Jabatan Agama Islam Sarawak (JAIS).

The network architecture of the SINAR is a client server architecture limited to few user accessing the system through the local area network (LAN). These shows that the network architecture is not satisfied the needs of the organisation in present days as it limits the usage of the system.

Additionally, the system is not a distributed system which makes it inefficient for every platform. User need to connecting the network in order to retrieve the data, if user fails to get their needs. Besides, user has to wait for about 5 minutes or more for each request. These strongly show that the distributed system does not fulfill user need. SINAR only allows a few system administrators to view the personal data of the applicant who plans to get married into the database system by using the form filled by user manually. However, this method consumes a lot of time and put it at a high risks.
Administrator is required to ensure the data accurately and take several times to key in the information into the system. Sometimes, it may cause of loosing the forms, information's and other technical mistakes caused by staff negligence's. SINAR allows people to make enquiry or express their opinion. However, it has been limited in terms of time constrains and availability, the system may not achieved and contribute to a more efficient kind of service, as well as in the management of the organization.

Figure 2.1: Screen Capture of SINAR Registration Form
As the registration for wedding, it has to be done manually, people actually need to be at the branch office to apply and the process is repetitively. This will waste applicants’ time to get their requirements such as the information about family development, marriage registration, and counseling services, by then it may cause complaints, ask questions and related values.

There will be miscommunication in term of the information, when the staffs are not available at that time. Above and beyond that, the probability of errors and mistakes may perhaps occur are very high in percentage, when form filling is being done manually. On the other hand, if the system is available online, the user can easily regain the information about family development and register to get marry by just accessing to the World Wide Web.

2.2.2 SISPEN

SISPEN is provided by Jabatan Perkhidmatan Awam, Malaysia (JPA) since August 1998. The functions of the system are to store information about their staff as well as to edit and updating data. This system is from the last research of a group of undergraduate students from Faculty of Computer Science and Information Technology, UNIMAS that is named Sistem E-Unit Latihan JPNS.
The system is a standalone system and was not connected to server, as well as the all the information about the staff is kept in the database system. The interfaces of the system are using only two combinations of colors which are black for the border and font and gray for the background interface.

Icons are used to represent system objects, application tools such as those for drawing, utilities and command. Furthermore, user will click on the icon to make things to happen. However, the system has a lot of button and menus with the same functions which could make people confuse while clicking on those icon.

2.2.3 Saloma Bistro Website

Saloma Bistro is well-known restaurants which are located in the heart of Kuala Lumpur city as well as the tallest building in the world, Kuala Lumpur City Centre (KLCC). As a well-known restaurant, Saloma Bistro creates its web site in order to provide information about their special menu and services as well as to promote their special offer and events to their customer. Besides, they also provided facilities such as courtyard, theatre for event like dinner, press conference and meeting.
The website looks simple and easy to navigate to the site. However, there was some weakness identified on the current website which is listed below:

- Some of the information is not placed in the appropriate link. There is lots of information placed in one page. The user has to scroll down to get the information.
- Font size is too small. The user has to make an effort to read the information in the site.
- Several of the word which is not a link is made underlined text. The user will get confused when there is underlined text which is not a link.
- The navigation buttons are not ordered properly. For example, the home button is placed at last among of the button.

2.3 Comparison of Existing System

After reviewing the existing software, the comparison and summarizes for the features are made in term of the following aspects:

2.3.1 Software Type

Every registration systems reviewed is not freeware and the software is protected by copyright laws and international copyright treaties. In addition, the software is used for organizations purpose only, with no intentions of infringing upon the trademarks. This means, there is no part of this publication may be reproduced without written permission from the company of the software application system.
2.3.2 Characteristic

The SINAR software only allows a few officers with a certain ID Name and password to access data as well as for updating and keeping information's of applicants. The purpose of this is to ensure that there will be no applicant’s information overlapped in Sarawak. The interfaces of the SISPEN system are using only two combinations of colors which are black for the border and font and gray for the background interface. While, the Saloma Bistro website designed the several of the word which is not a link is made underlined text. The user will get confused when there is underlined text which is not a link.

2.3.3 Functions

SINAR is software which meant for storing and updating information's of applicants whom applied for pre-wedding course. However, the processing system has been done internally and it is a bit difficult to be understood by a new user that could lead to the waste of time. SISPEN software is also a system for storing information of the staff and but the system is lack of security. However, Saloma Bistro website is developed only to provide information about their special offer, services and events to their customer.