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Semangka is an Islamic Study Information System Application as a Real-Time Information Sharing Media for Muslims

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Abstract. SEMANGKA meaning is Semangat Kajian. Frequent delays in the acceptance of religious studies information, make the lack of interest to follow. The ease of receiving religious studies information is one of the factors to arouse the interest of pilgrims to follow religious studies. one of which is by creating an application that can be designed with the support of Android operating system platform. On this occasion the author wants to develop an application that aims to share information about the study of Islamic religion. Because currently emerging activities of Islamic religious studies and almost every day in various places there is a study of Islam. This Islamic study was initiated by various associations or religious communities. With this application every community who want to hold Islamic religious studies activities can upload the information into this application so that in the end every person or congregation can see all the information in one study application. The application not only covers the study information but added with the sholat schedule, the Islamic community information, streaming video from the study and connecting one pilgrim with other pilgrims. The feature that is not less important is the existence of a map to facilitate the route to the place of study activity. In the design of this application using Method Business Canvas (BMC) and also used Unified Modeling Language (UML) as a system design tools created. And in designing using PHP programming language, Sublime text to edit PHP script, database server that used MySQL and website application 2 apk developer as application that convert web application to android based application.

1. Introduction
Technology and information is inseparable today, it is based on technological developments that are increasingly growing, it can also be seen from the easy access to obtain information quickly, accurately and completely. These technological advances underlie an organization, educational institution or governmental institution to use computer-based technology and networks, therefore with the delivery of information technology becomes more effective and efficient. Advances in information technology is helpful for an application to provide information systems that can be accessed by the public so that interaction between organizations with the public can be done virtually through the online based information system. This service is very practical and can be done anywhere as long as it is connected by an internet network. Many applications have used a computerized service system, and a system that has been based online. but the current application does not cover all existing services. This application will be the new design of information technology from the view of information
service, where the service system is intended to solve the problems faced by the pilgrims and the community to obtain information about the activities to be held.

Some applications have a good information-giving system, in the application system there is a menu that provides information for the community, but there is no information system to provide information where the da'i will preach, routine recitation information to monthly, inspirational talk show, workshop inspirational, ifq, this donation is seen in every pilgrim will come to attend the series of events that have been scheduled still rely on information from fellow worshipers. Less maximum in terms of providing the latest information, complete and precise makes this system less demanding.

Currently the community does not want to miss the progress of information technology, especially religious affairs, therefore this system will want to improve the quality by designing an online service-based information service system.

This application will cover aspects with the interaction of the organization with the community, will be much obtained from this application such as the effectiveness of information delivery services.

Based on the background that has been described and the existence of problems in the current system, the researcher makes an information system analysis of information services study of da'wah in order to overcome the current problems. This research therefore makes the title "SEMANGKA IS AN ISLAMIC STUDY INFORMATION SYSTEM APPLICATION AS A REAL-TIME INFORMATION SHARING MEDIA FOR MUSLIMS ".

2. Problems

Based on the above background, then the issues to be discussed in this penetration are:

a) How does the dissemination system of religious scholarly studies work today?

b) How do users get all the information?

c) How to design a dissemination system of this religious scientific study?

3. Methodology Review

In this study used qualitative research methods in the form of case study methods. Case study is a research strategy in which researchers carefully investigate individual programs, events, activities, processes, or groups. Cases are limited by time and activity, and researchers collect complete information using various data collection procedures based on predetermined time.

![Implementation flow diagram](image)

**Figure 1.** Implementation flow diagram

In this research use 3 method that is first in collecting data using Observation, Interview and Literature, second in method analyse using Business Model Canvas (BMC). And third in designing using PHP programming language, Sublime text to edit PHP script, database server that used MySQL and website application 2 apk developer as application that convert web application to android based application. Tomcat, FileZila dan Mercury, Visual Paradigm 6.4 Enterprise Edition as a tool to design model.
4. Theory Literature

According to Rusdiana and Irfan (2014: 29) "The system is a collection of several parts that have kater linkage and mutual cooperation and form a unity to achieve the goals of the system."

According to Alexander Osterwalder & Yves Pigneur (2014: 13), "business model canvas is the same language to describe, visualize, value and change business model". While the definition of a business model is a business model describes the basis thinking about how organizations create, deliver, and capture value. The business model canvas consists of the top 9 (Nine) building blocks showing how the company makes money. Nine building blocks consist of:

- Customers Segments –CS.
- Value Propositions–VP.
- Channels –CH.
- Customer Relationships.
- Revenue Streams.
- Key Resources.
- Key Activities.
- Key Partnerships.
- Cost Structure.

According Sugianto in Zohrahayati (2013: 28), "System design is an activity to create technical design based on activities at the time of the analysis process. The design here is meant a process of understanding and the role of a computer-based information system."

Assessment of study according to the experts: The word "study" comes from the word "kaji" which means (1) "lesson"; (2) the investigation (about something). Beginning with such basic terms, the word "study" means "process, means, deeds of study; inquiry (in-depth lessons); review (KBBI 1999: 431)

Dissemination is an activity aimed at target groups or individuals in order for them to obtain information, arise awareness, receive, and eventually utilize the information.

Dissemination is a process of disseminating innovations that are planned, directed, and managed. This differs from the diffusion that is the spontaneous flow of communication. In this sense can also be planned the occurrence of diffusion. For example in the dissemination of innovative use of process skill approach in teaching and learning process. After the experiment is held and students actively learn to teach can take place effectively and students are actively learning. So the results of the experiment need to be decimated. To spread the new way, by tackling some guru in the hope that there will be diffusion of innovation among teacher in each school. There was a mutual exchange of information and finally there was a common opinion among teachers about the innovation.

Religion, Religion and Din (in general) are a system of credo (belief or belief) over the existence of an Absolute Beyond man and a system of rites (manifestation) of man to whom he perceives the Absolute and the system of norms (rules) that govern human relationships with other realms, in accordance with and in accordance with such beliefs and customs. Religion, Religion and Din each have their own etymological significance, each with its own history and history, but in the technical sense of terminology, the three terms have the same meaning.

5. Research Result

5.1. System Analyst

As already informed above, the method of analysis used is Business Model Canvas where the concern point is the value proposition generated by this application. Here are the details of the analysis results using Business Model Canvas:

In system analysis method, writer use BMC (Business Model Canvas) as follows;
5.2. System Analyst

In this app is designed only for 2 actors who can access this application that is participant and community. Participant is useful to find and know the schedule of Islamic studies going forward and for the community aims to convey the information of Islamic studies that will take place. Both participant and community by first registering for this application. Verify this application using the email address along with the phone number owned by each participant.

The initial view of this application can be seen in the image above (right). This view shows the Islamic family and there is a button for connecting with the next display. The right image informs the main menu of this app.

In this main menu there is a feature 4(left) the most recent study information and there is a tagline "start your activity with Bismillah and end your activity with Alhamdullilah". Besides that, because this is the main menu so it is also displayed links or icons to connect with other features such as icon to schedule sholat, icon to to the event, icon for community information and icon for streaming and event map.
5.3. Display Design Result

**Figure 4. Display for Start Safari – Main Menu – Islamic Event**

Display above describes the facility to know the schedule of sholat and this feature is online wherever we are because it is connected with the location feature (figure 4. center). So, the location wherever we schedule the sholat will follow the sholat schedule where we are. As for the right picture illustrates the Islam Event.

This feature is a key feature of this app where all the information of Islamic studies that are anywhere can be displayed here, so we can understand / know and can be present in time. Information on Islamic Studies for now is divided into 2 ie Seminar and Study, for the Seminar is a paid study with the logo "S" while for review is the information Islamic Studies with the logo "K" is not paid alias free. In the review information contains, Review Theme, Place and Time of Study, Address of study, and there is also Photo or header of event. Shown in figure 4 (right).

**Figure 5. Display for Islam Community – Streaming (central) – Event Map (right)**

All the studies and seminars presented in this application are also connected to the map where the activity takes place where the purpose is to facilitate the participants in finding the place of activity. This facility is also connected with the google map so that will be shown the fastest path to the venue.
6. Conclusion
The formation of facilities and vessels for speakers and congregations to contribute to each other, one of which made the application easier for the congregation who want to know the place, time and theme of the upcoming study. Coupled with the video content collection feature of the ongoing study event, pilgrims and committees are no longer confused even harmed because of lack of access to accurate information. And one way for this application is used by all pilgrims will be promoted via social media such as Instagram, Facebook and Telegram to attract the interest of congregation using the application of Islamic studies in addition to the development of technology later this application is also provided buy direct tickets for the event Islamic events such as workshops, training and seminars. In the design of this application using Business Model Canvas (BMC) and also used also Unified Modeling Language (UML) as system design tools.

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