DEVELOPMENT YUK NGAJI FOR TEACHER OF THE QUR'AN RESERVATION USING METHOD PROFILE MATCHING AND SUPERSAAS API IN MADRASAH ASH-SHOBIRIN BASED ON ANDROID

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ABSTRACT

The role of the teacher of the Koran in the world of education is very important for Muslims. Reciting is an activity carried out for Islam even in Indonesia to become a culture where after the evening prayer the Koran activities become an obligation for Muslims not only to read the Koran that is studied In the study activities there are also other materials such as Makhroj, Reading the Ouran, Studving the Our'an. Taiweed. Hadith. Jurisprudence, Qur'an Recitations and Arabic. The Koran teacher does not teach Arabic language science, theology, and Jurisprudence simultaneously. Therefore, there is an idea to build a yuk-based application on Android which is the most widely used mobile device. Yuk Koran application has a function to recom mend the nearest Koran teacher and provide information on desired skills and schedules. Another function is that the Koran yuk application is suitable for users who have a busy schedule. The technology used to recommend the nearest Koran teacher is Google Directon Fire technology and profile matching method. Other technologies are scheduling, this yuk app uses SuperSaaS api to do scheduling. Koran yuk applications already built are expected to make it easier to get information about the Koran teacher closest and do the scheduling as desired and provide recommendations from the nearest Koran teacher or teacher.

Keywords: Ash-shobirin, Android, Nearby Ngaji Teachers, Nearby Ustad. Recommended Application,profile matching,supersaas

1. PRELIMINARY

1.1 Background

The role of teacher of the Koran in the world of education is very important for the people are Muslim. Mengaji an activity undertaken for the Islamic religion in Indonesia even become a culture in which after the afternoon prayer time chanting activities became an obligation for Muslims not only read the Qur'an are studied in the activities of the Koran there are also other materials such as Makhroj, reading Quran, Assessing the Quran, Tajweed, Hadith, Fiqh, Qur'an recitations and arab.62,5% and language teacher of the Koran does not teach directly Arabic science, the science of theology and Jurisprudence simultaneously.

Studying religion is studying the Koran, religious teaching was minimal because it is directly studying the Koran is also minimal. Learn the Qur'an by reading and memorizing. Based on the results of interviews with Ma'had Al Imarat one institution that provides the facility to memorize the Quran in the city, now educational institutions that provide facilities to memorize the Qur'an is still limited as well as the teachers in memorizing Al -Qur'an[15].

Based on the results of questionnaires distributed on Jl Cisitu Beautiful adjacent to a madrasa ashobirin average ability to read the Quran along with Tajweed science has been dominated since the age of 9 years but when adulthood is rarely used anymore so remember to pronounce the letter Qur'an .76,08% over the age of 20 years and above is very uncomfortable if the Koran with small children away from this her age. phenomena happens sometimes influenced by the age of an adult but in reading the Our'an still sputtered brick so that it appears a shame to recite and supporting factors such as the place and time of his recitals are held apart from that in the Koran sometimes appears the feeling you want to explore different disciplines such as Makhroj, Assessing the Quran, Tajweed, Hadith, Fiqh, Qur'an recitations's and as well as the Arabic language while at the school nearest available only teacher recite this can sometimes be a factor only reluctantly in the Koran other than that one factor less encouragement in the Koran is in terms of time in because teachers is the koran its pick bustle own and only had a few days just in one week whereas those who recite any desire to have their activities undo this affects the intention to recite in their teens or adults.

1.2 Profile Matching

In a profile matching process outlines a process of comparing the individual's competence in a job competency so that can know the difference competence (also called a gap), the smaller the gap produced by the weight of large value which means it has a greater opportunity for employees occupying these positions. The system is a program created is a software profile matching that serves as a tool to speed the matching process between occupational profiles (soft competency) the employee's profile (soft competence of employees) so as to obtain information faster, better to know the competency gaps between the positions of the holder office or in the selection of the most appropriate candidate for a position (ranking candidates) [13].

1.3 SuperSaaS

Software as a Service or SaaS where web-based application that can be used as a fully functional Google drive, Zoho.com, Kizoa, Wordle, Prezi and more; Platform as a Service or PaaS which refers to the use of web-based framework for building software applications as the inventor of MIT and Supersaas.com to make a reservation module, Infrastructure as a Service or IaaS that is sometimes described as the hardware space for rent. Hosting free websites online such as Wordpress.com, Weebly.com, and Wix.com may fall into this category [12],

1.4 Purpose and Objectives

The purpose of this research is to build a mosque madrassa teacher of the Koran applications ash-Shobirin using matching profiles based on Android. The objectives to be achieved, namely:

1. Help students who are reluctant to recite simultaneously away from its age through private tuition

2. Assist students in making appointments and recommend appropriate expertise teacher of the Koran

3. Helping students overcome feelings of wanting to explore certain fields.

Assist students who wish to enrol recite at the madrasa ash-Shobirin easier.

1.5 Method of Software Development

The method used in the making of this software is the Waterfall model. As for the stages through which the process can be seen in Figure 1 following [1]:



Picture 1 Software Development Methods

2. CONTENT THE PROBLEM

2.1 System Architecture Analysis

Analysis of system architecture aims to identify the architecture to be built. Here is a picture of an application system architecture teacher of the Koran.



Picture 2 System Architecture

2.2 Problem Analysis

When Muslims want the Koran some problems occur in the environmental community. The problem that occurs is that some people are very uncomfortable if the Koran with small children away from her age.Fenomena this occurs is influenced by factors already mature age but in reading the Qur'an still, stammer so that it appears a shame to recite and supporting factors like the place and time. Other than that it sometimes appears when users want to explore the feelings of different disciplines such as Makhroj, study the Qur' a Tajweed, Hadith, Jurisprudence, and the recitations of the Qur'an and the Arabic language.

The right solution for this phenomenon will hold a class division as a special class of beginners, normal class, a class that already expert. so that adult age who has not been smooth Qur'an any longer reluctant or embarrassed to be united with beginner classes for beginners class will teach from the beginning started iqra, as well as already started smoothly until who are experts, due to staying to continue learning the unknown.

Thus the researchers will conduct "Yuk Application Development Ngaji remedy Reservations Master Ngaji Using API SuperSaaS Profile Matching Method Based And Android is expected to help people who appear shame in following the Koran is due to factors of age who read the Qur'an still terbata- bata and emergence of a feeling of want to explore different disciplines and supporting factors such as place and time.

2.3 Analysis technology used

Technology analysis aims to describe what technologies will be implemented in a system that is being conceived. Here are the parameters used by this research :

1. SuperSaaS

Yuk Koran SuperSaas application using the API to schedule a reservation on a teacher of the Koran. As for how the API SuperSaas the Koran Yuk application is required to send data kedatabase data obtained is processed through the rest of fire as needed, the data is sent keaplikasi supersaas then returns the data (return) of supersaas to rest api.SuperSaas transmit data such as json and Fire will SuperSaas displaying them to users according requestnya.Berikut scheduling parameters given SuperSaas:

- 1. (Input Values)
- *schedule_id*= Number of the schedule that you want to download. can obtain this number by looking at the Configuration Overview page. This is the number at the end of the URL in the address bar of your browser.
- *user*= Name or user ID. Use user = 0 to get a reservation for the administrator.
- *from*= (Optional) If there is only a booking after this time are returned. Must be in the format YYYY-MM-DD HH: MM: SS in local time
- *fire key*= Administrator API Key to the account belonging to the schedule. You can also omit this field and use HTTP Basic Authentication or MD5 hash instead.
- checksum= MD5 Hash that contains the name of the account, the API key, and a user name. Ignored if you send an API Key account through api_key.
- *slot* = When you add a slot parameter = true, then the additional information about the relevant slot will be included with the booking (just the type of capacity)
- *length*= (Optional) Limit searching the empty space at least in this long in a matter of minutes. The standard length is used if this parameter is missing. (Schedule only source)
- *resource*= (Optional) Limit searching the empty space to the resources mentioned. (Just schedule resources)

- *full*= (Optional) Set to true to restore full slot as well as an empty slot. (Capacity schedule only)
- *maxresults*= (Optional) Limit the number of results returned. The default is 10.
- 2. (Output Values)
- *id* = Unique booking identifier that can be used to match the previous downloads
- *res_name* = If your schedule contains more than one source, this is the source selected (only source)
- *RESOURCE_ID* = ID selected source (only sources and JSON)
- *slot_id* = Information about owned slot reservation (only capacity)
- *service_name* = Contains a service identifier (service only)
- *service_id* = ID selected services (only services and JSON)
- *start* = Start time in the format YYYY-MM-DD HH: MM: SS in the local time zone
- *finish* = Finish time in the format YYYY-MM-DD HH: MM: SS in the local time zone
- *deleted* = True or false, depending on whether the reservation was deleted
- *created_on* = The creation time in the format YYYY-MM-DD HH: MM: SS in UTC (Note: not local)
- *updated_on* = Last change time in the format YYYY-MM-DD HH: MM: SS in UTC (This will be a time of deletion if removed is set to true)
- *created_by=* Name and ID creator / innovator. Empty for anonymous
- *update_by* = Ordering or system changes, such as status updates PayPal
- *waitlisted* = If the booking is waiting, this field contains the letter W (only capacity)
- <*More>* = Additional columns as selected in Process Configuration screen.

2.4 Functional Needs Analysis

2.4.1 Software Requirements Specification

Software requirements specification consists of Software Requirements Specification Functional (SKPL-F) and the Software Requirements Specification-Non-Functional (SKPL-NF). Below is a table of SKPL-F and SKPL-NF.

Table 1 Functional SKPL

code	Software Requirements
SKPL	Specification

SKPL-F-01	The system provides facilities for users to do registration
SKPL-F-02	The system provides facilities for users to login do
SKPL-F-03	The system provides facilities for
	users to choose the teacher of the
	Koran as desired reservation
SKPL-F-04	The system provides users with the
	timetable
SKPL-F-05	The system provides facilities for
	users to choose the teacher of the
	Koran that had been recommended
SKPL-F-06	The system provides facilities for
	users to check the availability of
	teacher of the Koran
SKPL-F-07	The system provides users the ability
	to display the selected teacher of the
	Koran reception
SKPL-F-08	The system provides facilities for
CKDI E 00	The system manifes facilities for
SKPL-F-09	tageher of the Koren to fill out the
	form profile user quota per day
	schedule and expertise
SKPL-F-10	The system provides facilities for
	teacher of the Koran to show the
	reservation that have been users
SKPL-F-11	The system provides facilities for
	teacher of the Koran to receive user
	selected reservation
SKPL-F-12	The system provides facilities for
	teacher of the Koran for the
	acceptance of the reservation has
	been made

2.5 Usecase Diagram

Use case diagram provides a way to describe the external view of the system and its interactions with the outside world. Here is the use case diagram for general users and user applications teacher of the Koran.



Picture 3 Common User Usecase

2.6 Class Diagram

The class diagram is a model of some class that describes the relationship between classes, including associations and generalizations. Here is the class diagram of the system built.



Picture 4 Class Diagram

2.7 Sequence Diagram

Sequence diagrams illustrate a book that interacts with each other in which the message was sent. Sequence Diagram is also a dynamic model that describes the behaviour of the object, sequence diagrams to make a reservation. Here is a sequence diagram Ngaji applications built Yuk's.



Picture 5 Sequence diagram

2.8 System Design

2.8.1 Menu Structure Design

The menu structure is the menu structure which is then applied to the system that was built to make it easier to see the menus that can be accessed in the application. Here's a menu structure that has been built. Here is a picture that is the structure of the menu system common users or students.



2.8.2 Interface Design

The design of the user interface is part displays are expected to be applied to the application's built Ngaji Yuk. Here is a picture of the user interface displays the services that will be used as a description of the system built.



Picture 7 Reservation



Picture 8 Ngaji Schedule

3. Cover

Cover contains conclusions and suggestions of research undertaken.

3.1 Conclusion

Based on test results Yuk Ngaji application on android platform it could be concluded as follows:

- 1. Yuk Ngaji application to facilitate users in
 - finding a teacher of the Koran in

accordance with their expertise.

2. Applications can facilitate the user in the Koran exercises at home.

3.2 Suggestion

Applications built Yuk Koran is an application that focused only on the recommendation teacher of the Koran and chanting practice, therefore, there are some suggestions that can be used as a reference for the future development of this software into a better direction so as to keep up with technology. The advice of the Koran yuk application development are as follows:

- 1. Develop a platform that can support applications where currently only supports android platform.
- Adding more teacher of the Koran to be more efficient and increase scheduling in the desired reservation to the user.
- 3. Develop a schedule made not only diwebsite create supersaas official.

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