Application Design "Test Job Application" On Android OS Using The AHP Algorithm

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Abstract.
The background of this research is how to make an application that makes it easier for job seekers to find work with an Android-based application method so that it can be done anywhere and anytime with a very small quota. Helped and employers and companies will also be helped. The method used in this research is to use the method of studying literature or literature by reading many journals related to this research, after that make a prototype so that it can be given an appearance. This research will be able to see whether it is successfully used or not. The problem raised in this research is how to help job seekers find work without leaving the house and being able to search for jobs around the world using only an Android based application that can be done from home. This research produces a prototype system that will be made in the future, so that it can help workers in finding work and companies in finding workers.

Keyword : Application, Jobs, Android, AHP.

I.   INTRODUCTION

In the era of pandemics, we are all done online, many applications are created just because we want everything to be done online. With this, this research leads to How to find work online without having to leave the house and can be done anywhere and anytime. With this application, it can help job seekers in finding work with this convenience, so many parties benefit from the job seekers and the employer can also make a selection without having to spend a lot of money and only need to spend a small amount of money.The system that is currently running is still using the internet as a medium for job seekers but by using your Android application it is much easier because it can be done with smartphone media and can be done anywhere and anytime with a very small quota. Very useful for job seekers who will find work anywhere at an affordable cost.The method used in this research is to use the literature study method using the basis of many journals with a total of 150 journals read and 30 books related to this research. After determining the novelty in this research, a prototype will be made which will assist the readers in conducting this research.The problem raised in this research is how to make it easier for job seekers to search for job vacancies without having to spend a lot of money and without having to go anywhere and can be done anytime so with these various conveniences, there will be many job applications in many companies.In this study will produce a prototype that will be able to make an application program in the form of an Android version and can be developed at a later date with this prototype it will be possible to imagine how this system works and how this system works so that it can help job seekers in finding work.

Nowadays motorbikes are one of the primary needs in Indonesia, almost every family has at least 1 motorized vehicle, not to mention children who are also allowed by their parents to ride motorbikes to be more independent. But without realizing the danger of accidents and crimes such as motorcycle theft continues to stalk the child. The purpose of this study is to create an Android Driver Control application that

can display location data with the help of GPS, driver speed, provide data recording, provide notification of motorbike falling, users can turn on or turn off the motorbike engine automatically through the application.In the first part of system design, it discusses requirements analysis which consists of analysis of functional requirements and non-functional requirements. Functional requirements related to what information must exist in the system. Non-functional requirements are requirements that support system performance including hardware in making applications, namely Android devices and laptops.Users can open the application if they have registered and confirmed email before logging in. To view the location of the vehicle, see the speed of the vehicle, lock the engine, and view the recorded data, it can be done if the user has confirmed the user code on the Profile menu. When the motorbike falls, the user can receive a motorbike drop notification as long as the Internet is active.Google Maps is used to view the location of the vehicle if the user accesses the Maps menu and the Data records page. To exit the application, the user can use the Logout menu in the application. The Driver Control tool functions to store location, speed, fall, and relay data in the database.

The manufacturing stage is a step to change the design that has been made previously into program codes. Meanwhile, the testing phase is carried out using black box testing.The main page display for the Driver Control application has four buttons, namely Maps, Speed, Lock, and Profile. On the menu slidebar there are four menus How to use, Data record, about, and Logout. Maps button to view a map of the location of the motor vehicle. Speed button to view a graph of the driver's average speed, Profile button to edit profile and change password, Lock button to turn off the engine automatically from the application. While on the slidebar menu there is a How to use menu for instructions for using the application, a Data record menu for recording driver data, an about menu to view the application developer, and a Logout menu to exit the application. After filling in the User Code the user can access all menus in the application.Testing on making this application will use black box testing. This test is carried out to show the function of the program made on how to operate and use it, whether the data output is as expected. Application testing is made in the form of a black box test table from each menu in the application.

Tests that will focus on the functional requirements of the software.Based on the results of testing and analysis of making the Driver Control application, it can be concluded that this application is able to display a map of the location of motor vehicles, driver speed graphs, application user profiles, driver data recordings, send notifications when the motorbike falls, and users can turn off or turn on the motorbike engine automatically through the application. This application can be used by several users to monitor a motorcycle that has the Driver Control tool installed, users need an internet connection, and Driver Control hardware to be able to access the application menu.Push Notification is a service that is widely used for notification purposes via short messages on smartphones. The application that will be designed is an application that can send Push Notifications which will later be developed in various fields according to user needs. Lack of knowledge in providing information in real time, results in the information conveyed not being up-to-date, so that in various situations and conditions the information provided is outdated. Push Notification is one of the services that can answer the problem so that no more latest information is not conveyed, with the use of this service every time an information update occurs it will be immediately sent as a notification message, so that the latest information will not be missed. Push Notification services are generally widely applied to mobile applications such as Android and IOS. The largest use of mobile operating systems based on statcounter for 2012 to 2016 in Indonesia is controlled by the Android operating system. Based on these data, the development of the Push Notification application is applied to the Android Operating System as the largest market share today.

II.   RESEARCH METHOD

In this section, we will discuss how this research took place and how the stages of this research were carried out. The first stage in this research is to conduct a literature review by conducting a literature study in many journals by reading these journals so that they can find new problems that can be raised in the future. In this research, the existence of the journal will be able to help direct and find the novelty of this research. The second stage in this research is to find or raise problems that can be raised after conducting a literature

review. The third stage in this research is to conduct research and create a prototype system that based on Android so that it can be viewed As an example to be seen in the future after that it will produce a system and this research is completed so that it can provide new novelty in this research and can be used for the future.
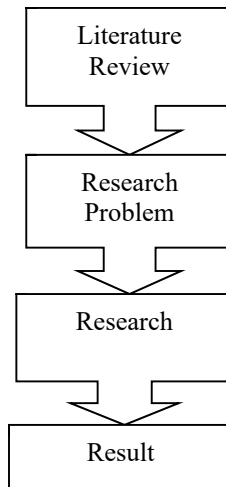
Fig 1. Research Method

III.   RESULTS AND DISCUSSION

In this section we will discuss how this system runs and how the prototype was made so that it can make it easier for users to run the application. There are pictures and explanations that can be seen below.Based on Figure 2 below, it will be explained that the flowchart has a flow, first is start, then install the application, after the application is installed, the application is opened, then sign in, if yes enter the menu, if not it will finish, after the menu then search Employers will carry out a job search that matches what they are looking for.


Fig 2. Flowchart

https://ijersc.org
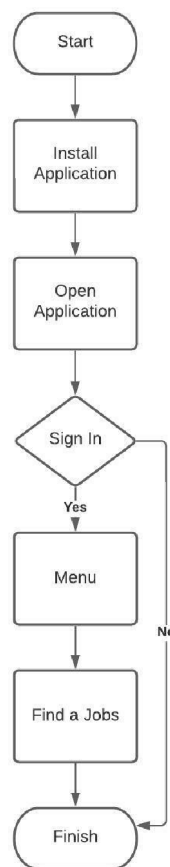
Based on Figure 3 below, it will be explained as follows, Figure 3 is a display image of the main menu, the initial display of the test apply jobs application, with this display, you can enter the main menu and after filling in the username and password, this display is the initial stage of a Prototype application test apply jobs.


Fig 3. Front Layout

Based on Figure 4 below, it will be explained as follows, Figure 4 is an image for registration if you want to use this application, in Figure 4 there are menus such as username, password, name, address, origin, date of birth, and place of birth, Then there are 2 back button, and register, that is the display of the register menu in this application.
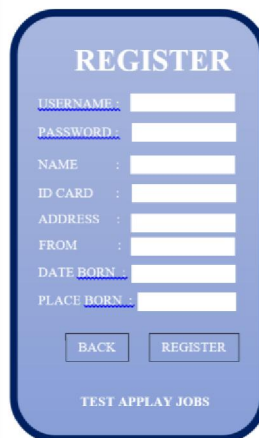

Fig 4. Register Layout

Based on Figure 5 below, it will be explained as follows. Figure 5 is an image that will explain about the menu of this application. The menu of this application is only two, namely register if clicked it will enter the register menu then if I wait for the main job then he will look for what job which is suitable for mothers of job seekers and enter the office view.

Fig 5. Menu Layout

https://ijersc.org
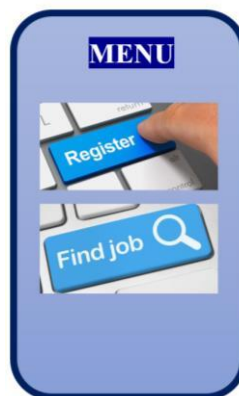
Based on Figure 6 below, it will be explained, that Figure 6 below is a map image of where to go to look for job vacancies. About this map, finding a job will make it easier to locate a job in a job search so that it can be easily reached if you have a job call.
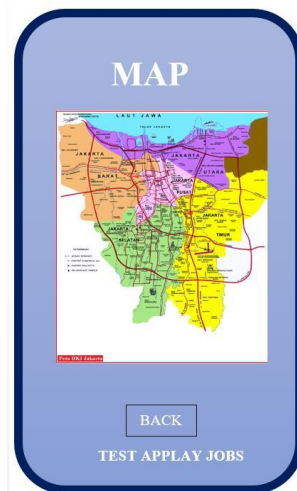
Fig 6. Research Method

Based on Figure 7 below, it will be explained that the image is taken from the settings menu. If application users want to change data such as username, password and data, when the menu exists, users can edit in the application and change it immediately.

Fig 7. Research Method

Based on Figure 8 below, it will be explained that, Figure 8 is where the office menu is, the menu shows job calls or the types of calls they will get by job seekers, so that job seekers can know what jobs and what their goals are in doing a job search.

Fig 8. Research Method

https://ijersc.org

IV.   CONCLUSION

Based on the results of the research above, it can be concluded that the results of making a successful job search prototype with this prototype can be the basis for further research in making the Android version system so that people can easily find work through the Android version of the application. Therefore, with this action the novelty of this research is how to make an application that is useful for the wider community so that it can be used in conducting job searches and making it easier for companies to find their best employees.

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