Abstract —Writer make this mobile application to make Binusian easily using Binusmaya website on smartphone. With this application, smartphone user can get faster information from Binusmaya without opening Binusmaya website using browser. In make this application, writer using observation methodology and interview. In observation, writer see directly feature-feature in Binusmaya website, with this method we know what kind of features will be implement into our mobile application. Beside of that, we are using interview method. We are doing the interview with IT Directorate staff about the system and databases of Binusmaya. We do the interview to get visible image of Binusmaya system. We decided to make this Binusmaya mobile application because of the difficulty to get some information from Binusmaya if using browser to access it on smartphone. One of the constraint when accessing Binusmaya website through browser is too slowly when load the whole page of website. This constraint can be handle by only showing the most important information. By doing that, the smartphone will load the content faster. The other constraint is there are so many scroll and click that need to do to get the information that we want. By using this application mobile, writer try to optimize the page navigation that cause scroll and click is minimize. By this solution, this application highly expected to be the solution for smartphone user to get access to Binusmaya website. So user will be get the information from Binusmaya easily and faster.

I. INTRODUCTION

Binusmaya website nowadays were used by all of BINUS UNIVERSITY student and lecturer. This website provide the information of lecture, for example the information of lecture schedule, attendance, score, forum and more. Together with the development of technology nowadays, mobile technology is develop rapidly. This case can be seen from there’s so many smartphone. Because of this case, we make this Binusmaya mobile application.

This application to expected will make smartphone user easily to get some information in Binusmaya without open it through the browser. On behalf of the constraints said before, we are trying to make special application for smartphone that:

• Using simple scroll and click concept
• Application that using less typing
• Display the most important information in the main menu
• Make user friendly interface
• Cutting down the information-information that not too important so it will load faster.

Binusmaya is a system based on web that using for manage and hand over the materi by online to user, especially for student of BINUS UNIVERSITY. The problem that appear when accessing Binusmaya from browser in mobile phone is there are some not important information but still load by the browser so it make slower.

The example of information-information or menu-menu that not to important is

• Menu Language Center
It said not to important because of it accessing from mobile phone so it’s reputed not to important to show it on mobile Binusmaya application.

Objectives:
- Make user of the Binusmaya mobile application easily using it
- System that more effective because it more focus

Benefits:
- Easier to get information from Binusmaya for application mobile user
- Make student more flexible to accessing Binusmaya website

Problems faced:
- The loading to access a Binusmaya website is too slow if it is accessing from browser in smartphone.
- Scroll and zoom is needed to see the full content of Binusmaya website if it open from browser in smartphone.
- There is so much unimportant information that show when accessed from smartphone.

II. Method

The study begins by collecting data by:

1. Analysis Method
   1. System/Information Engineering and Modeling.
   Writer get the need of Binusmaya database from webservice that given so can be used and we can transform it into mobile application.
   2. Software Requirement Analysis.

   The requirement that we used is a opensource software name eclipse and android jdk that can be easily to get. Writer choose using eclipse because this programming language using java and writer using IDE eclipse to do coding.

3. Design
   In the process, writer get the design that designed by IT Directorate BINUS UNIVERSITY and ready to be translated into programming language

4. Coding
   Coding progress is doing based on java and using webservice to get the data from the Binusmaya website. By doing this method, we can get it’s in real and appropriate with the data that used on Binusmaya website.

5. Testing Verification

6. Maintenance

2. Design Methods

   DFD Level 0
   In this DFD level 0, first, user request for the information that he/she want to the system. Then, system get the requested information from webservice. After that, system give back the information that requested before.

   Bagan 1: DFD Level 0
DFD Level 1
In this DFD level 1, it explain more detail. First, user must fill the username and password to do login. Then system check the username and password using webservice. If it’s wrong, system will give back to user to do relogin. If it’s true, user will be redirect into main menu.

DFD Level 2
In this DFD level 2, it explain more complex into the system. User after login can access all of the menu. In this case, user can do view inbox to check inbox. System will connect into webservice to get inbox information than show it to user. As well with create message and delete message, system will consume webservice to generate command. Another case in view my class. User request the information to view class, then system will respond by consume webservice to get information needed by user. After get the information, system give back the requested information to the user.

b. Making Use Case Diagram [1]
This is the use case diagram that represent all of menu in this application. There are two subject here, student and lecture. Both of them can access the menus. The menus are login, create message, view message, delete message, view class list, view class detail, view class topic, view class topic detail, view class task, download task, upload task and upload answer.
III. RESULT
This mobile application can be run from Android smartphone.

IV. CONCLUSIONS
The conclusion of this journal cannot be reach because of this application is still in developing progress and cannot be done by this period. In this period, writer already make the user interface of login menu and class menu. And the testing is already run, and it’s run well. For the future, writer will continue this application as thesis topic.

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REFERENCES

