TCC3141 - Cloud Computing Reflective Essay of the Project

Experience working on this project

In this project, we are utilising MIT App Inventor, which allows us to create apps for Android phones using a web browser and either connect to a phone or an emulator. Our work will be saved on the MIT App Inventor servers, allowing us to maintain track of our projects at all times. This function allows us to allocate the work among the members of the group. We can download the file locally and share it with other members of the group via Whatsapp or Discord. The main disadvantage is that we are unable to share our work on the server. In other words, only one member of the group can participate in the programme at a time. The others must wait and can only do their part once the other members of the group have finished their work. While one of the group members is doing the work, the others will be participating and discussing to make sure there is no error in the programme.

The App Inventor Designer is very useful as it comes with icons. We can just drag and drop the icon inside the page that we want to create the interface. Moreover, it allows the creator to see how the design of the application will look like. Every icon has its own function and can integrate with other icons. However, there are no clear descriptions that give an understanding of all the icons function. We have to search for it on the Internet or look for a video on how to use it. Sometimes there are also icons that do not have any description at all even on the internet. When we want to use the icon, but somehow it does not work like we want it to. For example, the vertical scroll layout is not functioning right as we could not scroll the page when the information on the screen is exceeding the size of the page.

The App Inventor Blocks Editor, where you assemble program blocks that specify how the components should behave. You assemble programs visually, fitting pieces together like pieces of a puzzle. Moreover, this kind of application or program eases us in the process of building the app for our cloud project, the App inventor also consists of various integration of software like a webhelper, database and most importantly for this project is the cloud storage. We used several functions like webhelper to visualize data like charts to interact with the user. Also the application itself allows us to build a fully functional program for smartphones.

Fun thing while doing this project is that the app we developed appears on the phone step-by-step as you add pieces to it, so you can test your work as you build. When you're done, you can package your app and produce a stand-alone application to install. The App Inventor Designer enables us to real time monitor our design with the function called Ai Companion meaning that the design or function of our application will be presented at our smartphone display and then we can see live changes made by us also allowing us to try to fit the program according to our needs.

Roles and contributions of each member

Name	Student ID	Roles and contributions
Muhammad Irfan Syahmi bin Mohd Sazni	1181101191	- Act as as team leader to assign and distribute task for the group members - Do the "screen 2" which is the Bar Chart - Manage to create a bar chart based on the name inserted in the BMI calculator - Cooperate in improving the user interface of the BMI application - Test and check for any syntax error in the application
Muhammad Haiqal bin Bahrudin	1181100453	- Group Member - Do the "screen 2" which is the BMI calculator page - Manage to implement cloud storage in the application by using a database called as Tiny DB - Manage to delete the records or information inserted by the user from the database. - Check for some syntax error occur in the application - Do the user interface in terms of colour selection and resize the button. - Improvise the part where the user will key in their information (cannot insert the same name).
Mohammad Hizzudin bin Mohd Hanafiah	1181101153	- Group Member - Responsible of creating extra function which is Simple Pedometer - Teach other member on how to code (create blocks) and create interface in MIT App Inventor - Cooperate in improving the user interface to become more user friendly and easy to use

Muhammad Hakimi bin Hamidzul	1181101188	- Group Member - Update the Github - Create logo for the MyBMI apps - Improving the user interface of the apps - Cooperate in creating a bar graph for BMI value in "Screen 2" - Application testing
Muhammad Alif Iskandar bin Eddie	1171103647	- Group Member - Error fixing and features improvement - Application testing - Checking members' work before submission - Publishing the program on github - Improving interface