Chapter 31
Development Tips And Tricks Mobile Application For Beginner User Of DSLR

Mohamad Aliff Sanusi¹, Nor Azlin Rosli²

¹, Universiti Teknologi Mara (Melaka) Kampus Jasin, Jasin 77300, Malaysia

Abstract
This research was about developing a mobile application with the implementation of tips and tricks in photography for beginner user to use the DSLR camera. The problem statement is most of the user use full automatic mode because they lack of knowledge to setting their camera using the manual mode. The project requires a mobile application to detect light intensity and convert the light intensity to shutter speed, aperture, and ISO. There were three objectives that need to be achieved in this project which were, to gather and analyse the user requirement, to design the Analog Meter and lastly to develop the Analog Meter system. This application focuses on beginner user to guide them using the manual mode. This project used the Mobile Application Development Life Cycle (MADLC) which consists of three phases which are the identification phase, the design phase and the development phase which each of the phases had its own activities involved and the deliverables. Each phases achieved each objectives of the project. Last but not least, hope this applications can help beginner user using DSLR camera.

Introduction
The Digital Single-lens Reflex cameras (DSLR) is a camera system with a compact body and the possibility to use variety of lens (Kolari & Forsgard, 2012). Based on research, there are several problem happen to the beginner user. Most of the people today like to buy a DSLR camera to capture their moment. Most of them use full automatic mode because they lack of knowledge to setting their camera using the manual mode. When the user uses the automatic mode they just press the shutter button to capture pictures but sometimes the result of the picture was not according to their taste because the automatic mode is own fixed setting. It will be different if the user use the manual mode because by using manual mode user can adjust the setting of shutter speed, aperture and ISO sensitivity according to their taste.

Content
The system focus on detecting light intensity and guide the beginner user using the setting DSLR camera. That have some characteristics of the system:

A. Android Studio and use operating system android
The Analog Meter application are using the android Java Programing. This applications develops be the mobile application for the user. The platform for developing the mobile application is by using the Android Studio to design and construct the code. Besides that, focuses operating system for this system is android.

B. Detecting light intensity
The light intensity detect by the sensor of smart phone and the reading measure by using LUX parameter. After the light intensity be detected by sensor of mobile phone, the reading will convert to Aperture, Shutter Speed and ISO. So, user just click the button hold to pause the reading and user can follow the guide give by the system.

C. Give the guide tips and tricks about photography
The system also help a beginner user using DSLR camera in manual mode. If the light intensity below than measurement of good light intensity, the system will give the message “The place too dark” and if the place have good light intensity, the system will give the message “The place have a good light intensity”.

103
Conclusion

Light intensity is important to capture the good picture. In DSLR camera, the reading of shutter speed, aperture, and ISO must suitable with the light intensity to get a good quality of the pictures. The Analog meter can help and guide the beginner user to capture the pictures. Based on observation done, the sensor of mobile phone and DSLR camera are similar to each others. So, the user can setting their camera according to the light meter reading by the application.

References

*Please use APA Style. Refer: https://owl.english.purdue.edu/owl/resource/560/01/*