

QUESTOCR: SWIFT EXAMINATION QUESTION GENERATOR

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ABSTRACT

Past year examination question has become one of the useful source for the lecturers in the teaching and learning method. These past year question will be used as a references by the lecturer to create a new question for the examination paper. However, the lecturer found it difficult to create question using previous examination paper because they have to rewrite or redraw the question again. Thus, one method that can be used to solve the problem is by using Optical Character Recognition (OCR). OCR is a conversion from text paper into a digital text form. OCR is widely used in the recognition of plat number, exam paper reader (EPR) and even cheque number. QuestOCR is a mobile application that implement the use of OCR. QuestOCR can be used by the lecturer to capture and insert the question into the mobile phone for examination use. The goal of the research is to help the lecturers which find difficulties in creating question using previous examination paper. Three objectives were highlight in this research. First objective is to identify requirement for OCR implementation in mobile application for question duplication in examination paper. Second objective was to develop an Android mobile application implementing OCR for question duplication. Third objective is to evaluate the effectiveness of the implementation of OCR in mobile application usage using TAM. Literature review has been conducted to explore about examination paper, Optical Character Recognition, mobile application, mobile database and acceptance testing for mobile application. In this project, two hardware were being used which are a laptop and mobile phone. Android Studio was installed into to laptop as the tools to develop QuestOCR and SQLite was used as the database. QuestOCR were evaluated using TAM testing by lecturers of UiTM Perlis. Two aspects were evaluated which are perceived usefulness (PU) and perceived ease of use (PEOU). The result shows 36.67% of the users were satisfied that QuestOCR is a useful mobile application and it is easy to be use. In conclusion, QuestOCR is flexible, convenience and reliable to be used by the lecturers. However, to improve the effectiveness of QuestOCR other character recognition or methods could be used to collect the characters, numbers or even pictures or tables. Other than that, this research can be improvised by combine the mobile application with web application.

Keywords: Examination Question, Optical Character Recognition, Mobile Application, SQLite.