

# **Cheque Transaction Using Android Application**

A dissertation submitted to the  
Computer Science and Technology Degree Program,  
Uva Wellassa University  
in partial fulfillment of the requirements for the award of the  
Degree of Bachelor of Science in  
Computer Science and Technology

by

**BALENDRAN ILLAMARAN**  
**UWU/CST/09/0014**

**Computer Science and Technology Degree Program**  
**Uva Wellassa University, Sri Lanka**

**October 2013**

## **Abstract**

Nowadays in every banking industry using computer based applications to increase the quality of work and time efficiency. In order to improve the before mentioned areas, accuracy, reliability, security and speed of works has to be increased, if the particular bank has to win the competitive banking. In other words, dependency on human effort has to be reduced or new technologies have to be implemented.

There are many banks in the world which handle large number of transactions at the same time. The banks use different data handling mechanism to manage all the cheque related data. The security and time are the major issues to be considered at such situations. As a solution, computerized technology has taken a very important part. To increase the efficiency of cheque transaction and managing mechanism with the existing system a dedicated system is needed to be implemented. So my system has done to fulfill all those expectations.

This system is basically its handle cheque transaction with image processing, android application and GSM technology rather than the currently existing system. This System is a complete standalone application that is built to cheque transaction activities. This system is capable of sending image of cheque to server from android application. One of the special features of this system is able to process the information of the cheque. The system is able to send message to cheque owner's mobile and will do transaction based on his or her reply.

The entire system is created using the Java, Android and GSM technologies. The cheque upload is done using the Android application with PHP. There is an interface which is done using Java, between server and client. The interface also handles image processing which is done using Node.js and Tesseract OCR library. The SMS part is done using GSM technology with java. The database is created using Wamp server.