THESIS

VEHICLE MANAGEMENT SYSTEM FOT AUTOMATIC TOLL APPLICATION

Acknowledgement

Abstract

Introduction

Purpose

Audience

Motivation

Objectives

Outline

Research background

Introduction

Literature review

Current toll problem

System architecture and interfaces

General system

E-wallet application

Central database

Vehicle profile device

System implementation

E-wallet Android application

Activities and fragments management

Client socket interface handler

GPS tracking service

Bluetooth interface handler

Client Encryption and Decryption service

Socket and Sqlite based central server

Server socket interface handler

Sqlite database handler

Server Encryption and Decryption service

Vehicle profile and notify application

Virgin registration service

Acceleration sensing handler

Bluetooth interface handler

System feature results and evaluation

Signup virgin vehicle

Driver alert feature

Driver registration and de-registration

Automatic paying fee feature

E-wallet credit management

Security data exchange

Limitation and future improvement

Conclusion