

The D.V.E.L.

ITC539: Develop Mobile Applications



WELCOME

Presentation of Elizabeth H. Burgess 1150739



● Introduction

Helen Burgess, student.

This is the final assessment piece for ITC539: Develop Mobile Applications.

Presentation Agenda

Put a relevant subtitle in this line

Introduction



About the App

About the Platform



Tools & Techniques used

Device Capability



Programming Aspects

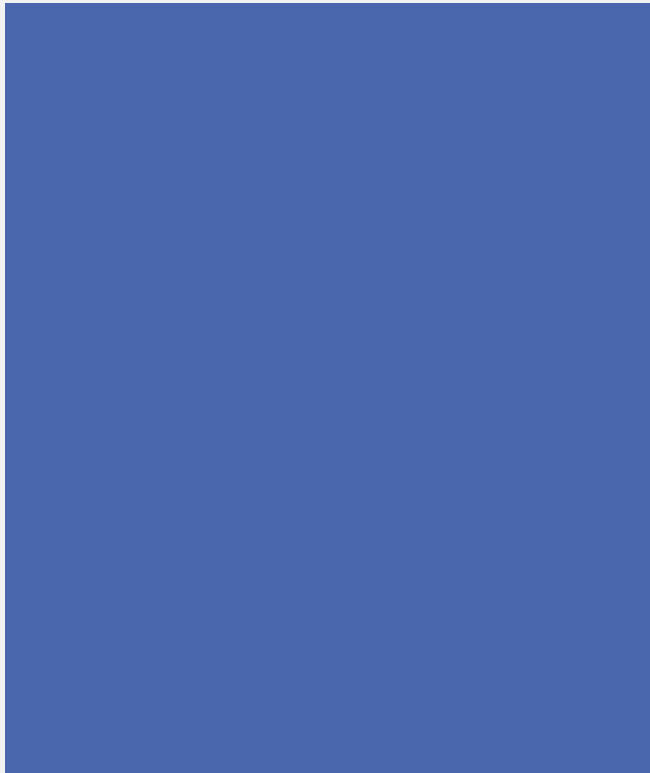


Use Case Diagram

Class Diagram

About the App

The devil is in the Detail



The Digital Vehicle & Expenses Logbook or The D.V.E.L. is a mobile application to:

- Record trips conducted in a vehicle whether for business or private reasons
- Record all expenses to do with the vehicle or with the business side of trips.
- Provide reports for Fringe Benefits Tax and the End of Financial year Tax returns.

The Platforms

Development and Mobile Device

The Platform

Why Xamarin?



Xamarin allows for the porting of code between platforms such as iOS and Android.

This enables the development of an application that in one language C#, using the same SDK's as the native environments whilst not having to learn new languages such as Java or Objective C to port the code into the other platforms.

This provides a programmer with C# experience more flexibility in what they can create and for what environments to create.

The Platform

Why Android?



Research

Android has the greater market share in regards to devices 76% as of 30 June 2015



Community

There is a large community of developers if help is needed.



Sound

Access to information about writing Android apps online



Satisfaction

Creating something that has a business use

The application is aimed at Android Lollipop yet backwards compatible to Android Kit Kat.



Platform Capabilities



.Internet Access
Wi-Fi
Bluetooth



Material Design



Battery Life
Power for the Long Haul.



GPS Sensor



Touchscreen



API 19 – 22 compatibility
Open GL2
ARM CPU,

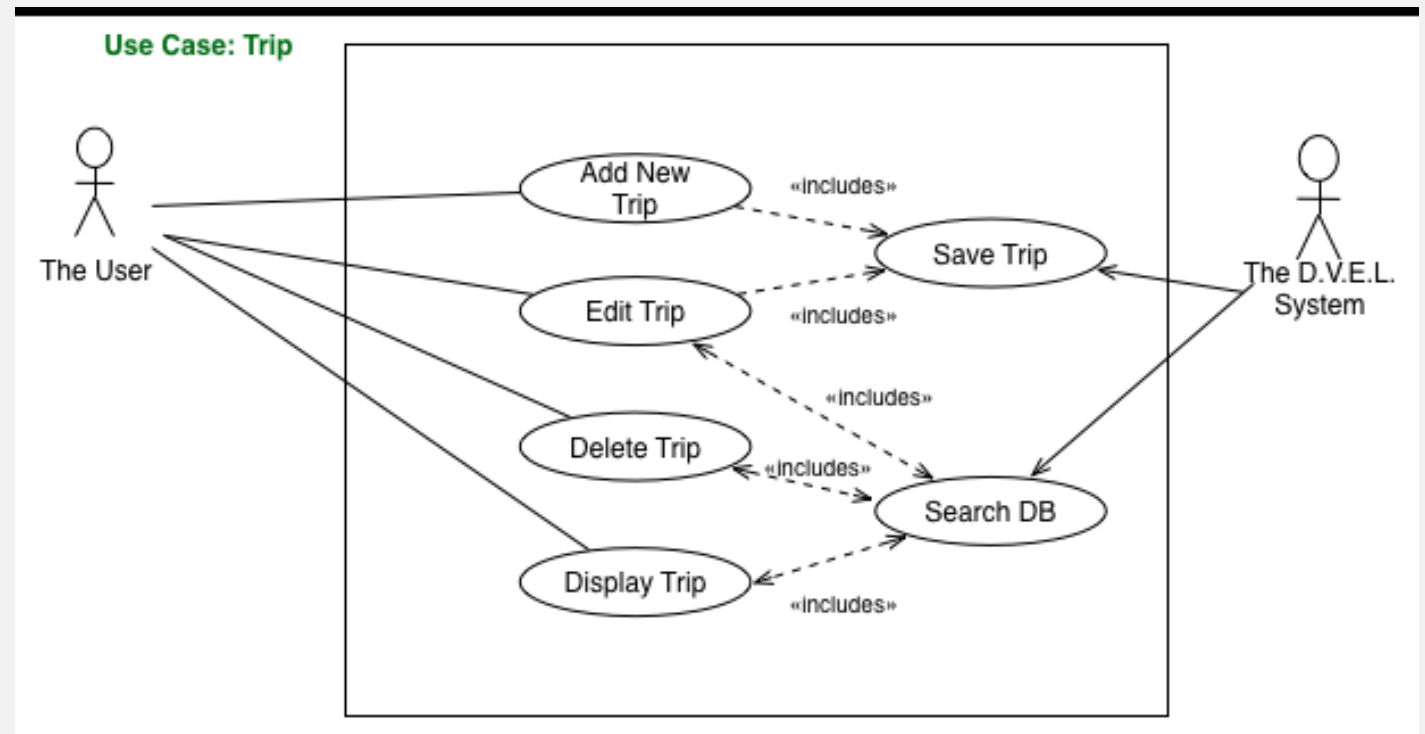


Programming Aspects

Use Case and Class Diagrams

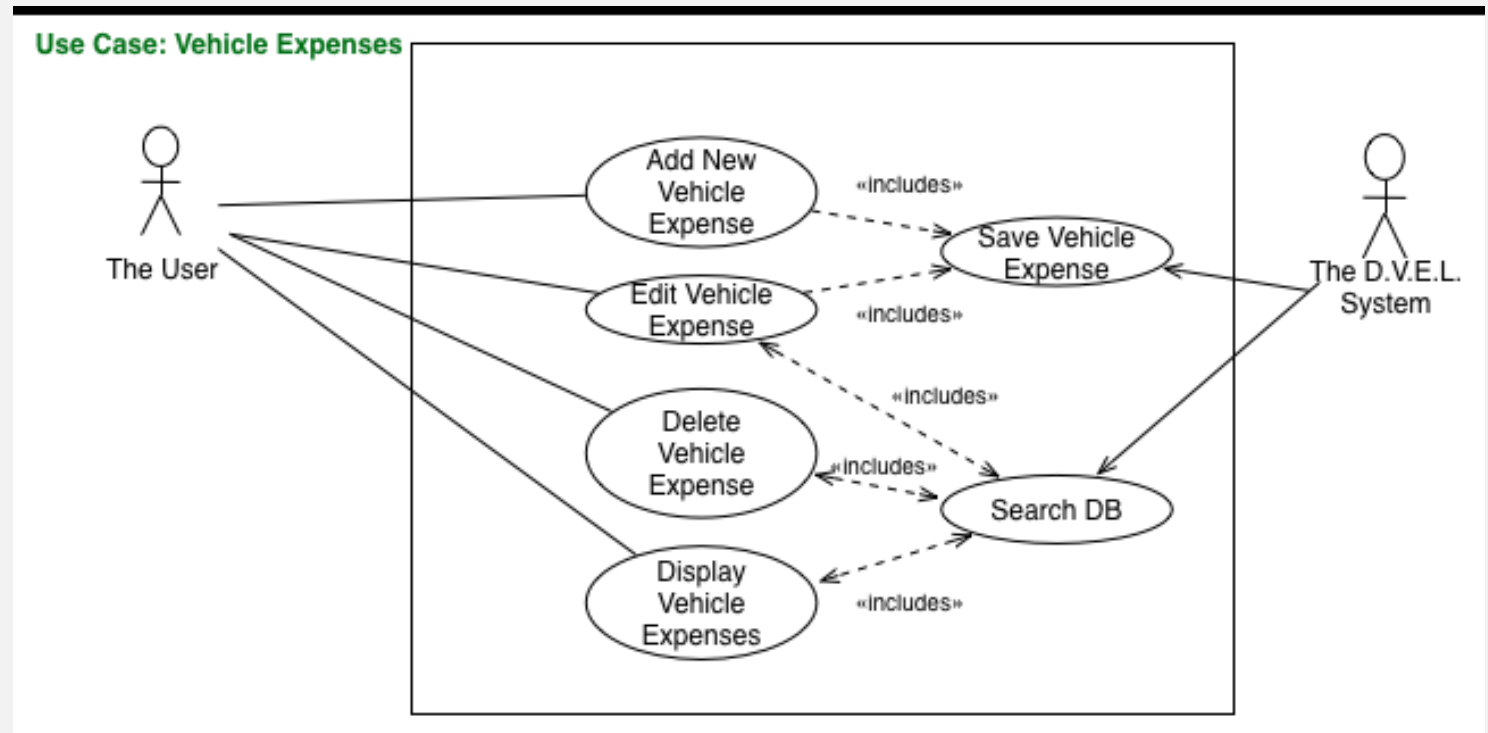
Use Case Diagrams

Trip

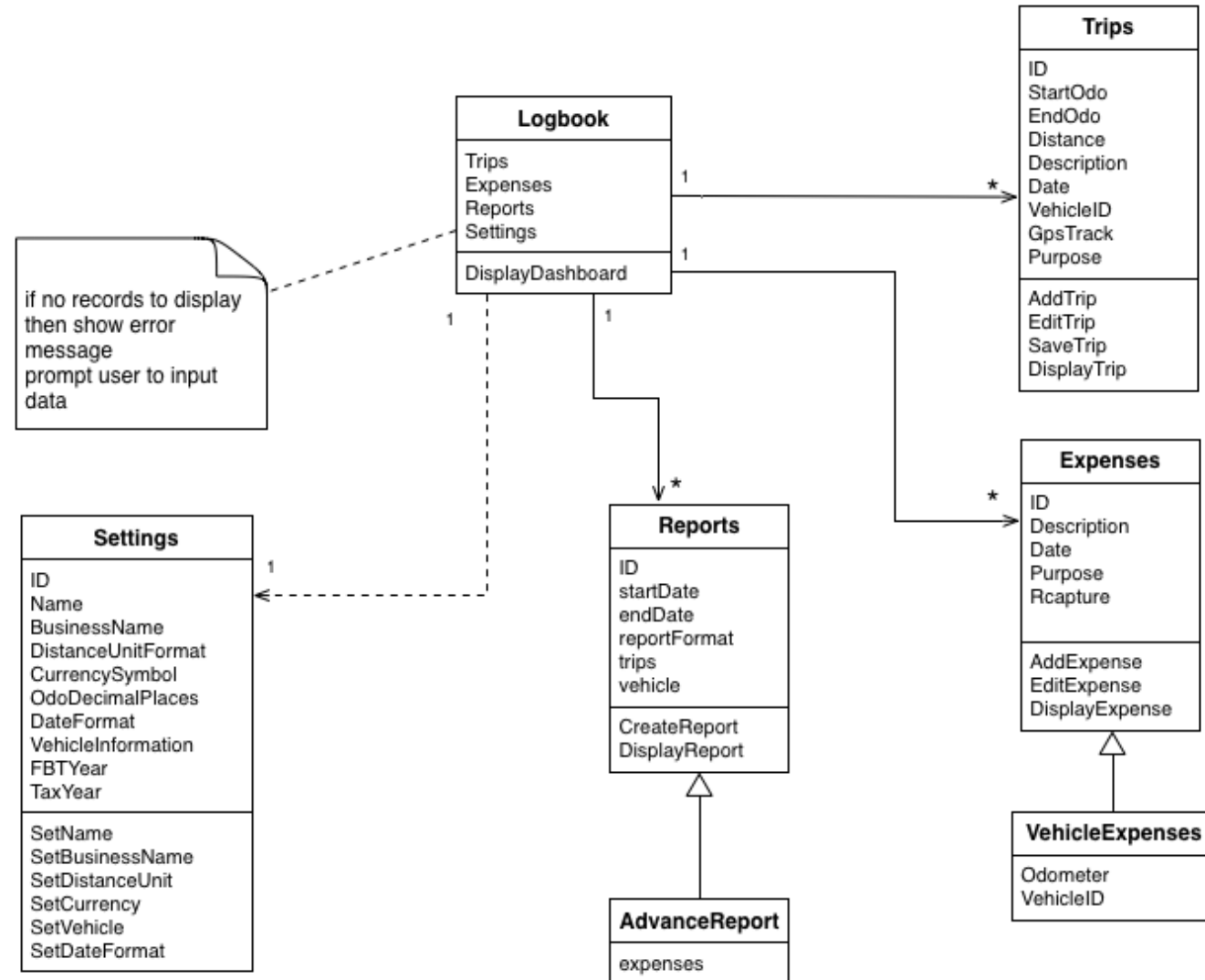


Use Case Diagrams

Vehicle Expenses



Class Diagrams



Interface

