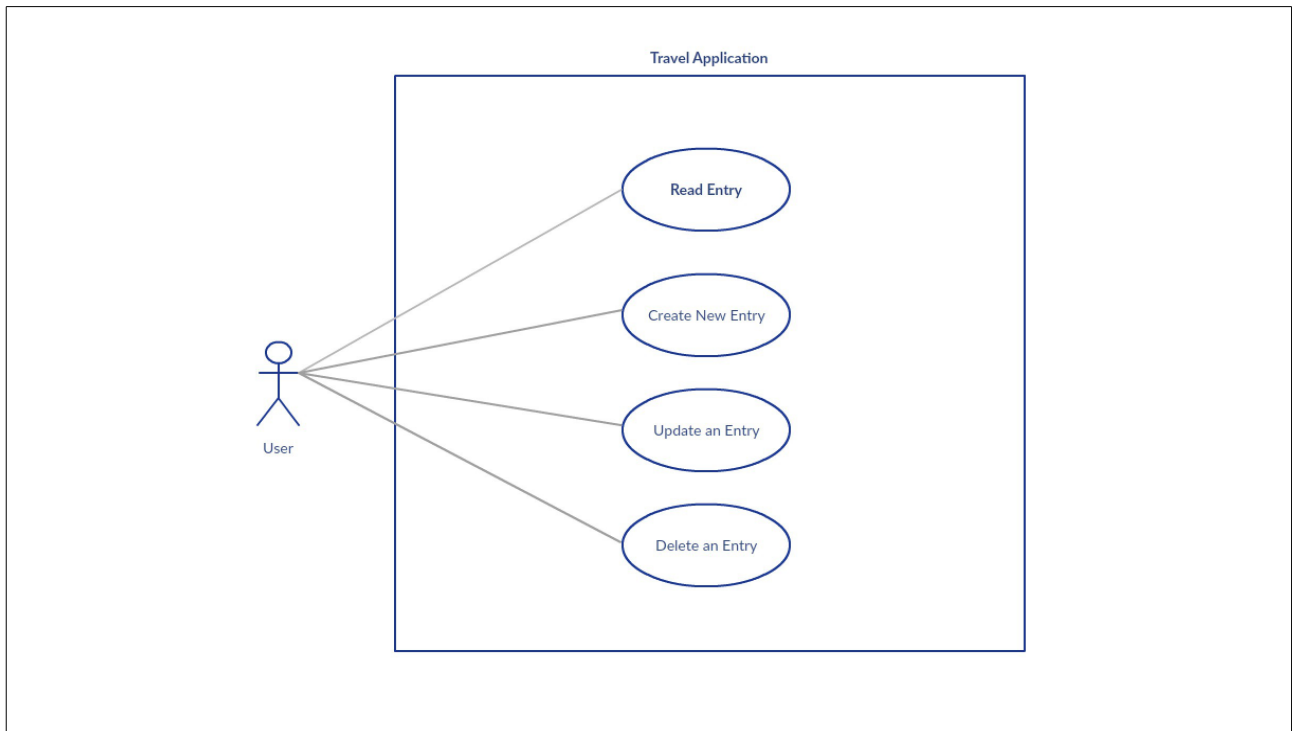


## Evidence for Analysis and Design Unit.

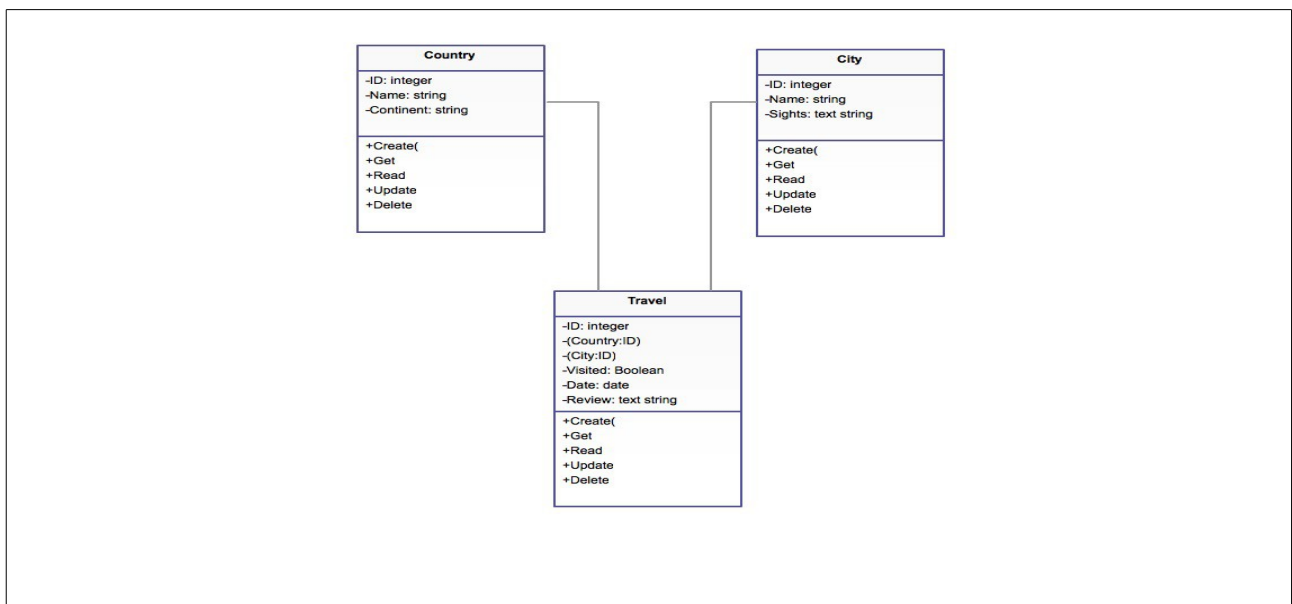
Hamish Hoad

Cohort E-21

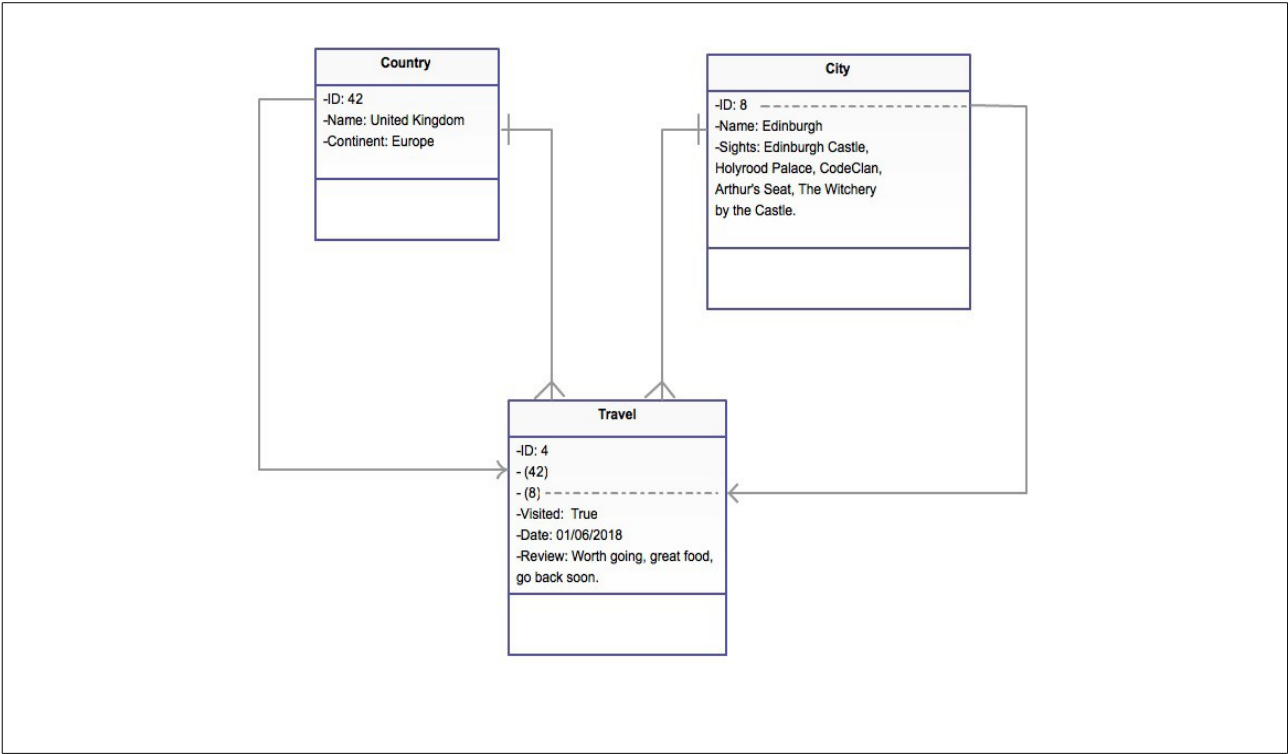
### A.D.1 Use case Diagram



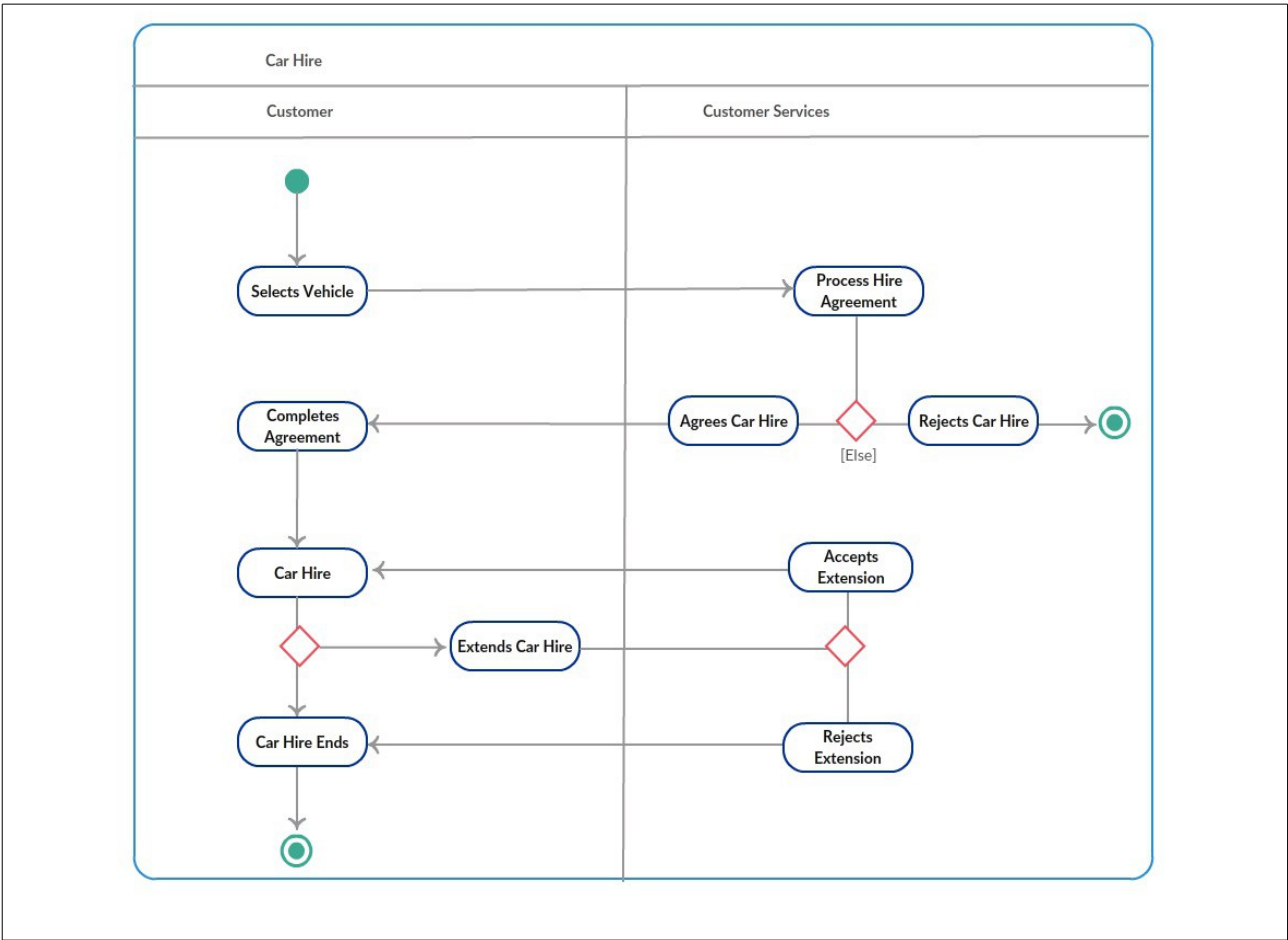
### A.D.2 Class diagram



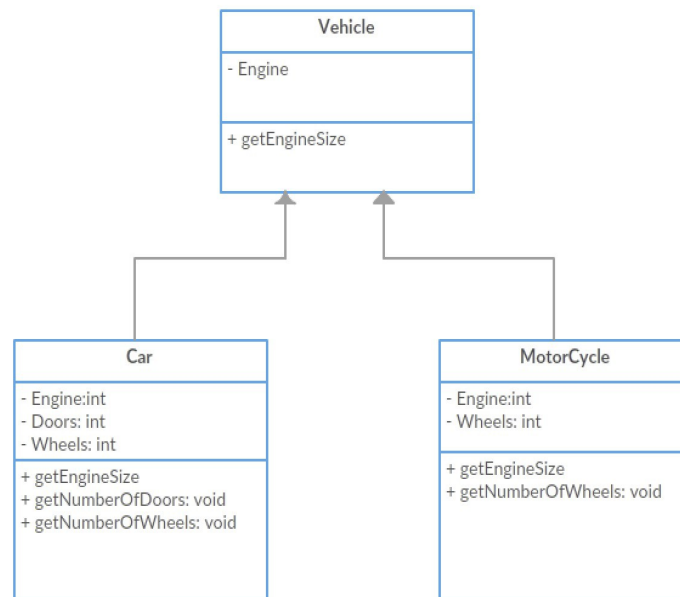
A.D.3 Object diagram



A.D.4 Activity diagram



## A.D.5 Inheritance diagram



## A.D.6 Implementations Constraints

### Implementation Constraints Plan

Topic	Possible effect of constraint on product	Solution
<b>Hardware and software platforms</b>	The users of MS Windows operating systems cannot use the product which limits sales to Mac and linux users / customers.	Develop a download for Microsoft Windows to use the product on all systems.
<b>Performance requirements</b>	The products programming language can cause Microsoft Windows operating systems to run slowly.	Ensure the latest version, 1.9.1 is being used to optimise the operating system.
<b>Persistent storage and transactions</b>	The product uses local storage, a feature of HTML5 that allows information to be stored in the users browser however this is not a secure way to store sensitive data.	Use a server side session to store any sensitive user data. Optimise code and monitor any changes during development.
<b>Usability</b>	The products flashing images and moving patterns could trigger Photosensitive epilepsy (PSE).	Implement UX design.  Add a warning to the user screen prior to the creation of images.  Ensure the html and CSS themes prevent moving patterns.
<b>Budgets</b>	The budget is sufficient for the minimum viable product but not for all the extensions.	Proceed with the minimal viable product and discuss extending the budget with the client to complete the products extensions.
<b>Time limitations</b>	The product must be built quickly as a fixed deadline for completion has been set for 09:00 on Friday 11 May 2018.	Work in sprints and set a daily schedule to complete the minimum viable product ahead of the deadline.  Complete extensions to the product only if there is time remaining before the deadline.