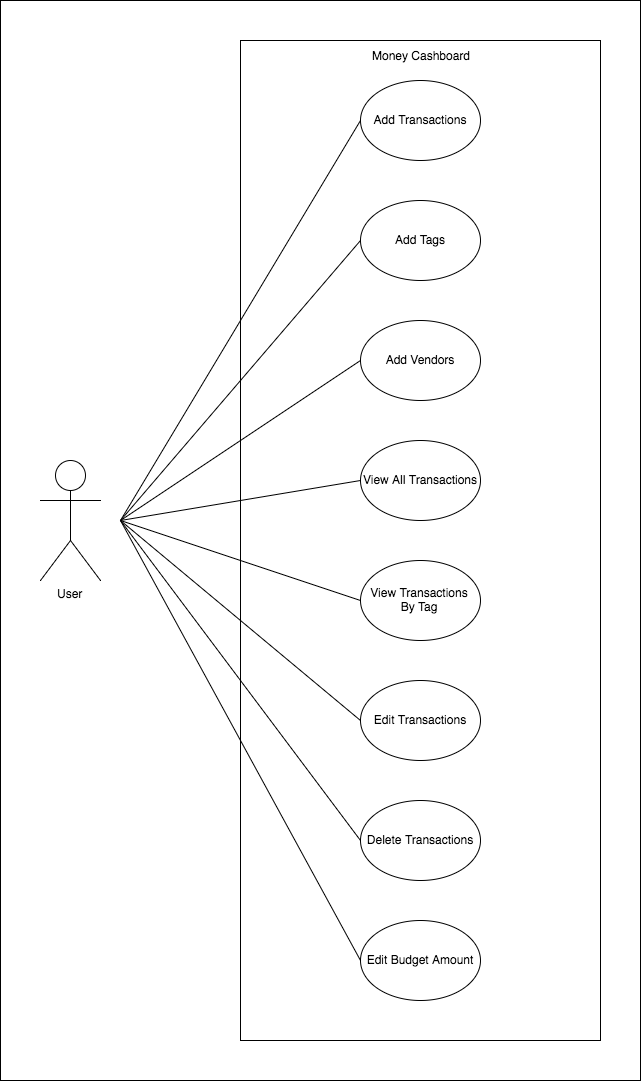
# Analysis and Design Unit – Evidence

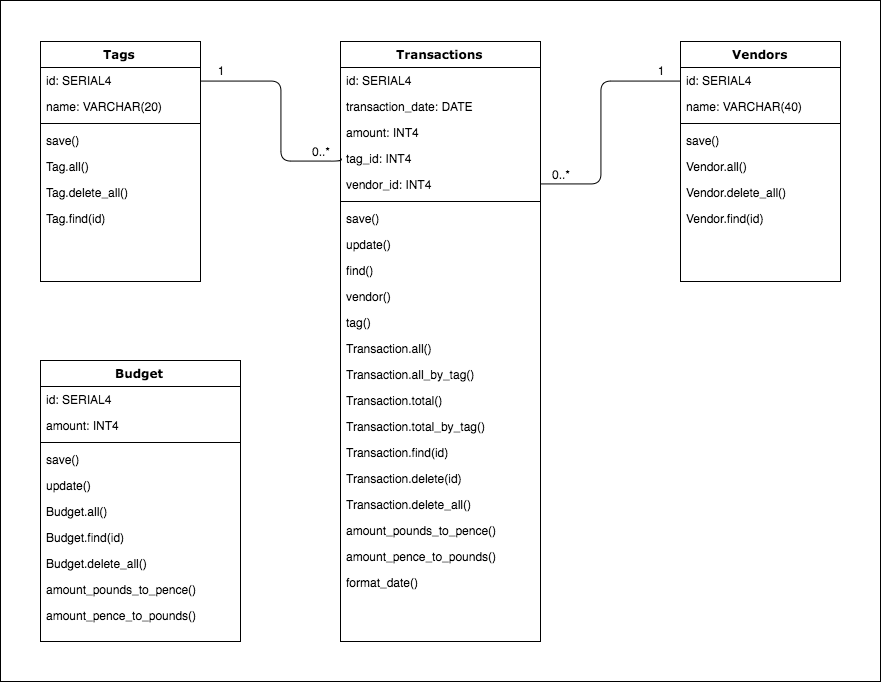
## **David Ellis**

## **Cohort E18**

## 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 Implementation Constraint Plan

|  |  |  |
| --- | --- | --- |
| Topic | Possible Effect of Constraint on Product | Solution |
| Hardware and Software Platforms | The application can only be hosted on Windows based servers | Ensure that the deployed application is hosted on servers with the correct operating system |
| Performance Requirements | The application must be able to cope with differing levels of user numbers at different times. If load balancing is not implemented correctly, users will experience delayed loading times of the application | Ensure that the application is hosted on cloud services servers with the correct load balancing implementation |
| Persistent Storage and Transactions | The application will only work with SQL databases | Ensure that the selected cloud services implementation has access to relational database instances |
| Usability | Users may not be able to experience using the application in a way that suits them | Ensure that documented user experience design considerations are fully implemented in the application |
| Budgets | Exceeding the budget may lead to future versions of the software product being below quality standards | Ensure that the selected cloud services service level does not exceed the agreed budget |
| Time Limitations | Long deployment times will lead to down-time of the application, which will in turn lead to customer dis-satisfaction | Ensure that the application can be deployed to the selected cloud services implementation within the agreed timescale |