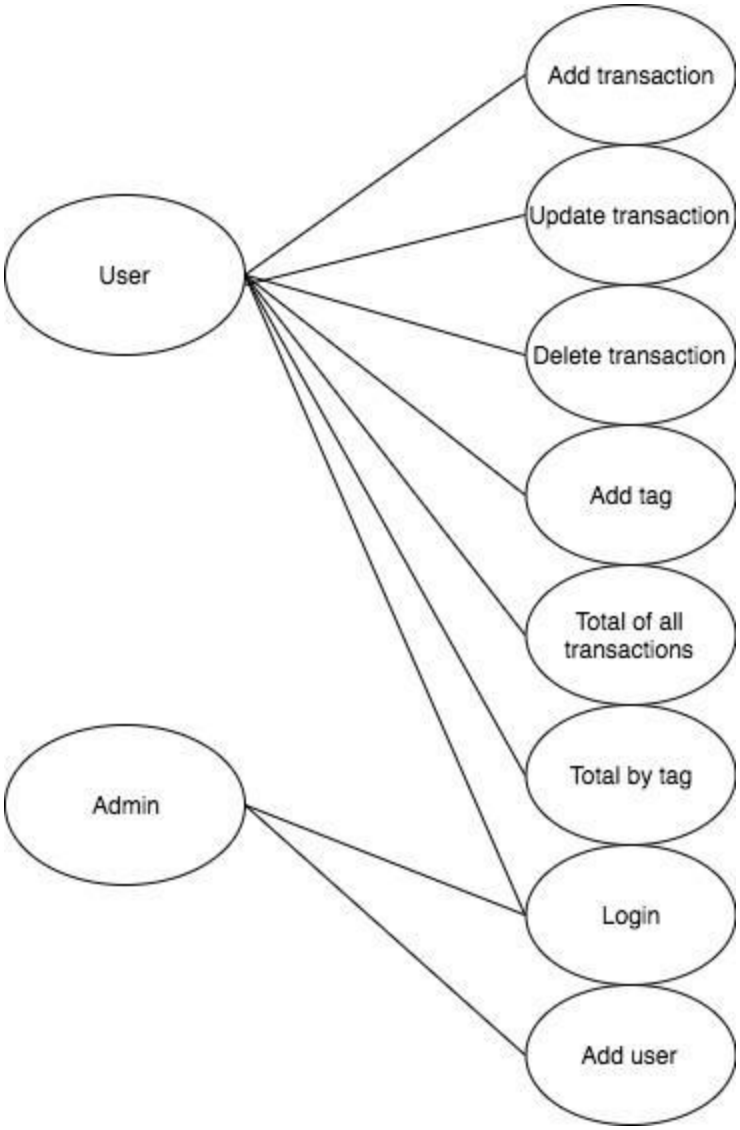
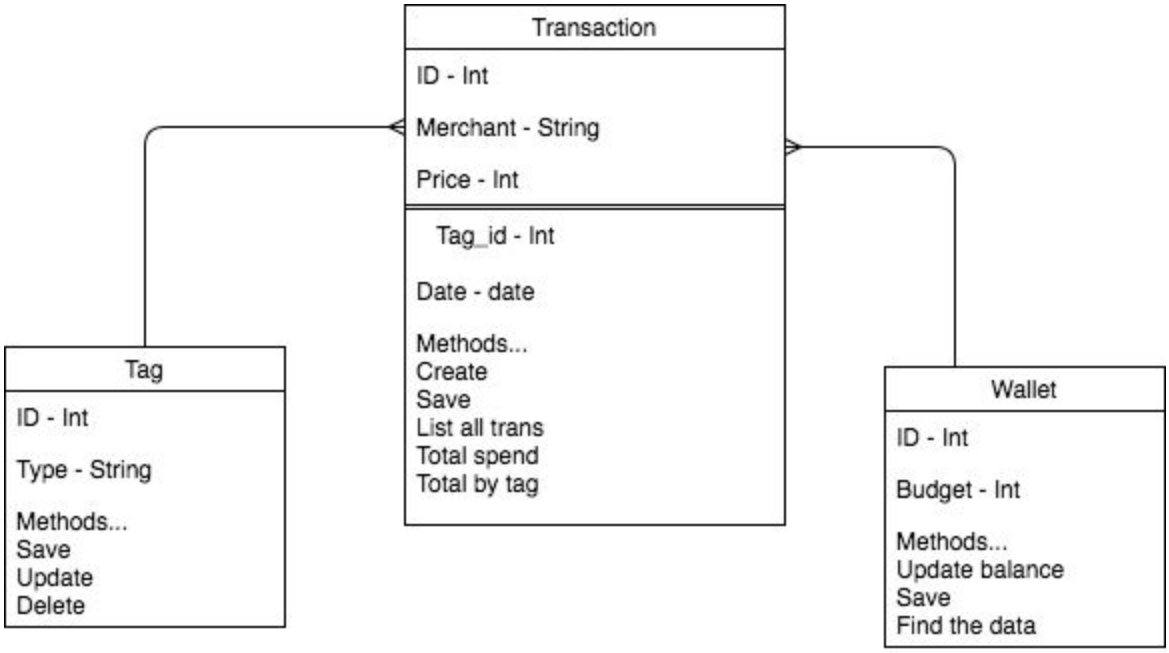
Stacey Napier Analysis and Design PDA Evidence

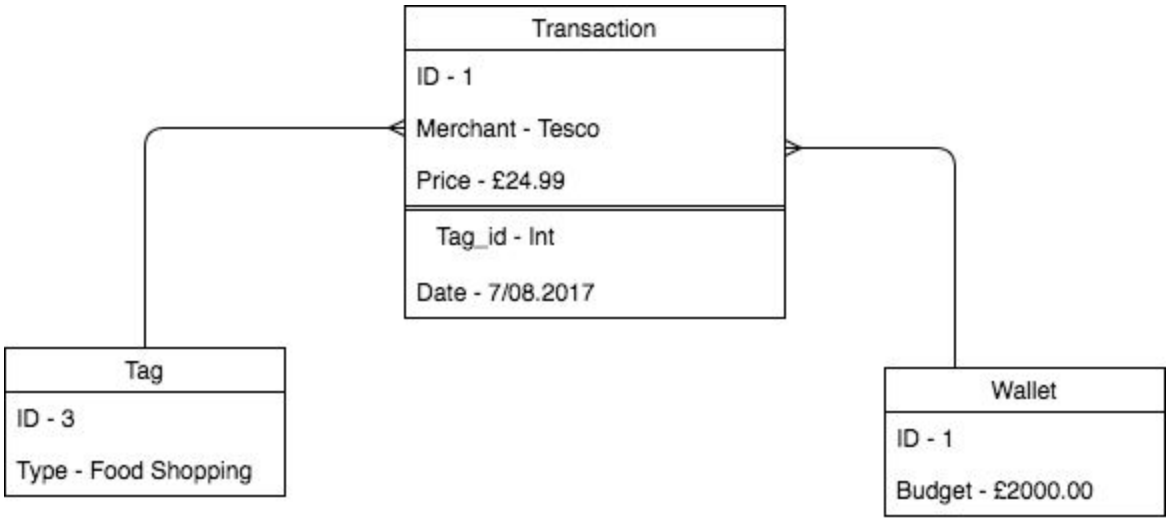
AD1 Use Case Diagram



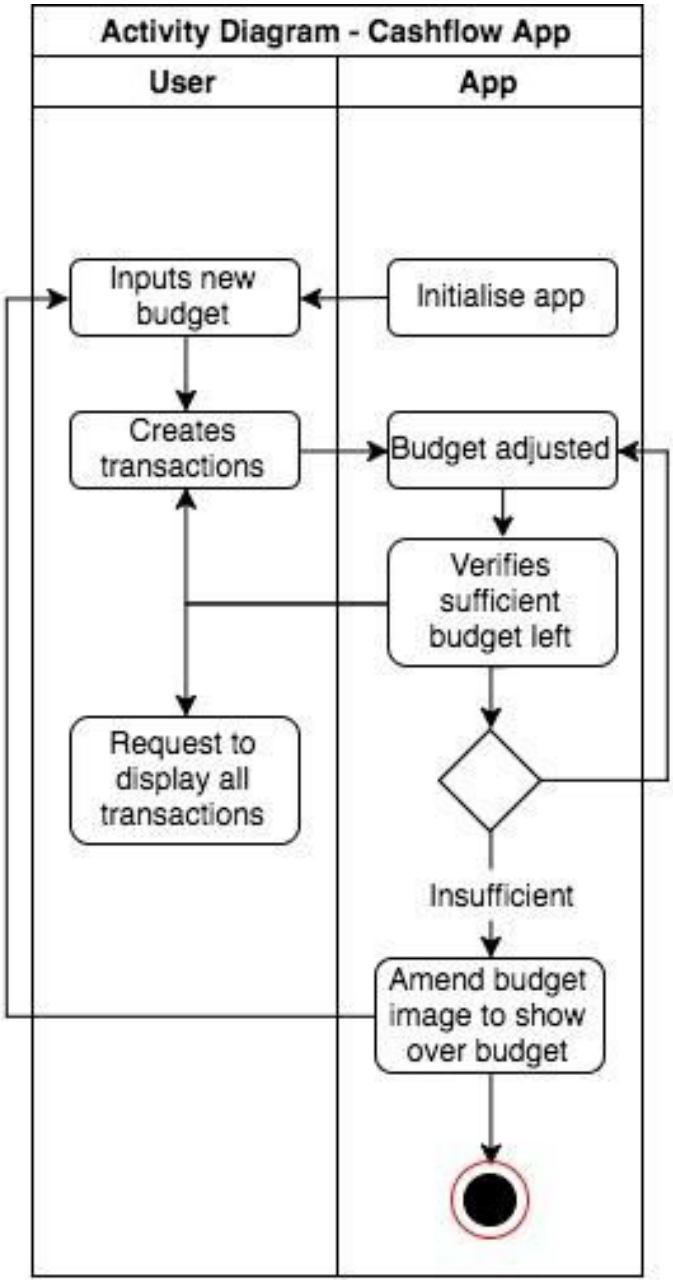
AD 2 Class Diagram



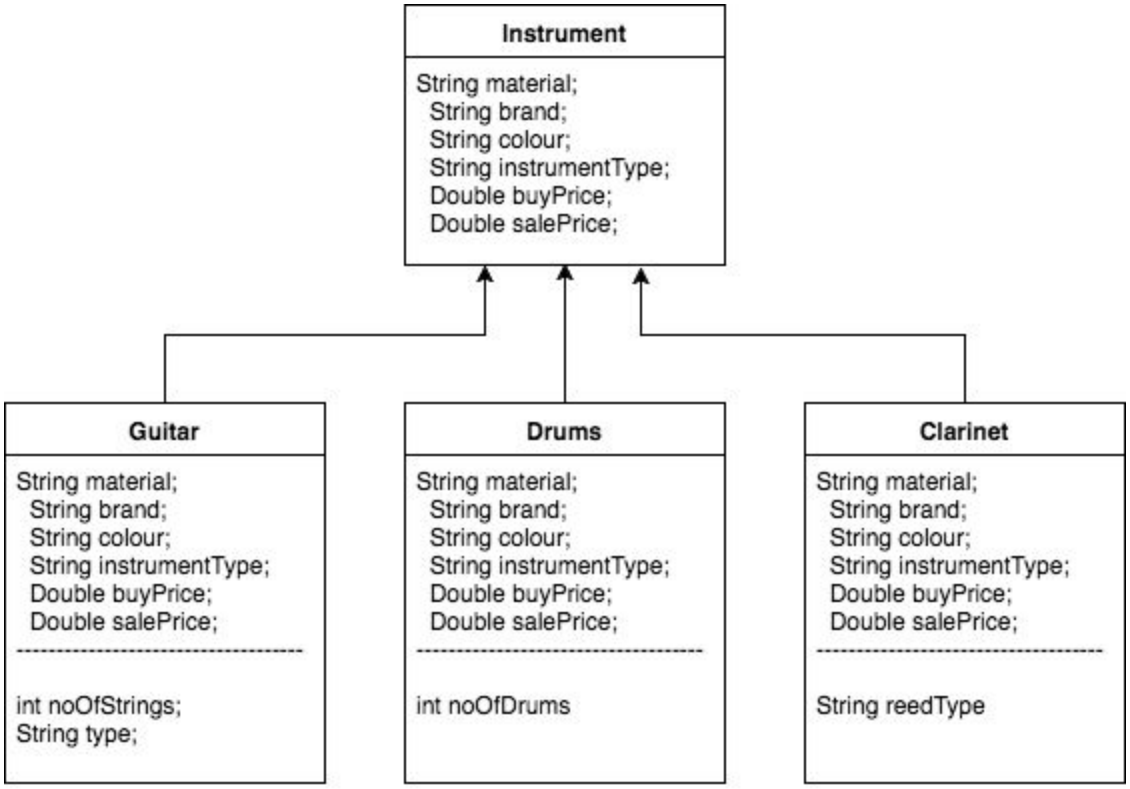
AD 3 Object Diagram



AD 4 Activity Diagram



AD 5 Inheritance Diagram



AD 6 Implementations Constraints Plan

Constraint	Possible Effect of constraint on product	Solution
Hardware and software platforms	May not be compatible with all devices or browsers. Page may crash or it may run slowly. Styling features may not be shown, reducing the impact of the product. Users may choose to avoid the product going forward.	If using JavaScript ES6, write with Babel to ensure the code is compatible across all browsers. Use documentation to check the browser compatibility of functions and the CSS.
Performance requirements	If there is not sufficient memory or processing power available on the device, the product will run slowly or crash when in use.	Ensure that the program runs as efficiently as possible, including having simple algorithms in the code. Communicate the

		performance requirements to the user prior to use.
Persistent storage and transactions	If considerable memory is required to save the data, it may slow down the device / product, may stop working. Unless SQL injection is prevented, product open to attack.	Use preventative techniques for SQL injection. Ensure that data is stored as efficiently as possible.
Usability	Colour blind users or those with limited vision may not be able to view the content on screen. The program may require a mouse to select elements but keyboard only users wouldn't be able to access all features.	Ensure that consideration is given at design stage and throughout to the usability of the product and accessibility for all prospective users (design for all). Contrasting colours should be used with clear font. Ensure users can tab through the program.
Budgets	Should the budget be spent, staff may not be paid, which could lead to legal issues. Further breaches of contract could be caused as a result of not being able to produce a promised product to a client.	Ensure a clear business plan is held from the outset and it is reviewed regularly to ensure the budget is both sufficient and feasible for the term of the contract / year.
Time	Important functionality may not be created if time runs out. The MVP may not be reached in time which could cause problems with the client / business. Product may not have an effective user interface if the product cannot be styled. If usability is not considered from conception, some users may have accessibility issues.	Plan the creation process as accurately as possible and regularly iterate over the work completed to ensure the goals are met on time.