**Advanced Software Engineering**

***Group Development Plan***

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**Iterations**

1. Loading

Creation of these classes: Item, Order, ItemCollection, OrderCollection, FileInput, ItemLoader, OrderLoader, Manager (limited functionality), print to output.

Unit tests for each class created here as will use TDD in this iteration.

1. Report Generation

Add further functionality to Manager class by adding ability to output report and add items and orders. Also methods in collection classes to get frequency etc.

1. GUI1

Creation of CafeGUI class, ability to add items to orders and add to OrdersCollection, view total price of order, generated report includes added items.

1. GUI2

Addition of discount item type, addition of DiscountCalculator class, method to find best discounts, ability to have multiple discounts combined.

1. Full system testing

Both unit test for all classes where appropriate, table of tests for all functionalities of GUI testing outcomes against expectations.

A picture containing screenshot

Description generated with very high confidence**Gantt Chart**

**Use Case Diagram**

A close up of a map

Description automatically generated



**Activity Diagram**A close up of text on a white background

Description generated with very high confidence

A screenshot of a cell phone

Description generated with very high confidence**Sequence Diagram**

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Description automatically generated**Class Diagram**

Standard Constructors and getters and setters have been omitted for simplicity.