

CS341 Shopping Cart Project Plan

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Project Overview

The aim of this project is to develop a shopping cart software. A customer can browse or search items, add an item to or remove an item from his/her shopping cart, and edit item's quantities in the shopping cart. The check out procedure requires promotion code if applies, shipping address, tax calculation and credit card information. An administrator can add an item to or remove an item from the system, and edit the item's description and quantity in the system. The software should also have promotion occasionally.

The following minimal set of functionalities must be included:

- Register a customer into the system.
- Modify the registered customer's profile.
- Browse, search, add, remove or edit items in the system or shopping cart.
- Apply promotion code when check out if the promotion is valid.
- The tax rate will be calculated based on the credit card's billing address.
- There should be at least three types of users: admin, registered customer, and guest.

A graphical user interface will be developed for this software. The interface must consist of multiple screens for different tasks. For example, there should be a welcome screen to start with which displays the various functionalities of the software. If one chooses to login or register to the system, there will be a separate window/screen that displays the requested information.

Our approach to this project will be to create a Software-as-a-Service model of cart software. Site administrators will be able to tailor their frontend to their business needs, and access the endpoints on our server using JavaScript.

Project Plan

| Deliverable | Estimated time to complete | Actual time | Deadline | Notes |
|--|----------------------------|-------------|----------|---|
| Functional Re-requirements, Use Case Models, User Stories, Assumptions | 1.5 hours | | Sept. 27 | |
| Demo 1 | 20 hours | | Oct. 11 | |
| UML Diagrams | 10 hours | | Nov 1. | |
| Demo 2 | 25 hours | | Nov 15. | |
| Updated Documentation | 10 hours | | Nov. 29 | |
| Final Demo | 30 hours | | Dec 11 | |
| Final source code | 2 hours | | Dec 11. | We aim to keep our source code clean and well commented through the whole project |
| User manual | 4 hours | | Dec. 11 | |