ICS 199 Project Specification

Group 01

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Document version	Who	Action
1.0	Jaehun Jeong	Created document

Table of Contents

Project Summary:

The objective of this project is to build a fully functional eCommerce site that facilitates the purchasing of exotic fruits. The products and customer information will be stored using a relational database. Customers can browse as a guest or create an account to save their activities. Our shopping cart will allow the customers to add, modify the quantity, delete and/or display the fruit in the cart. Once satisfied the customers must login or create an account to make a purchase. All purchases will be submitted through Stripe, a 3rd party payment system.

Specific requirements

Functional Requirements:

- A product must be able to be added to a shopping cart
- A product must be able to be deleted from the shopping cart
- A product must be able to be displayed from the shopping cart
- The quantity of a product must be able to be changed
- The entire cart must be able to be emptied
- All products in a database must be displayed
- A customer can register for an account
- A customer can login to an existing account
- A customer can purchase using their account
- A customer can review their order before making the purchase
- A shopping cart will be saved between site visits if the user logs in
- An email confirmation will be sent to the customer when a purchase is made
- An email confirmation will be sent to the admins when a purchase is made
- A product cannot be purchased if there is not enough stock
- The details of a product must be displayed as soon as a user clicks it
  - Afterward, the user can go back to search results
- The product(s) matched by the search must be displayed
- If there is no product matched by the search, the customer will get notified about it and other suggestions will be made
- As soon as a user purchases products, the quantities of the purchase for all the products must be decreased from each purchase in stock

Non-Functional Requirements:

- The system will use MySQL for the database
- The system will be implemented in PHP
- The system must respond within 5 seconds of adding, modifying or deleting an item from the cart
- The system must respond within 10 seconds of a request to display the cart
- The system will use the nginx web server
- The system will run on the Linux platform
- An order can be submitted using a 3rd party payment solution (Stripe)
- The system must respond within 1 minute of paying for the cart
- The system must have less than 1 hour total of downtime in three months
- The website shall be easy to use by all customers
- The website will use HTML 5.0
- The website will use CSS 3.0
- The website will use Javascript

Role Designations Table:

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Team Leader	Roy	Fiona	Connor	Roy	Kerensa	Fiona	Kerensa
Backend	N/A	Fiona Connor Roy Kerensa	Connor Roy	Connor Roy	N/A	N/A	Fiona Connor Roy Kerensa
Middle-ware	N/A	N/A	N/A	Connor Roy	Fiona Kerensa	Fiona Connor Roy Kerensa	Fiona Connor Roy Kerensa
Front-end	N/A	Fiona Kerensa	Fiona Kerensa	Fiona Kerensa	Connor Roy	N/A	Fiona Connor Roy Kerensa