**Advanced Higher Computing Project – leBaie**

**2023/2024**

AH Project Analysis

I will develop an online storefront called "leBaie".  The website will allow registered users to list their own items/products to the site and be able to view and edit their details (profile). Furthermore "leBaie" should allow all users to browse the website and view products listed by others (Each item listed will have a picture price and name associated with it, which is then stored in the database). Registered Users and Guests should also be able to add available products to their basket. Consumers should be able to easily access their basket (stored in a MySQL database), search for products either by search or browsing in the appropriate categories and see the chosen products of the month. When users first enter the website, they will be on the landing page which presents them with options to sign in, register or seamlessly browse the website as a guest and add or remove items from their basket as they see fit. Registered Users will be able to list their own products on the site as well, products listed must have an image, product name and the category associated with the item being listed (this will be done by storing the file pathway in the SQL database).

Due to my project meeting the Advanced Higher Computing Criteria, it is a suitable project which consists of easily managed inputs from users- making it simple to validate inputs entered by users. My project will authenticate all login details entered by users by comparing the entered details to the ones stored in the database, update users profiles inside database if they choose to change their details, insert items added to basket into the database, I will also utilise session variables across the site and allow users to delete items from their basket (which then deletes it from the database).

Constraints

 The technical, economic, legal, and time constraints that apply to this project include:

* MySQL database that is used to store products listed on website, customer queries, user’s baskets and user login details.
* To access the database using MySQL, I will use Windows 11 Operating System along with Mac OS.
* To run the database integrated with the webserver I will use xampp control panel.
* There will be no costs involved in the development of the project as I am using software that is fully licensed and available in school for free.
* Notepad ++ 8.5.7 will be used to develop the site as this is the program, I feel the most confident developing with
* The project must be completed by the deadline of the end of February.

Requirement Spec

Project Plan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Stage | Task | Duration (Days) | Possible Start Date | End Date |
| ANALYSIS | Description of Project | 3 | 26/09/23 | 29/09/23 |
| UML Diagram | 1 | 01/10/23 | 02/10/23 |
| Requirement Spec |  |  |  |
| Project Plan | 1 | 04/10/23 | 05/10/23 |
| DESIGN | AH Concepts |  |  |  |
| Design Data Structure |  |  |  |
| Integrate Project |  |  |  |
| Ensure program is fit for purpose |  |  |  |
| User Interface |  |  |  |
| IMPLEMENTATION | Ensure Program Matches Design |  |  |  |
| Integration |  |  |  |
| User Interface |  |  |  |
| New Skills |  |  |  |
| Ongoing Testing |  |  |  |
| TESTING | Test Plan |  |  |  |
| Requirements Testing |  |  |  |
| Test Cases |  |  |  |
| EVALUATION | Fitness For Purpose |  |  |  |
| Maintainability |  |  |  |
| Robustness |  |  |  |

**UML diagram**

**A diagram of a diagram

Description automatically generated**

**Pseudocode**

basket.php

1. Connects to the DB, creates connections, starts session and initialise variables
2. Selects items from database the table `basket` where the username corresponds to the one in the table
3. Display items if results>0

Refinements

* 1. Start Session
  2. Initialise variables
  3. Create connection with DB

2.1 Select items from `basket` table where the username in the field matches the session variable they signed in/registered with.

2.2 Querys DB to assigns the values to “results”