**Project Charter**

|  |
| --- |
| Project Title: *CleckhuddersMarket* |

Version Control

|  |  |  |
| --- | --- | --- |
| Version | Date | Summary of changes |
| 1.0 | 05/03/25 | *Initial Version* |
|  |  |  |

Project Justification

|  |
| --- |
| The local shopping area in Cleckhuddersfax has been thriving despite the huge competition from large supermarkets and national chain stores. However, local traders know the increasing challenge of accessibility for working customers who are unable to visit their shops during regular hours. To maintain their businesses and adapt to the changing habits of customers, five local traders, a butcher, greengrocer, fishmonger, baker, and delicatessen have jointly decided to open an e-commerce store which provides customers with a convenient way to purchase fresh and locally sourced goods while preserving the unique characteristics of their independent shops.  This project will aim to develop a prototype e-commerce platform where customers can navigate products by shop or by product type, place orders by a single checkout system, and collect their goods from a designated collections point at scheduled times. The system will have secure user registration, email confirmations, payment scheme such as PayPal and Stripe as the payment gateway. Traders will have their own web interface to add, delete or update the items in their inventory, view daily order reports and track sales performance. Additionally, a Management Interface is developed that will give the traders access to a range of daily and periodic reports including financial summaries and order management tools, ensuring smooth operation and transparency.  The e-commerce site will help both traders and customers. Traders can easily sell their goods while increasing sales without extending shop hours, while the customers get access to fresh and local products despite busy schedules. By simplifying ordering and collection the platform supports the local economy and preserves their unique characteristics which helps the small businesses compete in larger markets. If the project is successful it could expand to include more traders, helping the local shopping area thrive. |

Project Scope

|  |
| --- |
| *Objectives listed here should relate to the purpose stated above, so should be concerned with business improvement, end-user experience, quality enhancement etc. The objectives should be SMART:*  *S - Specific*  *M - Measureable*  *A - Achievable*  *R - Relevant*  *T – Time Bound*  ***SMART Objectives for the E-Commerce Prototype***  ***1. Develop a Functional E-Commerce Prototype***  ***Specific:*** *the specific goal is to design a fully functional prototype that allows customers to browse products, add them to cart and buy from multiple traders in the same transaction.* ***Measurable:*** *The prototype should be able to support a minimum of five and maximum of ten traders.* ***Achievable:*** *Utilize PHP to build the prototype within the set timeframe* ***Relevant:*** *The prototype should support the local traders of Cleckhuddersfax so that they are able to compete with larger supermarkets* ***Time-bound:*** *Complete the development and testing of the prototype within the final week*  ***2. Ensure a Seamless User Experience***  ***Specific:*** *Create a responsive user interface that allows the users to easily navigate by filtering their needs through any device that can support the website* ***Measurable:*** *Ensure the website loads within at least three seconds on any device the user may be using* ***Achievable:*** *Use modern UI/UX principles and conduct usability testing to refine the interface before launch.* ***Relevant:*** *making sure that the customers prefer the local business over the larger competitors by providing easy accessibility through the interface*  ***Time-bound:*** *Finalizing the UI/UX design with feedback within the first few weeks*  ***3. Implement Secure User Registration and Payment Processing***  ***Specific:*** *Implement PayPal for transactions with the possible future addition of Stripe. Develop a secure authentication system which requires the users to register and login. Placing the orders should be verified through email verification. Account updates should also be confirmed through email.* ***Measurable:****. Ensure all the registered users receive verification email for successful registration within five minutes of initial registration* ***(Achievable:*** *Use OAuth 2.0 in APEX Authentication Schemes to ensure secure authentication and integrate the well-developed payment API of PayPal* ***Relevant:*** *Provide a trustworthy and secure platform, ensuring data protection and compliance with payment security standards.* ***Time-bound:*** *test registration and payment features within the set time frame.*  ***4. Establish a Trader Management System***  ***Specific:*** *Create a trader dashboard in the trader interface where the local traders can add, update or delete products, review daily order reports and manage their accounts.* ***Measurable:*** *Ensure that each trader can properly manage at least 10 product listings and generate order and account reports with no faults and 100% accuracy* ***Achievable:*** *Developing a functional prototype and populating it with sample data to demonstrate the management and sales report functions* ***Relevant:*** *Helps traders efficiently handle online orders without requiring additional staff.* ***Time-bound:****, ensuring all core functionalities (product management, order review, and account management) are implemented, Complete the development of the trader management system prototype within the set timeframe*  ***5. Implement an Order Collection System***  ***Specific:*** *Develop a system that allows customers to select a collection slot from Wednesday to friday for time slots:10AM to 1PM, 1PM to 4PM and 4PM to 7PM for orders. Slots must be 24 hours after purchase and limited to 20 orders per slot.*  ***Measurable:*** *System should accurately assign and track all the orders to designated time slots, with automatic slots closure when full (20 orders per slot).*  ***Achievable:*** *efficiently manage collection slot allocations by utilizing database driven scheduling.* ***Relevant:*** *Ensure smooth order fulfilment. Also prevent overbooking at the collection point.*  ***Time-bound:*** *test the order collection system within the set timeframe.* |
| *High level requirements of the product or service should be identified here.* |

Duration

|  |
| --- |
| Further discussion would be needed with the client to agree testing period and go-live dates.  Initiation: 05/03/2025[1 week]  Planning: 05/03/2025-17/04/2025 [6 weeks]  Execution: 17/04/2025- 30/05/2025[12 weeks] |

Estimated Budget

|  |
| --- |
| Estimate the hours of efforts that will be required to deliver the project and any costs associated with the purchase of equipment  Hours Formatted: Hours per day \* Days per week  Utkrista Thapa Shrestha: 4 \* 5 = 20 hours  Abinesh Acharya: 3.5 \* 5 = 17.5 hours  Abhishek Kumar Sah: 3 \* 5 = 15 hours  Sukriti Baryal: 3 \* 5 = 15 hours  Aastha Dhital: 3 \* 5 = 15 hours  Sourav Subedi: 4 \* 5 = 20 hours  Yi Zhang: 3 \* 5 = 15 hours  Weekly hours total: 117.5 hours  1410 hours total during a 12-week period. |

Roles and Responsibilities

|  |  |
| --- | --- |
| Name | Role |
| *Utkrista Thapa Shrestha* |  |
| Sourav Subedi |  |
| Sukriti Baryal |  |
| Aastha Dhital |  |
| Abhishek Kumar Sah |  |
| Yi Zhang |  |
| Abinesh Acharya |  |