**INVENTORY MANAGEMENT WEB SYSTEM (IMWS)**

**Purpose:** *The Inventory Website project aims to provide an efficient platform for managing items in a business or organization. The current manual process of tracking inventory is prone to errors, time-consuming, and difficult to monitor, especially with multiple items. To address these issues, this project proposes the development of a web-based inventory system that will allow users to add, edit, delete, and view items in real time. The system will improve accuracy, reduce manual workload, and enhance overall inventory management efficiency.*

**Objectives:**

* *To design and develop an easy-to-use inventory website.*
* *To allow users to add, update, delete, and track inventory items efficiently.*
* *To provide a responsive platform accessible on desktop and mobile devices.*
* *To reduce errors and manual paperwork associated with inventory management.*
* *To enhance overall productivity and monitoring through an organized system.*

**Success Criteria:** *The system is expected to allow users to successfully add, edit, delete, and view inventory items with minimal errors. It should maintain data integrity, function on multiple devices (desktop and mobile), and provide a user-friendly interface. Post-implementation surveys should show that at least 80% of users are satisfied with the system's usability and efficiency. The system prototype must undergo testing and demonstrate reliable performance under typical operational scenarios.*

*Assumption:  
Users will have access to a computer or mobile device with internet connectivity. The development team has the necessary technical skills to create a web-based inventory system. The organization will allocate sufficient resources for the system’s development, testing, and deployment.*

**Limitation:** *The system will initially focus only on basic inventory management features (add, edit, delete, view). Advanced features such as barcode scanning, multi-user authentication, or payment integration are not included in the initial version. Offline access will be limited, as the system relies primarily on web-based access.*

**Constraints:** *The project is constrained by the availability of budget, development resources, and a limited timeline. The success of the system depends on proper feedback from users during testing and timely participation from the project team in completing tasks.*

**PROJECT RESOURCES**

|  |  |  |  |
| --- | --- | --- | --- |
| *Materials* | *Non-materials* | *Financial* | *Human* |
| *Laptop/Computer* | *Prototype Design* | *Budget will cover development, testing, and deployment* | *Programmer/Developer* |
| *Internet Connection/WiFi* | *Prototype Features and Capabilities* |  | *Technical Writer* |
| *Books and References* | *Technical Requirements for Functional Model* |  | *Data Analyst* |
|  |  |  | *Researcher* |
|  |  |  | *Project Manager* |

**SCOPE DEFINITION**

*In Scope:*

* *Adding, editing, deleting, and viewing inventory items.*
* *Responsive web design for desktop and mobile.*
* *Organized display of inventory data in tables.*
* *Simple search and tracking of inventory items.*

*Out of Scope:*

* *Offline-only access or offline database support.*
* *Advanced features such as barcode scanning, multi-user roles, and payment integration.*

*PROJECT DESCRIPTION AND BUSINESS CASE*

*Project Title and Short Name: Inventory Management Web System (IMWS)*

*Project Description:  
Currently, inventory management is handled manually, leading to errors, delays, and difficulty in tracking items. The Inventory Management Web System (IMWS) will provide an automated platform to manage inventory efficiently. Users will be able to add, update, delete, and track items online with real-time updates. The system will improve accuracy, save time, and reduce manual workload.*

*Business Case:  
With growing inventory demands, manual tracking is insufficient and error-prone. Implementing a web-based system will:*

* *Improve speed and accuracy in managing inventory.*
* *Reduce human errors and workload for staff.*
* *Provide an accessible platform on both desktop and mobile devices.*
* *Enhance organizational efficiency and productivity.*

**Project Breakdown**

*Project Team Roles & Responsibilities:*

*Project Manager (Mark Steven Clemente):  
Leads and oversees the entire project, defines scope, assigns tasks, monitors progress, and ensures deliverables are met. Communicates with stakeholders and ensures the project meets objectives.*

*Programmer/Developer (John Kervy Sayo):  
Responsible for designing, coding, testing, and implementing the web-based system. Ensures the system is functional, user-friendly, and responsive.*

*Technical Writer & Researcher (Edzel Tolintino):  
Prepares documentation including user manuals, research reports, and technical guides. Collects information on best practices for web-based inventory systems.*

*Data Analyst and System Tester (James Camua):  
Ensures data accuracy, validates system functionality, and conducts testing. Reports errors, suggests improvements, and ensures quality of the final system.*

***Project Controls (Sep 15 – Sep 24)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Process Task* | *Start Date* | *End Date* | *Status* | *Remarks* |
| *Client Interview* | *2025-09-15* | *2025-09-15* | *Completed* | *Discussed project objectives, requirements, and user expectations with client.* |
| *Requirement Gathering and Related Studies* | *2025-09-16* | *2025-09-17* | *Completed* | *Collected details on inventory system features, analyzed similar systems, and documented requirements.* |
| *Drafting Introduction and Background* | *2025-09-18* | *2025-09-18* | *Completed* | *Wrote project purpose, objectives, business case, and scope of the inventory website.* |
| *System Design and Prototype Development* | *2025-09-19* | *2025-09-21* | *Completed* | *Designed UI layout, implemented basic add/edit/delete/view functionality, and ensured responsiveness.* |
| *Expert Consultation* | *2025-09-22* | *2025-09-22* | *Completed* | *Received feedback from IT mentor on UI/UX improvements and system functionality.* |
| *System Testing and Debugging* | *2025-09-23* | *2025-09-23* | *Completed* | *Tested all features, fixed bugs, optimized mobile responsiveness, and verified data integrity.* |
| *Client Feedback and Revision* | *2025-09-24* | *2025-09-24* | *Completed* | *Collected client suggestions, implemented revisions, and confirmed final design approval.* |
| *Final Review and Deployment* | *2025-09-24* | *2025-09-24* | *Completed* | *Finalized system, conducted last round of testing, and deployed live version of the inventory website.* |

*Communication Plan*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Receiver* | *Information* | *Project Team Member [Sender]* | *Method* | *Feedback on the Message* |
| *Stakeholders* | *Project updates, system feedback* | *Project Manager* | *Meetings, Email, Chat* | *Confirmation and suggestions* |
| *Project Team* | *Task assignments, progress updates* | *Project Manager* | *Group Chat, Weekly Reports* | *Task completion status* |
| *End Users* | *System usability feedback* | *Developer and Analyst* | *Survey, Feedback Form* | *Ratings and suggestions* |