

# **Department of Computer Science and Engineering**

# BENGALURU, KARNATAKA, INDIA. B. TECH. (CSE)

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# UE21CS341A – SOFTWARE ENGINEERING PROJECT REPORT ON

# AquaDB Water Motors and Pipelines Rental and Sales Management System

#### **SUBMITTED BY**

#### PES1UG21CS727-Yadunand

- 1) PES1UG21CS713 Vinod Kumar k
- 2) PES1UG21CS726 Y Vishnuvardhan Reddy
- 3) PES2UG21CS622 Yashas Pawar G

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### PROPOSAL OF THE PROJECT :

**Problem Statement**: Current manual processes and disparate systems lead to inefficiencies, errors and a loss of data. We planned to solve this problem with our project.

**Target Audience**: Warehouse managers, inventory control Employees and coolies who work for daily wages can benefit from this.

**Project Overview and Deliverables**: Our project AquaDB Water Motors and piplelines management system is an advanced version of a simple warehouse management system. It aims to implement warehouse operations by focusing on advanced software and hardware solutions. It focuses on Sales Management, Rental Management Module, Inventory Management, Advance Records Searching, Advance Reports, Stores Management and also Employee management to a certain extent. **We focus more on** the Rental module Management part here as the price of motors are high and many customers would like to rent the product for a limited period of time than buy it whole.

#### **Project's Functional Features:**

- For Administrators :
  - <u>Authorized Login:</u> A secure web interface designed to allow authorized individuals like administrators or System-operators to access and manage privileged functionalities.
  - <u>Inventory Management</u>: Involves efficiently tracking and organizing goods to optimize stock levels and ensure timely fulfilment of orders, helping businesses reduce costs and improve customer satisfaction.
  - <u>Employee Management</u>: Administrators can create, modify, or deactivate user accounts for store employees. They can assign roles and permissions to control access levels, ensuring that each staff member has the appropriate privileges within the system.
  - <u>Security and Access Control</u>: Administrators are responsible for maintaining the security of the system. They can configure security settings, set password policies, and monitor user activities to safeguard sensitive data and ensure compliance with privacy regulations.
  - <u>Store Overview</u>: Focuses on organizing products, and maintaining accurate records to enhance accessibility and streamline inventory handling, ultimately boosting operational efficiency and reducing errors. Also maintains records of various store branches.

#### <u>For Inventory Management</u>:

- <u>Pre-Order Management:</u> Employees can place orders for products they need to restock their inventory directly through the system.
- <u>Rental Management</u>: Employees can place rent products they need to restock their inventory directly through the system. They can specify quantities, delivery dates and any special requirements, streamlining the procurement process.
- <u>Quotation Management</u>: Employees can place buy products they need to restock their inventory directly through the system.

#### For Employee Dashboard:

<u>Employee Profile</u>: Can check details regarding the employee like salary, details and other relevant things here.

# **SYSTEM REQUIREMENTS SPECIFICATIONS:**

<u>Purpose</u>: This Software Requirements Specification (SRS) document outlines the requirements for the development of AquaDB Water Motors and Pipelines Sales and Rental Management System, a comprehensive Warehouse Management System. It specifies the features and functionalities that will be included in the system.

<u>Intended Audience</u>: Warehouse managers, inventory control Employees and coolies who work for daily wages can benefit from this.

<u>Product Scope</u>: AquaDB Water Motors and Pipelines Sales and Rental Management System is designed to handle the robust Inventory Management system to help out the small scale workers.

<u>Product Perspective</u>: AquaDB Water Motors and Pipelines Sales and Rental Management System is a standalone product that serves as a comprehensive Warehouse management system module. It is not a replacement for any existing system but is designed to enhance warehouse management by providing a user-friendly interface and easy to use UI for anyone to easily operate without much prior experience in Software responsibilities. Our products are basically water motors and pipelines that are utilized during construction and for water pumping requirements and we provide a way to efficiently manage these and to ease the workload of the small scale daily wage workers.

<u>Product Functions</u>: The major functions of AquaDB include but are not limited to:

- Product Catalog Management
- Inventory Tracking
- Product Quotation
- Renting Products
- Rental Products Analytics
- Order Management
- Quantity in Stock
- Inventory Reports
- Employee Profiles
- User Classes and Characteristics

AquaDB Water Motors and Pipelines Sales and Rental Management System will cater to the following user classes:

#### Administrators:

Characteristics: Highly privileged users with full access to all system features.

Responsibilities: Manage and oversee the entire system including inventory, employees, and store-related data.

Actions: Add, update, and remove products; create purchase orders; manage inventory levels; set rental and pre-order options; manage employee profiles, maintain employee access control; generate reports.

#### Employees/Staff:

Characteristics: General employees responsible for day-to-day warehouse operations.

Responsibilities: Execute tasks assigned by administrators or managers, such as order picking, packing, shipping, and data entry.

Actions: Fulfill orders, update inventory records and communicate with managers or administrators regarding tasks and issues.

#### **Operating Environment**: AguaDB operates in the following environment:

• <u>Frontend</u>: The frontend is accessible through standard web browsers like Google Chrome, Mozilla Firefox, Safari, and Microsoft Edge. The user interface are responsive, ensuring compatibility with various devices and screen sizes.

- <u>Backend</u>: The backend components are hosted on a server running a compatible operating system (e.g., Linux, Windows Server). It requires a web server (e.g., Apache, XAMPP, Nginx, PHPmyadmin) to handle incoming HTTP requests.
- <u>Database</u>: The system interacts with a relational database management system (RDBMS) for data storage. Specifically MySQL..

#### Assumptions for this project include:

- Data Accuracy
- Good Internet Connectivity
- Hardware and Software Requirements
- Compliance with Legal Regulations
- Employee Training
- Supplier Collaboration

#### Dependencies for this project include:

- External Data Sources
- IT Infrastructure
- Employee Compliance
- Legal Changes
- System Updates and Maintenance

#### External Interface Requirement:

#### **User Interfaces**:

The user interface of AquaDB consists of logical characteristics like:

- <u>Employee Dashboard</u>: Employees can access a user-friendly dashboard where they can view and update the quotations, renting, ordering various products.
- <u>Administrator Dashboard</u>: Admins can access a separate dashboard providing features for managing inventory, store, employee records.

- <u>Responsive Design</u>: The user interface is designed to be responsive, ensuring seamless access from different devices, including desktops, laptops, tablets, and smartphones.
- <u>GUI Standards</u>: The graphical user interface (GUI) follows a modern design principles and adhere to best practices for usability and accessibility.

#### Software Interfaces:

AquaDB interacts with various software components, including:

- <u>Database Management System</u>: The system connects to the chosen database management system (PHPmyadmin and MySQL) for storing and manipulating wsystem related information.
- <u>Web Servers:</u> AquaDB utilizes web servers like Apache or Nginx to handle incoming HTTP requests and manage security configurations.

#### **Communications Interfaces:** Communication functions within AquaDB will include:

#### User Interface (UI):

- <u>Characteristics</u>: The primary interface for administrators, employees, and customers to interact with the system.
- <u>Functionality:</u> Provides access to features like stores management, inventory management, employee profiles and data updation.

#### Reporting Dashboards:

- Characteristics: Data tools for generating and viewing reports.
- <u>Functionality:</u> Admins and managers can access performance metrics, inventory turnover, and financial reports.

#### System Features:

#### System Feature 1: Product Catalog Management

#### **Description and Priority:**

• Allows admins to add, edit, and remove products from the system, including product details, pricing, and descriptions.

#### **Functional Requirements:**

- The system provides a user interface for admins to manipulate records
- The system allows admins to categorize products by type of payment (e.g. quotation, ordering, renting etc).

#### System Feature 2: Inventory Tracking and Manipulation

#### **Description and Priority:**

• Enables real-time monitoring and management of all inventory items within the warehouse.

#### Stimulus/Response Sequences:

- Administrator's Request
- Data Entry and Update
- Save/Update Request
- Removal of Products
- User Access and Search.

#### **Functional Requirements:**

- Real-time Inventory Updates
- Product Identification
- Inventory Count and Auditing
- Inventory Reports and Analytics

# System Feature 3: Transactions (Quotation, Rental Module and Order Management)

#### **Description and Priority:**

<u>Quotation Products:</u> This transaction involves the process of purchasing products to replenish inventory. It includes selecting products, specifying quantities, supplier details, and payment processing.

<u>Renting Products</u>: Renting products from the warehouse involves providing items to customers for a specified rental period along with the option for a coolie. This transaction includes product selection, rental terms, and tracking return dates.

Ordering Products: Ordering allows customers to reserve products that are not currently in stock. This transaction involves taking orders in advance, specifying delivery dates, and managing customer expectations.

#### Stimulus/Response Sequences:

- Data Entry and Update
- Users requests to buy specific products.
- User requests to rent specific products.
- Save/Update Request
- Removal Request for Products
- User Access and Search.

#### **Functional Requirements:**

- Real-time Inventory Updates
- Product Identification

#### System Feature 4: Employee Profiles:

#### Description and Priority:

Employee profiles involve maintaining and updating information about each employee, including personal details, contact information, job roles, and work history. This ensures accurate and organized employee records

#### Stimulus/Response Sequences:

- Creating or Updating Employee Profiles
- Deactivating or Terminating Employee Profiles:

#### **Functional Requirements:**

- Profile Creation and Updating
- Profile Viewing

#### Other Non Functional Requirements:

<u>Safety Requirements</u>: Safety requirements primarily focus on ensuring the safety and integrity of admin, employee, customer data and the overall system operation. These include:

- <u>Data Backup and Recovery</u>: Data backup and recovery procedures are critical to safeguarding the integrity and availability of data within the system. These measures are essential for ensuring business continuity and minimizing the risk of data loss due to unforeseen events or errors.
- Emergency Data Access: In the event of system downtime or emergencies, admins must have secure and authorized access to critical information to ensure safe, lossless, smooth management of the system
- Data Integrity: The system shall implement data integrity checks to ensure that inventory records remain accurate and unaltered. Any unauthorized modifications to inventory data shall be detected and flagged. These safety requirements are primarily concerned with ensuring data availability, integrity, and the ability to maintain essential services during unexpected events.

#### **Security Requirements**

Security requirements focus on protecting system data from unauthorized access, ensuring data confidentiality, and maintaining secure user interactions. These include:

- Access Control: Access to system records and sensitive information shall be strictly controlled through user authentication and authorization mechanisms. Unauthorized access to patient data shall be prevented to maintain data privacy and security.
- Audit Trail: The system shall maintain an audit trail of user activities, including login attempts, data modifications, and access history. This audit trail will serve as a security measure to monitor and investigate any suspicious or unauthorized activities.

These security requirements aim to protect patient data, prevent unauthorized access, and maintain the confidentiality and privacy of patient health information.

#### Software Quality Attributes:

- <u>Usability</u>: AquaDB provides a user-friendly and intuitive interface for admins, employees. Usability will be assessed using industry-standard usability testing methods, with a focus on ease of navigation and task completion.
- <u>Availability:</u> The system aims for 99.9% availability, ensuring that admins, emplyees and users can access it reliably. Downtime for maintenance and updates should be minimized and scheduled during off-peak hours.
- <u>Reliability:</u> AquaDB operates reliably without unexpected crashes or errors. The system shall be thoroughly tested to identify and address potential failure points.
- <u>Maintainability:</u> The codebase and database structure of AquaDB is well documented and organized, making it easy for developers to maintain and enhance the system. Code should adhere to best practices and be modular for efficient maintenance.
- <u>Portability:</u> AquaDB is designed to run on modern web browsers and devices, ensuring compatibility with popular platforms (e.g., Windows, macOS, Android, iOS). Cross-browser and cross-platform testing will be conducted to verify portability.
- <u>Interoperability:</u> The system supports integration with external healthcare systems and data sources through standardized interfaces and protocols. This will facilitate data exchange and interoperability with others.
- <u>Robustness</u>: AquaDB is robust against unexpected inputs and user actions. Error handling and recovery mechanisms shall be implemented to gracefully handle exceptional situations.
- <u>Testability:</u> The system's codebase shall be structured to facilitate automated testing, including unit testing, integration testing, and user acceptance testing. A test suite shall be developed to verify the system's functionality.

These software quality attributes is important for both customers and developers, ensuring that AquaDB meets high standards of usability, reliability, and maintainability while also being adaptable and interoperable with other healthcare systems. The specified attributes guides the development and testing processes to achieve these goals.

#### **Business Rules**

#### **User Registration:**

#### **Description**:

• Rules governing the user registration process, which includes administrators, employees, and potentially customers or suppliers.

#### Rules:

- Users must provide accurate and verifiable information during registration.
- Users are responsible for maintaining the confidentiality of their login credentials.
- Users must update their profiles as needed to ensure accurate contact and access information.

#### **Applicability:**

• Applies to all user types, including administrators, employees, customers, and suppliers.

#### <u>Admin-Employee Relationship:</u>

#### **Description:**

• Rules defining the relationship and responsibilities between administrators and employees in the warehouse.

#### Rules:

• Administrators have the authority to add, delete, manage products and employees and manage their profiles..

Applicability: Applies to administrators and warehouse staff.

#### **Data Privacy:**

#### Description:

• Rules pertaining to the privacy and security of data, especially sensitive information related to inventory, employees, and customers.

#### Rules:

- Access to sensitive data, such as employee profiles, payroll details, and customer information is restricted to authorized personnel.
- Data encryption and access controls are implemented to protect sensitive information.
- Data is stored securely, and backups are encrypted to prevent unauthorized access.

#### Applicability:

• Applies to all system users and is especially crucial for administrators and those responsible for data handling.

#### Other Requirements

The customer wanted the rental module to be extended hence we have added few other functionalities to it like Renting the Product with/without Coolies, Adding fines if the product is not returned within the agreed rental period and generating detailed rental reports.

# <u> Appendix A: Glossary</u>

- AquaDB Water Motors and Pipelines Sales and Rental Management System: A
  software system designed to manage and optimize warehouse management
  operations, including inventory control, order processing, and employee
  management.
- Admin: An administrator or superuser with elevated privileges responsible for overseeing and managing various aspects of the WMS.
- <u>Inventory:</u> The collection of products, goods, or items stored within the warehouse that are available for sale, rent, or pre-order.
- <u>Buying:</u> The process of acquiring products for the warehouse's inventory, typically through purchasing from suppliers or manufacturers.
- Renting: Allowing customers to temporarily use or lease products from the warehouse in exchange for a fee.
- <u>Pre-ordering</u>: The practice of accepting customer orders for products that are not currently in stock, with delivery scheduled for a later date.
- <u>Employee Management:</u> The set of processes and tools used for overseeing and managing the workforce within the warehouse, including employee profiles, payrolls.

- <u>Employee Profiles:</u> Detailed records containing information about each employee, including personal details, roles, and qualifications.
- <u>Payroll</u>: The process of calculating and distributing employee salaries, wages, bonuses, and deductions.
- <u>User Registration:</u> The process of creating and validating user accounts, including administrators, employees, customers, and suppliers.
- <u>Data Privacy:</u> The protection and management of sensitive data to ensure confidentiality,, integrity, and compliance with privacy regulations

#### Appendix B: Field Layouts

1 FIELD NAME	LENGTH/TYPE	DESCRIPTION	MANDATORY
2 Product Name	Text	Name of the product	У
3 Description	Text	Product description	У
4 Price	Currency	Product price	У
5 Quantity In Stock	Integer	Current stock quantity	У
6 Employee Name	Text	Name of the employee	У
7 Employee ID	Alphanumeric	Unique employee ID	У
8 Position	Text	Employee job position	У
9 Payroll Amount	Currency	Employee monthly salary	У
10 Advance Amount	Currency	Employee advance amount	n
11 Order ID	Alphanumeric	Unique order identifier	У
12 Order Date	Date	Date of order placement	У
13 Customer Name	Text	Name of the customer	У
14 Customer Address	Text	Customer's shipping address	У
15 Rent Date	Date	Start of rental period	У
16 Rent Expiration Date	Date	End of rental period	У
17 Store ID	Alphanumeric	Unique store identification	У
18 Store Location	Text	Store Address	У
19 Card Credentials	Data	Card Information	n

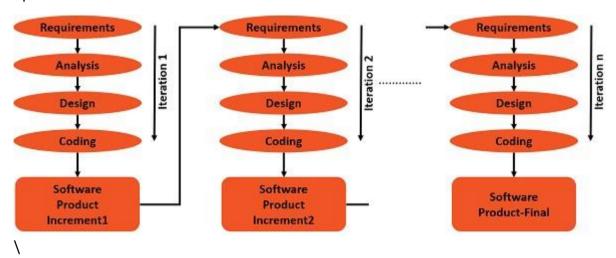
# **PROJECT PLAN:**

#### Lifecycle Used:

For our project AquaDB Management System (a warehouse management system project) that includes various components like inventory management, employee management, and store-related information, the choice of a software development lifecycle (SDLC) model is what we have estimated to be critical to the project's success.

Under SDLC we have opted for the Incremental Development approach.

Incremental development involves dividing the project into smaller, manageable parts or increments. Each increment represents a portion of the system's functionality. It allows us to build and deliver discrete, functional components of the system incrementally. In the context of our project, we can use incremental development to focus on the inventory management module as the first increment, followed by the employee management module in the second increment. Incremental development is suitable for delivering specific, critical functionality early in the project and then build upon it.



#### Tools Used:

- Planning Tool : Used Trello
- <u>Design Model</u>: Used Presentation Layer, Application Layer and Data Layer concepts
- Design Tool: Used Wireframe to design a basic template, Google for inspiration

• Version Control Tool : Used Git

 <u>Development Tool</u>: Used VS Code and MySQL Workbench and Command Line Client

Bug Tracking Tool : Used GitTesting Tool : Used DBunit

#### Our Projects Deliverables are:

#### Reuseable Components:

- <u>HTML/CSS Templates</u>: Reuse existing HTML/CSS templates as a starting point for building web pages. This saves time and effort in designing the user interface from scratch. Templates can be customized to match the project's branding and layout requirements.
- PHP Frameworks and Libraries: Reuse PHP frameworks and libraries for handling common functionalities like user authentication, database connections, and form validation.
- <u>SQL Database Schema</u>: Reuse a well-designed SQL database schema for inventory management, user profiles, and transaction records. Justification: A well-structured database schema saves time and ensures data integrity.

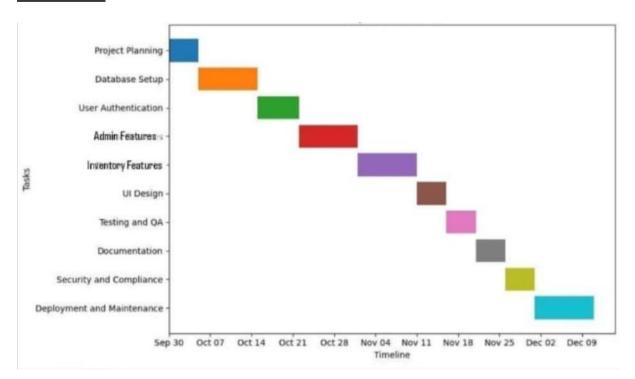
#### **Build Components:**

- <u>Custom PHP Code:</u> Build custom PHP code to create the logic and functionality specific to the WMS, such as user management, inventory tracking, and order processing. Justification: Custom code is required to address the unique business logic and requirements of the project.
- <u>SQL Queries:</u> Develop SQL queries to retrieve, update, and manage data within the database. Custom SQL queries are necessary to meet the project's specific data retrieval and manipulation needs.
- <u>User Interface Components</u>: Build user interface components using HTML, CSS, and JavaScript for creating web pages, forms, and interactive features. Custom user interface components are essential to match the project's unique design and user experience requirements.
- <u>Testing Scripts</u>: Create testing scripts using tools like Selenium or PHPUnit for testing the application's functionality, including HTML, CSS, PHP, and SQL components. Custom testing scripts are needed to validate the project's specific functionality and integrations.

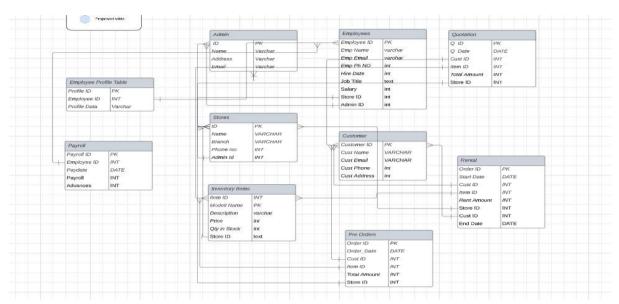
- <u>Documentation:</u> Develop project-specific documentation, technical documentation, and code comments. Custom documentation ensures that project can be understandable, maintainable and ensure efficient use.
- Bug Tracking and Issue Management: Implement a bug tracking and issue management system tailored to the project's needs. Custom issue management is necessary to track and resolve project-specific bugs and improvements.
- <u>Integration Code:</u> Develop custom integration code to connect with external systems or devices, such as barcode scanners or payment gateways. Custom integration code is required to meet the project's specific hardware and software integration needs.

# **DESIGN DIAGRAMS:**

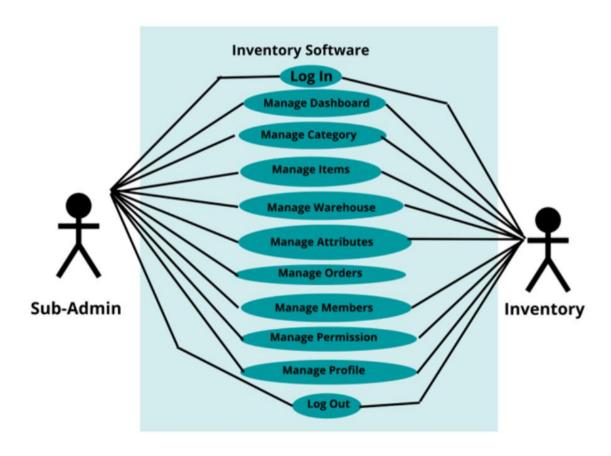
#### **Gantt Chart:**



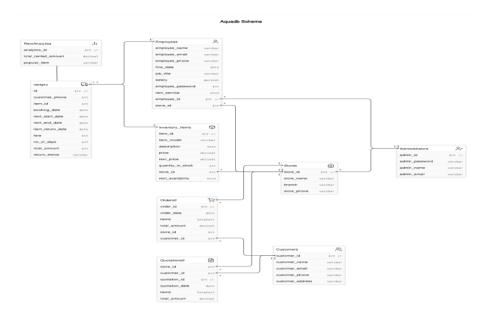
# **UML Diagrams**:



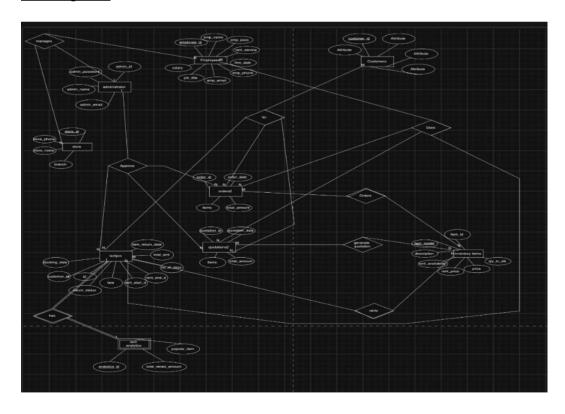
# <u>Simple Use Case Diagram</u>:



# <u>Relational Schema Diagram :</u>



# ER Diagram :



# **TEST CASES**:

Test Case ID	Name of Module	Test case description	Precon ditions	Test Steps	Test data	Expected Results	Actual Result	Test Result
UT-01	User registration module	To test the login functionality	Access to Chrome Browser	Login to the desired page Admin / Inventory / Employee profiles respectively.	For Admin Login: U/N: p/w: For Employee: u/n: p/w: For Inventory: u/n: p/w:	Login should be successful with you landing on your desired page	Login successful with according to expected results.	P
UT-02	Administrator Dashboard Functionalities Module	To check if all the functionalities in the admin dashboard works correctly	Proper working of UT01	Login to the Admin Page from the initial login page from UT-01	Click on all the tab buttons present there are check if all the contents are rendered.	All the desired functionalities rendered without problems.	All the desired functionalities rendered according to expected results	P
UT-03	Inventory Reports Management Module	All the Rented, Bought products reports are	Proper working of UT02	From the admin dashboard navigate to the	Try adding and deleting products according	Should be successfully able to view sales report and the	All the desired functionalities rendered according to	P

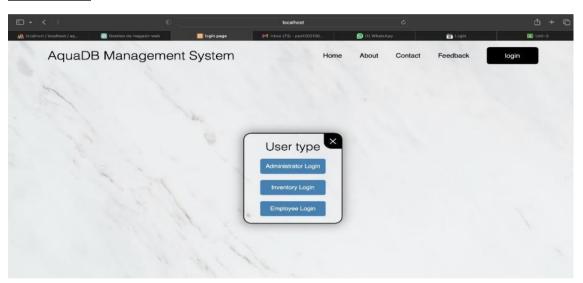
UT-04	Store Management Module	managed here. Can also add or remove products from the inventory.  All store related info like store locations, which products are present in what branch etc are managed and viewed here	Proper working of UT02	From the admin dashboard navigate to the Store Manageme nt Tab.	to the product info. Generate sales report. Try adding new branch AquaDB Kasturinag ar branch.	inventory reports. Easily add or delete desired products.  Should be able to add the branch correctly provided it exists.	expected results  All the desired functionalities rendered according to expected results	P
UT-05	Employee Management Module	All employee related info managed here, can view all employee info their roles etc, can add and delete employees, assign roles to them etc.	Proper working of UTO2	From the admin dashboard navigate to the Employee Manageme nt Tab.	Try adding employe: Name: Ramesh, Role :Worker, Salary: 10000 etc and then try deleting him.	Should be able to add and delete the employee records successfully	All the desired functionalities rendered according to expected results	P
UT-06	Inventory Dashboard Functionalities Module	All the transactions are carried out here.	Proper working of UT01	Login to the Inventory Page from the initial login page from UT-01	Click on all the tab buttons present there are check if all the contents are rendered.	All the desired functionalities rendered without problems.	All the desired functionalities rendered according to expected results	P
UT-07	Quotation Functionality Module	You can view and buy your desired product here.	Proper working of UT06	From the inventory dashboard navigate to the Quotation Tab.	Try to add to cart and buy 3 1hp asmsp725 product.	Can add to the cart and buy the desired product and proceed to the payments.	All the desired functionalities rendered according to expected results	P
UT-08	Rental Functionality Module	There are certain products you can rent out for a certain period of time.	Proper working of UT06	From the inventory dashboard navigate to the Rent Tab.	Try to rent the product 1hp asmsp725 for a period of 1 day	Can add to the cart and rent for a desired duration the desired product and proceed to the payments.	All the desired functionalities rendered according to expected results	P

UT-09	Pre-order Functionality Module	There are new arrival products that you can preorder	Proper working of UT06	From the inventory dashboard navigate to the Pre Order Tab.	Try to pre order 3 1hp asmsp725 product.	Can successfully pre order the product.	All the desired functionalities rendered according to expected results	Р
UT-10	Employee Dashboard Functionalities Module	To check if all the functionalities in the employee dashboard works correctly	Proper working of UT01	Login to the Employee Page from the initial login page from UT-01	Click on all the tab buttons present there are check if all the contents are rendered.	All the desired functionalities rendered without problems.	All the desired functionalities rendered according to expected results	Р
UT-11	Employee Profile Module	Employees can login and view their details here	Proper working of UT10	From the employee dashboard navigate to the employee profile tab.	Try changing the employee role here to admin.	You shouldn't be able to do this, only admin can add/assign roles.	All the desired functionalities rendered according to expected results	P
UT-12	Payroll Tab Module	Employees can request view their salary and request for a advance.	Proper working of UT10	From the employee dashboard navigate to the payroll tab.	Try requesting for a advance of 1000 from a employee profile.	Should be granted the advance if salary >1000. If emp salary<1000 its not granted.	All the desired functionalities rendered according to expected results	F
UT-13	Access Control Module	Unauthorized users cannot access this database/application.	Proper working of UT01	Try to login with a account without admin privileges. Try to access admin dashboard with this.	Normal account without any privileges.	The system should deny access to the admin dashboard	All the desired functionalities rendered according to expected results	P
UT-14	Data Encryption Module	Data should be encrypted when stored in the database.	Proper working of the Databas e.	Enter some data and try viewing it on the DB server like PHPMyadmi n.	Data to be stored. Any relevant data.	Data must be stored in a encrypted format.	It gets stored in normal text format without encryption.	F

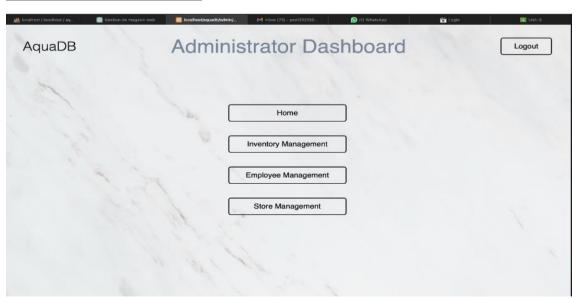
UT-15	Data addition Module	Can add infinite number of products and employees from admin.	Proper working of UT03 and UT- 05.	Add details of many products and Add infinite number of	Relevant Data must be added.	Should display the vast number of products and employees added.	There is a limit set to there is no need for additional labour beyond	F
		from admin.		number of employees.		added.	requirements.	

# **OUTPUT SCREENSHOTS:**

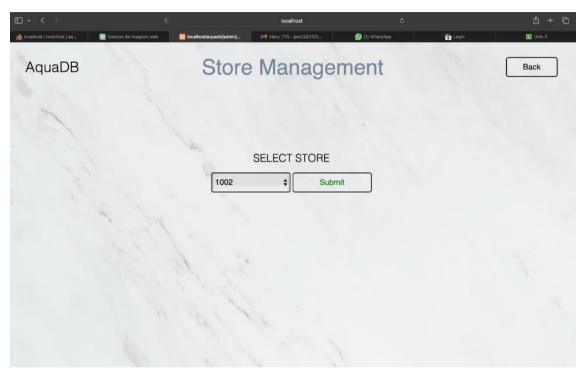
# Login Page:



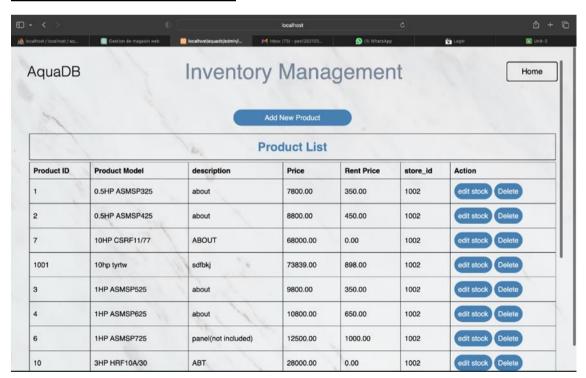
# <u>Administrator Dashboard</u>:



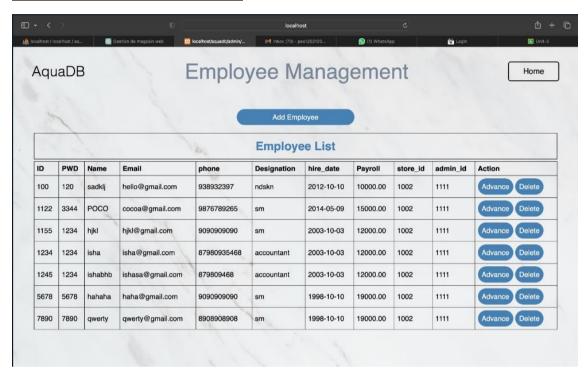
# Store Management Page:



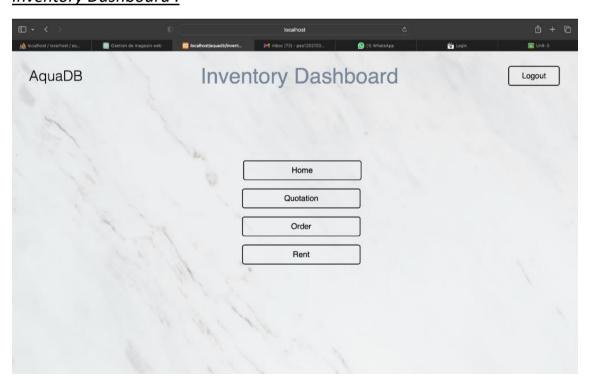
# **Inventory Management Page:**



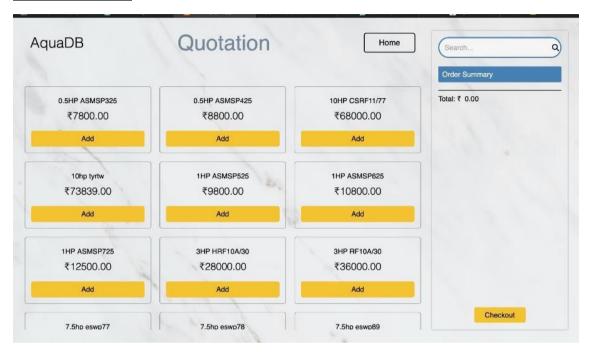
# Employee Management Page:



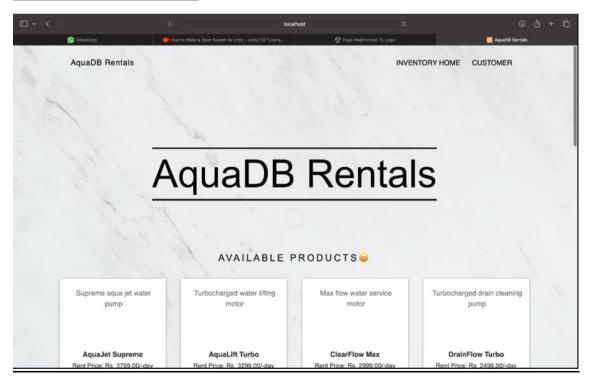
# <u>Inventory Dashboard:</u>



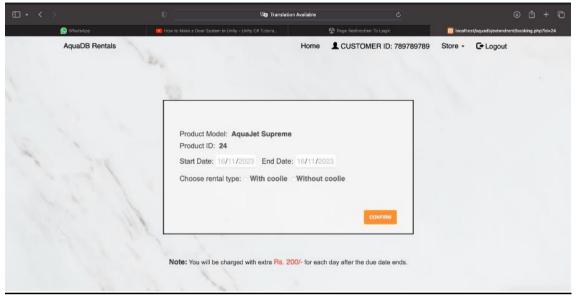
# **Quotation Page**:



# Rental Dashboard Page:



# Rental Booking:



# Employee Dashboard:

