PES UNIVERSITY
Department of Computer Science and Engineering
UE21CS341A: Software Engineering

Format 2

# Software Requirements Specification

**for**

## *AquaDB Management System*

**Version 1.0 approved**

**Prepared by <author – PES1UG21CS727>**

**<Organization>**
**Team 11 – V$^{th}$ Section**

**<Date created>**
**13 – 11 - 2023**

# Table of Contents



# Revision History

| Name | Date | Reason For Changes | Version |
|---|---|---|---|
| | | | |
| | | | |

**PES UNIVERSITY**

BENGALURU

Department of Computer Science and Engineering

# Introduction

## Purpose

*This Software Requirements Specification (SRS) document outlines the requirements for the development of AquaDB, a comprehensive Warehouse Management System. It specifies the features and functionalities that will be included in the system.*

## Intended Audience

*<Describe the different types of reader that the document is intended for, such as developers, project managers, marketing staff, users, testers, and documentation writers. Describe what the rest of this SRS contains and how it is organized.>*

*Developers/IT Team: These readers are responsible for implementing and maintaining the WAREHOUSE MANAGEMENT SYSTEM. They need technical details, code examples, and system architecture information.*

*Project Managers: Project managers oversee the implementation of the WAREHOUSE MANAGEMENT SYSTEM. They need high-level information about project timelines, budgets, and resource allocation. They may also require insights into how the WAREHOUSE MANAGEMENT SYSTEM aligns with the overall project goals.*

*Warehouse Managers and Staff: Warehouse managers and employees are the primary users of the WAREHOUSE MANAGEMENT SYSTEM. They require user manuals, training materials, and information on how to use the system effectively for day-to-day operations.*

*Testers/QA Team: Quality assurance testers need documentation that outlines testing procedures, test cases, and expected outcomes. They ensure that the WAREHOUSE MANAGEMENT SYSTEM is working as expected and is free from defects.*

*End Users: These are the employees who interact with the WAREHOUSE MANAGEMENT SYSTEM on a daily basis. They need user-friendly documentation, guides, and training materials to understand how to perform their tasks using the system.*

*Executives and Decision-Makers: High-level executives and decision-makers need summaries and reports that provide an overview of the benefits, costs, and ROI of the WAREHOUSE MANAGEMENT SYSTEM. They are interested in how the system aligns with the organization's strategic goals.*

*Sales and Marketing Staff: Marketing and sales teams may need materials that explain the features and benefits of the WAREHOUSE MANAGEMENT SYSTEM to potential customers. This could include brochures, product descriptions, and presentations.*

*Documentation Writers: Technical writers who maintain the documentation for the WAREHOUSE MANAGEMENT SYSTEM need access to the most up-to-date technical information to keep user manuals and guides accurate and current.*

*Here our team of (PES1UG21CS727, PES1UG21CS713, PES1UG21CS726 and PES2UG21CS622) are handling all of the development, implementation, architecture design, testing and documentation duties).*

## Product Scope

*AquaDB is a warehouse management system designed to handle the robust Inventory Management capabilities, which involve tracking and controlling the movement and storage of goods within the warehouse. This encompasses real-time inventory updates, ensuring accurate stock levels and minimizing the risk of stockouts or overstocking management.*

## References

*<List any other documents or Web addresses to which this SRS refers. These may include user interface style guides, contracts, standards, system requirements specifications, use case documents, or a vision and scope document. Provide enough information so that the reader could access a copy of each reference, including title, author, version number, date, and source or location.>*

*System Requirements Specification (SRS): This document should be the primary reference for the WMS project. It may include detailed technical specifications, functional requirements, and other critical information. Provide the title, author, version number, date, and location of this document.*

*User Interface Style Guide: If a style guide is in use for designing the user interface of the WMS, reference it here. Include details on the title, author, version number, date, and where to find the style guide.*

*Contract Agreement: If there's a formal contract or agreement that outlines the terms, conditions, and scope of the WMS project, reference it in the SRS. Include information about the title, parties involved, version number, date, and the source or location of the contract.*

*Industry Standards and Regulations: If the WMS must comply with specific industry standards or regulations (e.g., ISO standards for logistics), provide references to these standards. Include the title, issuing authority, standard number, version, date, and a source where readers can access the standards.*

*Use Case Documents: If there are separate documents detailing specific use cases or scenarios for the WMS, list them here with their titles, authors, versions, dates, and sources or locations.*

*Vision and Scope Document: If there's a document outlining the high-level vision and scope of the WMS project, include it in the references section with details about the title, author, version number, date, and source or location.*

*External Documentation Sources: Any external documentation, books, research papers, or websites that are relevant to the WMS project can be included as references. Provide details such as the title, author, publication date, and the source or location where the reader can access these materials.*

**PES UNIVERSITY**

BENGALURU

Department of Computer Science and Engineering

# Overall Description

## Product Perspective

*AquaDB is a standalone product that serves as a comprehensive Warehouse management system . It is not a replacement for any existing system but is designed to enhance warehouse management by providing a user-friendly interface for customers to interact and consume information, admins and employees to interact and manage related tasks. 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.*

## Product Functions

*The major functions of AquaDB include but are not limited to:*

*Product Catalog Management*
*Inventory Tracking*
*Purchasing*
*Renting Products*
*Pre-Order Management*
*Quantity in Stock*
*Inventory Reports*
*Employee Profiles*
*Payroll Management*
*Advance Request and Management*

## User Classes and Characteristics

*AquaDB 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 WMS, 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, payroll, and advances; oversee shift scheduling; maintain employee access control; approve or deny advance requests; generate reports; communicate with employees.*

*Customers:*
*Characteristics: External users who interact with the system to place orders, pre-orders, or rental requests.*
*Responsibilities: Place orders, pre-orders, or rental requests, and track order status.*
*Actions: Browse the product catalog, place orders, make rental or pre-order requests, and check the status of their orders.*

*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, request advances, and communicate with managers or administrators regarding tasks and issues.*

## Operating Environment

*AquaDB will operate in the following environment:*

- *Frontend: The frontend of will be accessible through standard web browsers, including but not limited to Google Chrome, Mozilla Firefox, Safari, and Microsoft Edge. The user interface will be responsive, ensuring compatibility with various devices and screen sizes.*
- *Backend: The backend components will be hosted on a server running a compatible operating system (e.g., Linux, Windows Server). It will require a web server (e.g., Apache, XAMPP, Nginx, PHPmyadmin) to handle incoming HTTP requests.*
- *Database: The system will interact with a relational database management system (RDBMS) for data storage. Specifically MySQL.*
- *Software Components: The application stack may include middleware, authentication mechanisms, and security tools to ensure a secure and efficient operation.*

## Design and Implementation Constraints

*Constraints affecting the project include:*

- *Corporate and Regulatory Policies: The project must adhere to corporate policies regarding data privacy, security, and regulatory compliance in the industry sector.*
- *Hardware Limitations: The system should meet hardware requirements, including timing and memory constraints, to ensure smooth operation..*
- *Technology Stack: The project will use a specific technology stack (e.g., programming language, framework) . This includes PHP, HTML, CSS, JS and MySQL.*
- *Security Considerations: Security measures must be implemented to protect data from unauthorized access and breaches.*
- *Design Conventions: The project will follow design conventions and programming standards to maintain code quality and readability.*

## 2.6 Assumptions and Dependencies

*Assumptions for this project include:*

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

*. Dependencies for this project include:*

- *Integration with Payment Gateways*
- *External Data Sources*
- *IT Infrastructure*
- *Supplier Performance*
- *Employee Compliance*
- *Legal Changes*
- *User Adoption*
- *System Updates and Maintenance*

# External Interface Requirements

## User Interfaces

*User Interfaces:*

*The user interface of AquaDB will consist of logical characteristics, including but not limited to:*

- *Customer Dashboard: Customers will access a user-friendly dashboard where they can view and buy, rent, pre-order various products.*

  *Administrator Dashboard: Admins will have access to a separate dashboard providing features for managing inventory, store, employee records.*
- *Responsive Design: The user interface will be designed to be responsive, ensuring seamless access from different devices, including desktops, laptops, tablets, and smartphones.*
- *GUI Standards: The graphical user interface (GUI) will follow modern design principles and adhere to best practices for usability and accessibility.*

## Software Interfaces

*AquaDB will interact with various software components, including:*

- *Database Management System: The system will connect to the chosen database management system(PHPmyadmin and MySQL) for storing and manipulating warehouse related information.*
- *Web Servers: AquaDB may utilize web servers like Apache or Nginx to handle incoming HTTP requests and manage security configurations.*
- *Payment Gateways: To facilitate secure online payments for product purchases and rentals.*

## Communications Interfaces

*Communication functions within AquaDB will include:*

*<u>User Interface (UI):</u>*
- *Characteristics: The primary interface for administrators, employees, and customers to interact with the WMS.*
- *Functionality: Provides access to features like inventory management, employee profiles, payroll processing, and advance requests.*
- *User Types: Admins, employees, customers*

*<u>Customer Portal:</u>*
- *Characteristics: An online portal for customers to place orders, pre-orders, and rentals.*
- *Functionality: Customers can browse the product catalog, place orders, track deliveries, and view order history.*
- *User Types: Customers.*

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

*<u>Supplier Portal:</u>*
- *Characteristics: A web-based portal for suppliers to access order information and confirm delivery.*
- *Functionality: Suppliers can view and acknowledge purchase orders, update product availability, and provide shipping details.*
- *User Types: Suppliers.*

.

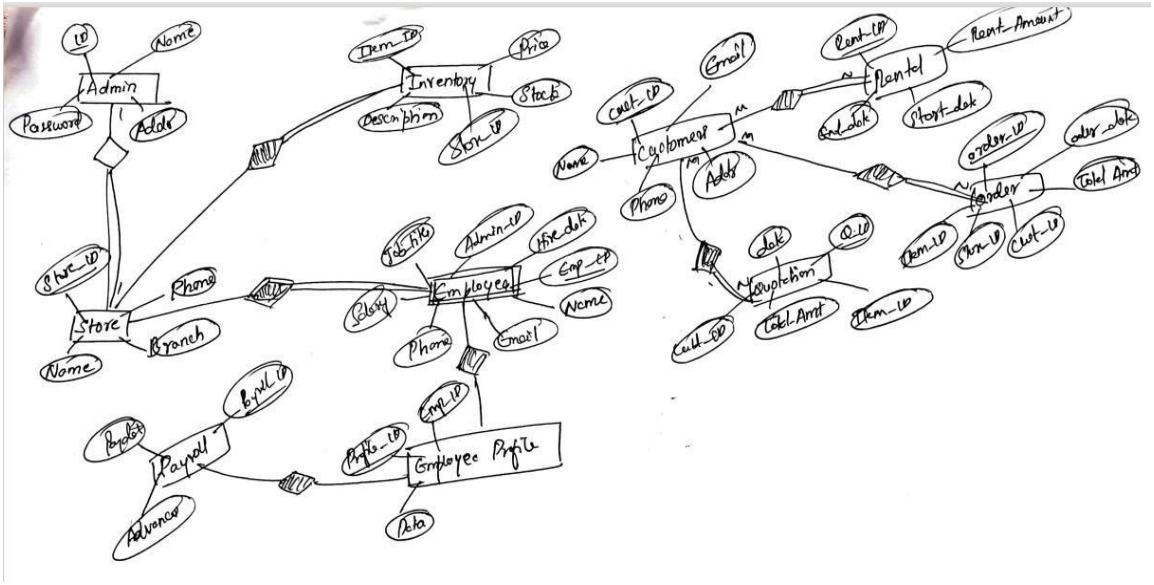
**PES UNIVERSITY**

BENGALURU

Department of Computer Science and Engineering

## Analysis Models

*<Include pertinent analysis models, such as use case diagrams and if applicable entity-relationship diagrams.>*




## System Features

### System Feature 1: Product Catalog Management

5.1.1 Description and Priority:

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

5.1.2 Functional Requirements:

- The system shall provide a user interface for admins to manipulate records
- The system shall allow admins to categorize products by type of payment (e.g. quotation, pre-order, renting etc).

### System Feature 2: Inventory Tracking and Manipulation

5.2.1 Description and Priority:

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

5.2.2 Stimulus/Response Sequences:

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

5.2.3 Functional Requirements:

- Real-time Inventory Updates
- Product Identification

- Inventory Count and Auditing
- Inventory Reports and Analytics

### System Feature 3: Transactions (Buying, renting and pre – ordering)

5.3.1 Description and Priority:

Buying Products:

Description: This transaction involves the process of purchasing products to replenish inventory. It includes selecting products, specifying quantities, supplier details, and payment processing.

Renting Products:

Description: Renting products from the warehouse involves providing items to customers for a specified rental period. This transaction includes product selection, rental terms, and tracking return dates.

Pre-ordering Products:

Description: Pre-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.

5.3.2 Stimulus/Response Sequences:

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

5.2.3 Functional Requirements:

- Real-time Inventory Updates
- Product Identification

### System Feature 4: Employee Profiles:

5.4.1 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

5.4.2 Stimulus/Response Sequences:

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

5.4.3 Functional Requirements:

- Profile Creation and Updating
- Profile Viewing
- Integration with Payroll and Advance Management

### System Feature 5: Payroll Management :

5.5.1 Description and Priority:

Payroll management encompasses the process of calculating, distributing, and maintaining employee salaries and advances.

5.5.2 Stimulus/Response Sequences:

- Processing Payroll
- Employee Advance Deductions
- Payroll Adjustments and Corrections

5.5.3 Functional Requirements:

- Payroll Processing
- Integration with HR and Employee Profiles:
- Payroll Adjustments
- Security and Compliance

### System Feature 6: Advance requests managements :

5.6.1 Description and Priority:

Advance request and management facilitate employees' ability to request advances on their salaries.

5.6.2 Stimulus/Response Sequences:

- Requesting an Advance
- Advance Approval and Disbursement

5.6.3 Functional Requirements:

- Advance Request Submission
- Advance Repayment
- Advance Monitoring and Reporting
- Compliance and Security

## Other Non Functional Requirements

### Performance Requirements

*Performance requirements for the system will be specified in detail, including response times for user interactions and system scalability under various load conditions.*

### Safety Requirements

*Safety requirements primarily focus on ensuring the safety and integrity of admin, employee, customer data and the overall system operation. These include:*

- *Data Backup and Recovery: Data backup and recovery procedures are critical to safeguarding the integrity and availability of data within the WMS. 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 Warehouse..*

- *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 patient data from unauthorized access, ensuring data confidentiality, and maintaining secure user interactions. These include:*

- *Access Control: Access to patient health 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.*

- *Data Encryption: Patient health records and sensitive data transmitted over the network shall be encrypted using industry-standard encryption protocols to ensure confidentiality and prevent data interception during transmission.*

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

## Software Quality Attributes

- *Usability: AquaDB shall provide a user-friendly and intuitive interface for admins, employees and customers. Usability will be assessed using industry-standard usability testing methods, with a focus on ease of navigation and task completion.*

- *Availability: The system shall aim for 99.9% availability, ensuring that admins, customers and users can access it reliably. Downtime for maintenance and updates should be minimized and scheduled during off-peak hours.*

- *Reliability: AquaDB shall be designed to operate reliably without unexpected crashes or errors. The system shall be thoroughly tested to identify and address potential failure points.*

- *Maintainability: The codebase and database structure of AquaDB shall be 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.*

- *Portability: AquaDB shall be 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.*

- *Interoperability: The system shall support integration with external healthcare systems and data sources through standardized interfaces and protocols. This will facilitate data exchange and interoperability with others.*

- *Robustness: AquaDB shall be robust against unexpected inputs and user actions. Error handling and recovery mechanisms shall be implemented to gracefully handle exceptional situations.*

- *Testability: 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 will be 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 will guide 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.*

*Admin-Employee Relationship:*
*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 performance and payroll among other things.*
- *Admins are responsible for approving or denying advance requests from employees, following company policies.*

*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.*
- *The system must comply with applicable data privacy regulations, such as GDPR or HIPAA, when handling personal or health-related data.*
- *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

*<Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.>*

*{ Nothing as of now…will be mentioned if utilized later }*

# Appendix A: Glossary

*<Define all the terms necessary to properly interpret the SRS, including acronyms and abbreviations. You may wish to build a separate glossary that spans multiple projects or the entire organization, and just include terms specific to a single project in each SRS.>*

*WMS (Warehouse Management System): A software system designed to manage and optimize warehouse 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.*

*Inventory: The collection of products, goods, or items stored within the warehouse that are available for sale, rent, or pre-order.*

*Buying: 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.*

*Pre-ordering: The practice of accepting customer orders for products that are not currently in stock, with delivery scheduled for a later date.*

*Employee Management: The set of processes and tools used for overseeing and managing the workforce within the warehouse, including employee profiles, payroll, and advance management.*

*Employee Profiles: Detailed records containing information about each employee, including personal details, roles, and qualifications.*

*Payroll: The process of calculating and distributing employee salaries, wages, bonuses, and deductions.*

*Advance: A financial advance given to employees, typically for unforeseen expenses, which is subject to repayment.*

*User Registration: The process of creating and validating user accounts, including administrators, employees, customers, and suppliers.*

*Data Privacy: The protection and management of sensitive data to ensure confidentiality, integrity, and compliance with privacy regulations*

**PES UNIVERSITY**

BENGALURU

Department of Computer Science and Engineering

# Appendix B: Field Layouts

An Excel sheet containing field layouts and properties/attributes and report requirements.

**Sample sheet with information required to register the customer**

| Field | Length | Data Type | Description | Is Mandatory |
|---|---|---|---|---|
| Account Number | 16 | Numeric | | Y |
| ISFC code | 11 | Alphanumeric | | Y |
| Card Amount | 20 | Numeric | | Y |
| Mandate Start Date | 8 | Date | Date of Mandate Registration | N |
| Mandate End Date | 8 | Date | Date of Mandate Expiry | N |
| Status | 25 | Alphanumeric | Status of Registration | Y |
| Customer Name | 60 | String | | Y |
| Reject Reason Code | 4 | String | Reject Reason code in case mandate is rejected | N |

**FOR OUR PROJECT :**

| Field Name | Length | Data Type | Description | Mandatory or no |
|---|---|---|---|---|
| Product Name | | Text | Name of the product | y |
| Description | | Text | Product description | y |
| Price | | Currency | Product price | y |
| Quantity In Stock | | Integer | Current stock quantity | y |
| Employee Name | | Text | Name of the employee | y |
| Employee ID | | Alphanumeric | Unique employee ID | y |
| Position | | Text | Employee job position | y |
| Payroll Amount | | Currency | Employee monthly salary | y |
| Advance Amount | | Currency | Employee advance amount | n |
| Order ID | | Alphanumeric | Unique order identifier | y |
| Order Date | | Date | Date of order placement | y |
| Customer Name | | Text | Name of the customer | y |
| Customer Address | | Text | Customer's | y |

| | | | | |
|---|---|---|---|---|
| | | | shipping address | |
| Rent Date | | Date | Start of rental period | y |
| Rent Expiration Date | | Date | End of rental period | y |
| Store ID | | Alphanumeric | Unique store identification | y |
| Store Location | | Text | Store Address | y |
| Card Credentials | | Data | Card Information | n |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

*If there are any more fields to be added, they will be.*

**Sample Report Requirements: Include the fields to be included in the report**

| **Registration Report** | **Transaction Report** |
|---|---|
| Bank Account Number | Transaction Reference Number |
| ISFC Code | Bank Account Number |
| Bank Name | IFSC Code |
| Account Status | Bank Name |
| Account Type | Customer Name |
| Customer Name | Card Number |
| Card Number | Debit Transaction Amount |
| SI Start Date | Transaction Date |
| Status | Status |
| Remarks | Debit Attempt Number |

**PES UNIVERSITY**

BENGALURU

Department of Computer Science and Engineering

# Appendix C: Requirement Traceability Matrix

| Sl. No | Requirement ID | Brief Description of Requirement | Architecture Reference | Design Reference | Code & File Reference | Test Case ID | System Test Case ID |
|---|---|---|---|---|---|---|---|
| 1 | REQ-001 | User Registration - Admin | Arch-001 | Design-001 | Code-001, File-001 | TC-001 | STC-001 |
| 2 | REQ-002 | User Registration - Employee | Arch-001 | Design-001 | Code-002, File-002 | TC-002 | STC-002 |
| 3 | REQ-003 | User Registration - Customer | Arch-001 | Design-002 | Code-003, File-003 | TC-003 | STC-003 |
| 4 | REQ-004 | User Registration - Supplier | Arch-001 | Design-002 | Code-004, File-004 | TC-004 | STC-004 |
| 5 | REQ-005 | Admin-Employee Relationship | Arch-002 | Design-003 | Code-005, File-005 | TC-005 | STC-005 |
| 6 | REQ-006 | Admin-Customer Relationship | Arch-002 | Design-003 | Code-006, File-006 | TC-006 | STC-006 |
| 7 | REQ-007 | Data Privacy - GDPR Compliance | Arch-003 | Design-004 | Code-007, File-007 | TC-007 | STC-007 |
| 8 | REQ-008 | Data Privacy - HIPAA Compliance | Arch-003 | Design-004 | Code-008, File-008 | TC-008 | STC-008 |
| 9 | REQ-009 | Inventory Management - Product Name | Arch-004 | Design-005 | Code-009, File-009 | TC-009 | STC-009 |
| 10 | REQ-010 | Inventory Management - SKU | Arch-004 | Design-005 | Code-010, File-010 | TC-010 | STC-010 |
| 11 | REQ-011 | Inventory Management - Product Description | Arch-004 | Design-006 | Code-011, File-011 | TC-011 | STC-011 |
| 12 | REQ-012 | Inventory Management - Price | Arch-004 | Design-006 | Code-012, File-012 | TC-012 | STC-012 |
| 13 | REQ-013 | Inventory Management - Quantity In Stock | Arch-004 | Design-007 | Code-013, File-013 | TC-013 | STC-013 |
| 14 | REQ-014 | Inventory Management - Location | Arch-004 | Design-007 | Code-014, File-014 | TC-014 | STC-014 |
| 15 | REQ-015 | Employee Management - Employee Name | Arch-005 | Design-008 | Code-015, File-015 | TC-015 | STC-015 |
| 16 | REQ-016 | Employee Management - Employee ID | Arch-005 | Design-008 | Code-016, File-016 | TC-016 | STC-016 |
| 17 | REQ-017 | Employee Management - Position | Arch-005 | Design-009 | Code-017, File-017 | TC-017 | STC-017 |
| 18 | REQ-018 | Employee Management - Shift Schedule | Arch-005 | Design-009 | Code-018, File-018 | TC-018 | STC-018 |
| 19 | REQ-019 | Employee Management - Payroll Amount | Arch-005 | Design-010 | Code-019, File-019 | TC-019 | STC-019 |
| 20 | REQ-020 | Employee Management - Advance Amount | Arch-005 | Design-010 | Code-020, File-020 | TC-020 | STC-020 |
| 21 | REQ-021 | Order Management - Order Number | Arch-006 | Design-011 | Code-021, File-021 | TC-021 | STC-021 |
| 22 | REQ-022 | Order Management - Order Date | Arch-006 | Design-011 | Code-022, File-022 | TC-022 | STC-022 |
| 23 | REQ-023 | Order Management - Customer Name | Arch-006 | Design-012 | Code-023, File-023 | TC-023 | STC-023 |
| 24 | REQ-024 | Order Management - Customer Address | Arch-006 | Design-012 | Code-024, File-024 | TC-024 | STC-024 |
| 25 | REQ-025 | Inventory Summary Report - Field Layout | Arch-007 | Design-013 | Code-025, File-025 | TC-025 | STC-025 |
| 26 | REQ-026 | Inventory Summary Report - Filter | Arch-007 | Design-014 | Code-026, File-026 | TC-026 | STC-026 |
| 27 | REQ-027 | Inventory Summary Report - Sort | Arch-007 | Design-014 | Code-027, File-027 | TC-027 | STC-027 |
| 28 | REQ-028 | Employee Performance Report - Field Layout | Arch-008 | Design-015 | Code-028, File-028 | TC-028 | STC-028 |
| 29 | REQ-029 | Employee Performance Report - Filter | Arch-008 | Design-016 | Code-029, File-029 | TC-029 | STC-029 |
| 30 | REQ-030 | Employee Performance Report - Sort | Arch-008 | Design-016 | Code-030, File-030 | TC-030 | STC-030 |
| 31 | REQ-031 | Payroll Report - Field Layout | Arch-009 | Design-017 | Code-031, File-031 | TC-031 | STC-031 |
| 32 | REQ-032 | | | | | | |

**PES UNIVERSITY**

BENGALURU

Department of Computer Science and Engineering

# Format 3

# Project Plan Document

**Instructions:**

1: Prepare a detailed plan for your project which comprises of the below mentioned details.

2: Upload pdf document through the given link.

3: The name of the document should be your Project ID.

**Things to be included as part of the project plan.**

1: Identify the lifecycle to be followed for the execution of your project and justify why you have chosen the model.

2: Identify the tools which u want to use it throughout the lifecycle like planning tool, design tool, version control, development tool, bug tracking, testing tool.

3: Determine all the deliverables and categorise them as reuse/build components and justify the same.

4: Create a WBS for the entire functionalities in detail.

5: Do a rough estimate of effort required to accomplish each task in terms of person months.

6: Create the Gantt Chart for scheduling using any tool.