

Gestão de Projetos de Software

Asset Management System - IPB

Work Breakdown Structure

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1. Requirements Gathering Phase

- 1.1. Requirements Gathering Report
 - 1.1.1. Conduct interviews with stakeholders
 - 1.1.1.1. Analysis AMS needs
 - 1.1.2. Document Functional and nonfunctional requirements
 - 1.1.2.1. Functional Requirements
 - 1.1.2.2. Non-Functional Requirements
- 1.2. Use case stories
 - 1.2.1. Users Creation History
 - 1.2.2. Sectors Creation History (admin)
 - 1.2.3. Assigning employees to sector History (admin)
 - 1.2.4. Space Creation History
 - 1.2.5. Asset Management History
 - 1.2.6. Asset Transfer History
 - 1.2.7. Asset Loan History

2. System Design and Development Phase

- 2.1. AMS System Design Document
 - 2.1.1. Create system flowchart and diagram
 - 2.1.2. Create a Figma Mockup
- 2.2. AMS Software Development
 - 2.2.1. Frontend development
 - 2.2.1.1. Design UI
 - 2.2.1.2. integrated with backend API
 - 2.2.1.3. Apply all business rules
 - 2.2.2. Backend development
 - 2.2.2.1. Set up Database Schema
 - 2.2.2.2. Implement API for data retrieval and manipulation
 - 2.2.2.3. Apply all business rules

- 2.2.3. Business Rules
 - 2.2.3.1. User Management
 - 2.2.3.1.1. Create account screen
 - 2.2.3.1.1.1. Admin Registration
 - 2.2.3.1.1.2. Employee Registration
 - 2.2.3.2. Sector Management
 - 2.2.3.2.1. Create Sector screen
 - 2.2.3.2.1.1. Admin manages Employees to each sector
 - 2.2.3.3. Category and Space Management
 - 2.2.3.3.1. Create Category screen
 - 2.2.3.3.1.1. Admin and Employee can create categories for each sector
 - 2.2.3.3.2. Create Space screen
 - 2.2.3.3.2.1. Admin and Employee can create spaces for each sector
 - 2.2.3.4. Asset Creation
 - 2.2.3.4.1. Screen to create asset information
 - 2.2.3.4.2. Asset Assignment to sector
 - 2.2.3.4.3. Asset Assignment to category
 - 2.2.3.4.4. Asset Assignment to space
 - 2.2.3.4.5. Filter to find assets by code
 - 2.2.3.5. Asset Visualization
 - 2.2.3.5.1. Screen to list all assets
 - 2.2.3.5.1.1. Filter to list assets by Sector
 - 2.2.3.5.1.2. Filter to list assets by Space
 - 2.2.3.5.1.3. Filter to list assets by Category
 - 2.2.3.6. Asset Update
 - 2.2.3.6.1. Screen to edit asset information
 - 2.2.3.7. Asset Delete
 - 2.2.3.7.1. Screen to write off assets
 - 2.2.3.7.1.1. Text field to explain the reason
 - 2.2.3.8. Admin specific pages
 - 2.2.3.8.1. Screen to Admin list all Sectors
 - 2.2.3.8.2. Screen to Admin list all Employees
 - 2.2.3.8.2.1. Filter to list Employees by sector
 - 2.2.3.9. Loan
 - 2.2.3.9.1. Screen to create a loan and register which Sector, Space and Employees are involved
 - 2.2.3.9.2. Screen to list all pending Loans from each Sector
 - 2.2.3.9.2.1. Filter to list Loans by Employee, Space and date

3. Data Migration and Integration Phase

- 3.1. Migration and Data Integration Planning
 - 3.1.1. Contact the IPB technician to learn about the current database
- 3.2. Execution of Migration and Data Integration
 - 3.2.1. Proposal for new SQL tables to meet IPB's needs

4. Testing and Quality Assurance Phase

- 4.1. Testing Execution
 - 4.1.1. Conduct Testing
 - 4.1.1.1. Unit Testing
 - 4.1.1.2. System Testing
 - 4.1.1.3. Integration Testing
 - 4.1.2. Troubleshooting and Corrections
 - 4.1.2.1. Fix Error and Bugs

5. Training and User Support Phase

- 5.1. User manual and documentation development
 - 5.1.1. User manual for end users, with simple and practical specifications
 - 5.1.2. Detailed manual for future programmers, with detailed specifications for application maintenance
- 5.2. Conducting training sessions
 - 5.2.1. Practical demonstration of using the application for end users

6. Change Management and Stakeholder Engagement Phase

- 6.1. Change Management Plan Development
- 6.2. Stakeholder Engagement Material Preparation

There is a link to Diagram because it couldn't fit on a PDF:

https://lucid.app/lucidchart/86f9cbdd-5c42-4550-9241-08bbaba1c191/edit?viewport_loc=-4096%2C-2852%2C8230%2C3670%2C0_0&invitationId=inv_39546811-3dcc-4a4e-b5eb-c9912091416a