Software Project Management

Work Breakdown Structure

Assignment - 02

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By:

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eCommix
No Code Website Generator

Analyze

- **Initiation**
  - Develop Business Case
  - Extract Scope/Problem Statement
  - Select Team Members
  - Select Supervisor
  - Schedule Timeline
  - Approval from FYP Committee
- **Identify Stakeholders**
  - Interview
    - Key Stakeholders
  - Gather Requirements
    - External
      - System Specification
    - Internal
      - Non-Functional Requirements
    - Technical
      - Functional Requirements
      - Project Goals
    - Document Requirements
    - Analyze Requirements
- **Use-Case Identification**
  - Create Web Engine
  - Drag & Drop Builder
  - Create Workflows
  - Store Modules
- **Risk Analysis**
  - Access Feasibility
  - Create Project Charter
  - Schedule Risks
  - Identify Dependent Activities

Design

- **Protoypes**
  - Low Level Design
    - Web Engine
    - Drag & Drop Builder
    - Store
  - High Level Design
    - Figma UI Designs
      - Web Engine
      - Drag & Drop Builder
      - Store
  - Changes in Design
- **UML**
  - Use-Case Diagram
  - Domain Model
  - Class Diagram
  - Sequence Diagram
    - Drag & Drop Builder
    - Workflows
    - Store Modules
      - Manage Store
      - Manage Stock
      - Manage Deliveries
      - Manage Orders
      - Manage Products
  - Deployment Diagram
  - Package Diagram
  - Architecture Diagram
  - Activity Diagram
    - Drag & Drop Builder
    - Workflows
    - Store Modules
      - Manage Store
      - Manage Stock
      - Manage Products
      - Manage Deliveries
      - Manage Orders
- **Database**
  - Design Schema

Implement

- **Core Modules**
  - Create Web Engine
    - Website Information
  - UI Drag & Drop Builder
    - Editable Drag & Drop Components
    - Enable Customization
  - Create Webflows
  - Ecommerce Store Operations
    - Order Module
    - Shipment & Tracking Module
    - Payment Module
    - Inventory Module
    - Rating and Feedback
    - Management Modules
      - Manage Products
      - Manage Orders
      - Manage Stock
      - Manage Store
      - Manage Deliveries
- **Program Coding**
  - Source Code
    - Frontend
    - Backend
  - Technical Documentation
- **Database**
  - Editable Schema
  - Prepared Query Statements

Test

- **Unit Testing**
  - Web Engine Editor Components (Sections, Textual Components, etc.)
  - Web Engine Editor Styling Components
  - Editable Workflows
  - Editable Schema
- **System Testing**
  - Authentication
  - Payment Gateways
  - SQL Injection Prevention
- **Integration Testing**
  - Frontend, Backend and DB Integration
  - Ecommerce Store Modules Integraion
- **Quality Testing**
  - Check Vulnerabilities (Using Test Data)
  - Ensure Correct Styling Patterns
- **Platform Testing**
  - Ensure Portability
  - Ensure Performance

[Deployment]

- **Installation**
  - Instructions Manual
    - Platform Dependencies
    - Project Documentation
- **Deployment Services**
  - 3-Tier Containerization Architecture
  - Check Available Domain Name
  - Deploy using Docker, AWS, Azure, etc