

Chapter 5: Implementation

Chapter 5

IMPLEMENTATION

5.1 ENDEAVOR (TEAMWORK + WORK + WAY OF WORKING)

5.1.1 Team

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5.1.1.1 WBS

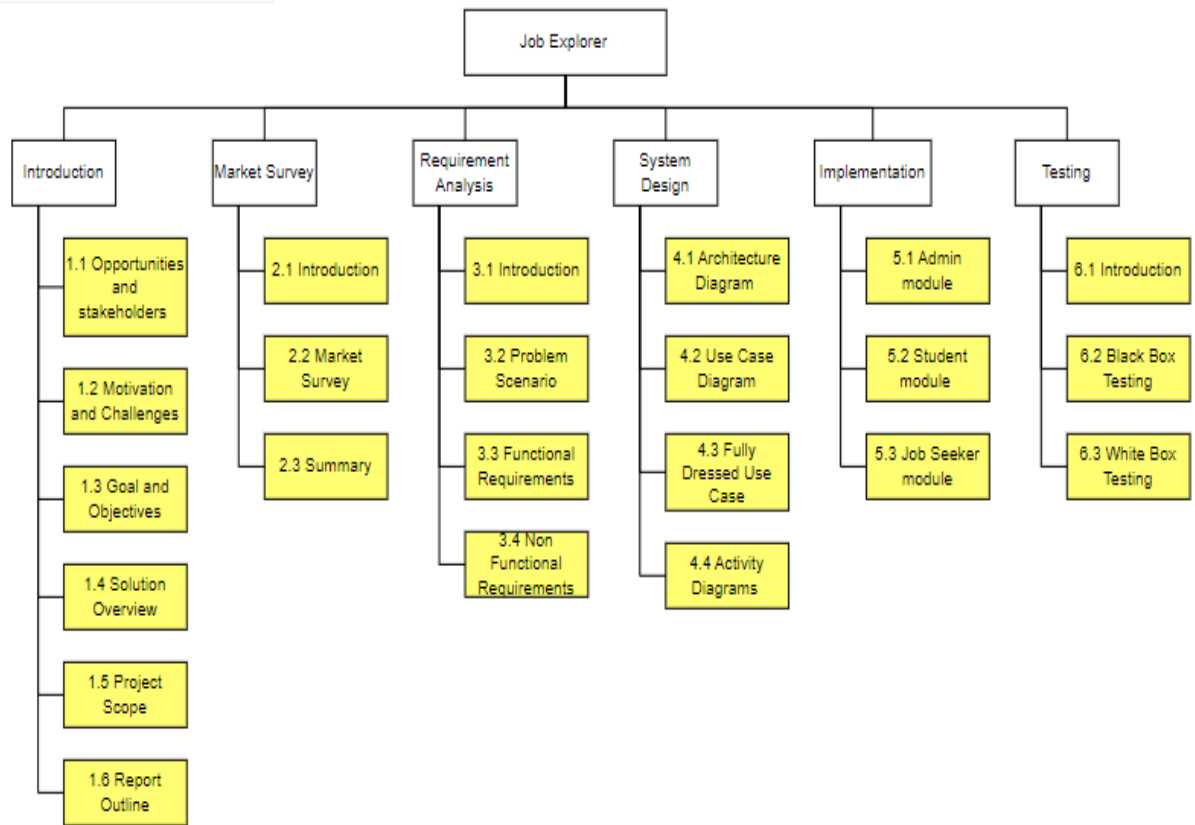


Fig 5.1: Work Breakdown Structure

5.1.2 Roles & Responsibility Matrix

Table 5.2: Roles & Responsibility Matrix

WBS #	WBS Deliverable	Activity to Complete the Deliverable	Responsible Team Member(s) & Role(s)
1.1	Final Documentation Introduction	Project proposal	Farsan khan Shahzaib Ishaq Saud Akbar

1.2	Literature / Markey Survey	We visit many related online platforms such link din, Rozee.pk.	Farsan khan Shahzaib Ishaq Saud Akbar
1.3	Requirements Analysis	Finalizing the Requirements	Farsan khan Shahzaib Ishaq Saud Akbar
1.4	System Design	Use Case Diagram, Activity Diagram, Architecture Diagram, Data Base Schema Diagram	Farsan khan Shahzaib Ishaq Saud Akbar
1.5	Frontend Implementation	Web Application Code	Farsan khan Shahzaib Ishaq Saud Akbar
1.6	Testing and performance evaluation	Evaluating System Performance Against Test Cases	Farsan khan Shahzaib Ishaq Saud Akbar

6.1.1 Way of Working

No.	Way of Working
1	Tools for team collaboration: Zoom What Sapp Group
2	Task Allocation: We create a to do list and assign tasks to each member of the team as per the guidance of supervisor.
3	Distributed version control and source code management functionality: ● GitHub

6.2 COMPONENTS, LIBRARIES, WEB SERVICES, AND STUBS

- HTML
- CSS
- React.js
- React Native
- Firebase
- Nodejs

6.3 IDE, TOOLS, AND TECHNOLOGIES

- Visual Studio code
- Firebase **Technologies**
- HTML
- CSS
- React.js
- React Native
- Firebase
- Node JS

6.4 BEST PRACTICES / CODING STANDARDS

Here are some best practices that are followed:

6.4.1 Software Engineering Practices

We use waterfall method for the best engineering practices as this method is a sequential development process

- Analysis
- Design
- Implementation
- Testing

6.4.2 Development Practices & Standards

- **Code Simplicity:** we try to Keep the simple code to reduce the complexity in development
- **Testing:** Ensure the working of all component as expected by keeping end to end continuously testing

- **Code Coherence:** While collaborating with our team we have a clear style guide for the codebase.

6.5 DEPLOYMENT ENVIRONMENT

6.5.1 Deployment Diagram

