**PROJECT MANAGEMENT SYSTEM FOR FINAL YEAR STUDENTS**

**3 TIER ARCHITECTURE:**

**Group members: TASK**

1. Safeena Akhter-04072312008 (Team Lead)
2. Haleema Sadia-04072312010 (Team Member 2)
3. Masooma Muhammadi-04072312030 (Team Member 3)

**Submission date:** 4/13/2025

**Supervised by:** Dr. Onaiza Maqbool

**Department of Computer Science**

**QUAID-E-AZAM UNIVERSITY,ISLAMABAD**

**Signature Page**

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **Signature** |
|  |  |  |
| Safeena Akhter | Team Leader |  |
| Haleema Sadia | Team member |  |
| Masooma Muhammadi | Team member |  |

**Change History:**

|  |  |  |  |
| --- | --- | --- | --- |
| **VERSION** | **DATE** | **AUTHOR** | **CHANGES MADE** |
| 1.0 | 4/13/2025 | Safeena Akhter | Initial Draft |
| 1.1 | 4/13/2025 | Safeena Akhter | Review and added team member 1 and 2 work |
|  |  |  |  |

**Remarks:**



**Preface:**

This document presents the architectural design and system components of a **Three-Tier Architecture** based software solution developed as part of the final year project titled **“Project Management System for Final Year Students.”**

This report outlines each tier in detail:

* The **Interface Layer** deals with user interaction and includes separate UI components for students, supervisors, and administrators.
* The **Domain Layer** encapsulates core business rules and logic, managing entities like projects, submissions, users, and feedback.
* The **Technical Services Layer** handles backend utilities, database interactions, and external services, enabling smooth data storage and retrieval.

**Part2 :**

**Interface layer (by :Safeena Akhter)**

Interface

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Student UI |  | | |  | | --- | | std dashboard | | | | ExploreProjects  Screen | | | |  | | --- | | Selectproject Form | | SubmitWork Form | | Recieve feedback panel | | | | |  |  | | --- | --- | | Supervisor UI |  | | |  | | --- | | Supervisor Dashboard | | Register Project  F orm | | Approve Project | | Give Feedback  F orm | | | | |  |  | | --- | --- | | Administrator UI |  | | |  |  | | --- | --- | | Admin Dashboard | | | Manage Users | | | | | |  |  | | --- | --- | | Shared UI |  | | |  | | --- | | Sign In Form | | Sign Up Form | | Notification | | | |

**Domain Layer (By haleema sadia)**

|  |  |
| --- | --- |
| Domain |  |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | Authentication |  | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | AuthService | |  | UserCredentials | | | <<interface>>  IAuthService | | | | | | | |  |  | | --- | --- | | User Management |  | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Student | |  | Supervisor | | | | Administrator | | | |  | UserService | | | <<interface>>  IUserService | | | | | | | | | | |  |  | | --- | --- | | Project Management |  | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | Project | |  | Project Service | | | <<interface>>  IProjectService | | | | | | | | |  |  | | --- | --- | | Submission Management |  | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | Work Product  Submission | |  | Submission  Service | | | <<interface>>  ISubmissionService | | | | | | | | Feedback Management |  | | | |  | | --- | | Feedback |  |  | | --- | | <<interface>>  IFeedbackService |  |  |  | | --- | --- | |  |  | | | | | |

**Technical services(by masooma muhammadi):**

|  |  |
| --- | --- |
| technical services |  |
|  | logging  SLF4J  Log4J  log service  FileStorage  FileStorageService  NotificationService  notification |
| |  |  |  |  | | --- | --- | --- | --- | | persistence | |  | | | |  | | --- | | DatadaseFacade | | | | | | Security | |  | | | |  | | --- | | passwordHasher | | | | | |