EXERCISE 1 — PROJECT INITIATION & SRS (19 TASKS)

1. PROJECT SELECTION & TEAM FORMATION

Project Title: E-Book Management System

Team Members:

- Thurupu Tharun – Project Manager

- Vemula Yaswanth Kumar – Lead Developer

- P. MD. Akram Khan – Documentation Lead

- C. Rishi Sudeep – QA Lead

2. TEAM AGREEMENT CREATION

- Meet 3× weekly

- Use GitHub for version control

- Use VS Code for development

- Everyone must complete tasks before deadlines

- Conflicts resolved with majority vote

3. PROBLEM STATEMENT DEVELOPMENT

Students and teachers struggle to store, search, and organize e-books across multiple devices. The system will provide a centralized platform to upload, categorize, search, and download academic e-books.

Target users: Students, teachers, librarians.

Value proposition: Fast access, organization, central library.

4. STAKEHOLDER ANALYSIS

Primary Stakeholders: Students, Teachers, Admin

Secondary Stakeholders: College Management, IT Team

5. STAKEHOLDER INTERESTS DOCUMENTATION

Students → access books fast.

Teachers → upload materials.

Admin → manage system.

College → digital resource improvement.

6. STAKEHOLDER REGISTER CREATION

Stakeholder | Influence | Interest | Impact

Students | Medium | High | High

Teachers | High | Medium | Medium

Admin | High | High | High

Management | High | Medium | High

7. SCOPE DEFINITION – IN-SCOPE FEATURES

- Upload PDF e-books

- Download books

- View all books

- Store metadata (title, author)

- Search functionality

8. SCOPE DEFINITION – OUT OF SCOPE

- AI recommendations

- Online PDF viewer

- Cloud storage

- Mobile application

9. SCOPE BOUNDARIES DOCUMENT

- Only PDF files allowed

- Only admin uploads

- Students only view/download

- Simple user interface

10. SRS INTRODUCTION SECTION

Purpose: Provide a digital library.

Scope: Upload, search, download.

Definitions/Acronyms:

EMS – E-Book Management System

DB – Database

UI – User Interface

11. SRS OVERALL DESCRIPTION

Product perspective: Web application.

Product functions: Upload, search, download.

User characteristics: Basic computer skills.

Constraints: PDF-only, SQLite DB, Flask backend.

12. FUNCTIONAL REQUIREMENTS DOCUMENTATION

FR-01: System shall allow admin to upload a PDF.

FR-02: System shall store metadata.

FR-03: System shall allow users to download.

FR-04: System shall list all books.

FR-05: System shall validate PDF format.

13. NON-FUNCTIONAL REQUIREMENTS DOCUMENTATION

NFR-01: Performance – load within 2 seconds.

NFR-02: Security – only admin uploads.

NFR-03: Usability – simple UI.

NFR-04: Reliability – recover from crash.

14. USE CASE DIAGRAMS CREATION

Actors: Student, Admin

Use cases: Upload book, Download book, Search, View list

15. GLOSSARY DEVELOPMENT

E-Book: Digital version of a book

Metadata: Information about book

Upload: Add book to system

16. PROJECT CHARTER SUBMISSION

Includes project vision, objectives, roles, risks, milestones.

17. STAKEHOLDER REGISTER SUBMISSION

Stakeholder register prepared and submitted.

18. COMPLETE SRS DOCUMENT

8–12 pages covering all sections.

19. REQUIREMENTS SIGN-OFF

Instructor approves and freezes requirements.