Functional Specification Document Template

1. Introduction

- **Project Name:** [Enter Project Name]

- **Version:** [Version Number]

- **Date:** [MM/DD/YYYY]

- **Authors:** [List of Contributors]

- **Purpose:** Briefly describe the project's purpose from a business perspective.

- **Scope:** Define the scope of the system, including what is covered and what is not.

2. Business Requirements

- **Objective:** Describe the business problem and the goals of the system.

- **Stakeholders:** List key stakeholders (business users, customers, product managers, etc.).

- **Assumptions & Constraints:** Any limitations affecting development (e.g., technology constraints, legal requirements).

3. System Features & Functional Requirements

Feature	Description	Priority
User Login	Allows users to log into the system	High
Book Search	Users can search for books by title/author	Medium
Borrow Book	Users can borrow books for a period	High
Return Book	Users can return borrowed books	High

4. Use Cases & User Stories

- **Use Case 1: User Login**

  - **Actors:** User

  - **Steps:**

    1. User enters email and password

    2. System verifies credentials

    3. User is redirected to the dashboard

  - **Expected Outcome:** User is logged in

- **Use Case 2: Borrow a Book**

  - **Actors:** Member, Librarian

  - **Steps:**

    1. Member searches for a book

    2. Member requests to borrow it

    3. Librarian approves the request

    4. System updates the book status

5. UI & Workflow Diagrams

- Include wireframes, flowcharts, and navigation flows for major functions.

6. Acceptance Criteria

- Users must be able to log in using valid credentials.

- Books must show availability status in real time.

- A book should not be borrowed by more than one user at a time.

7. Non-Functional Requirements

- **Performance:** System must handle 1000 users concurrently.

- **Security:** Data encryption for sensitive user data.

- **Availability:** 99.9% uptime required.

8. Dependencies & Risks

- List external systems or third-party services required.

- Identify risks that may impact project success.

9. Appendix

- Glossary of terms and references.

This document serves as a **template** for defining functional requirements clearly