# Review 1 - Project Initialization and Database Setup

## Overview:

**In Review 1, your team is required to define and submit the project title and description for the Fitness Management System. This phase is essential for clearly outlining the project's goals and scope.**

**Key Expectations:**

**Project Title: Clearly indicate the name of the Fitness Management System (e.g., "FitTrack: Fitness Management System").**

**Project Description: Briefly describe the problem being addressed (e.g., managing users' fitness data, workout plans, tracking progress) and outline your approach (e.g., using a web or mobile platform with a backend for storing data). Mention the expected outcomes, such as an easy-to-use interface for users to track their workouts and progress.**

**Format Guidelines: Follow the provided guidelines for submission and keep the description concise and clear.**

**Review Importance: This is crucial for establishing the scope of the project and getting initial feedback on the project concept.**

**Success Criteria:**

**Clearly defined problem and approach.**

**Concise description of goals and expected results.**

**Structured submission meeting format guidelines.**

# Review 2 - User Management Templates and Validation

## Overview:

**Review 2 focuses on creating user management templates for your Fitness Management System. These templates should handle essential user tasks such as login, registration, and profile management, as well as form validation to ensure data accuracy.**

**Key Expectations:**

**HTML Templates:Design templates for user management, including:**

**Login page**

**Registration page**

**User profile page**

**Password recovery page**

**CSS & Bootstrap Styling: Ensure the templates are visually appealing and responsive, using Bootstrap to ensure the pages are functional across different screen sizes.**

**JavaScript Validation and Interactivity: Add validation for user inputs (e.g., password strength, email format,**

**required fields), as well as real-time error messages and feedback to improve user experience.**

**Code Quality: Ensure clean, modular, and well-commented code that follows best practices for organization.**

**Technology-Specific Features:**

**Maven-Based Projects: Implement JSP-based pages for user management.**

**Spring Boot-Based Projects: Create JSP or HTML pages for managing users and integrate backend logic for user authentication.**

**GUI-Based Projects: Design a user-friendly interface for managing user accounts and provide input validation.**

**Console-Based Projects: Implement simple text-based input validation and feedback for user actions.**

**Success Criteria:**

**Professional, well-structured user management pages.**

**Functional validation with dynamic feedback.**

**Responsive design and clean code.**

# Review 3 - Implementation of Core Features and Project Documentation

## Overview:

**In Review 3, the focus shifts to implementing core features of the Fitness Management System, ensuring that the system works effectively and is well-documented. Key features might include user registration, login, workout tracking, progress monitoring, and more.**

**Key Expectations:**

**Code Quality: The code should be clean, modular, and well-commented. Maintain logical structure and follow coding best practices.**

**Error Handling: Implement robust error-handling to ensure smooth functionality (e.g., failed login attempts, missing data, etc.).**

**Validation: Validate user inputs for registration, login, and workout data. Implement both client-side and server-side validation.**

**Testing: Perform unit tests for individual features and integration tests for the system as a whole. Focus on edge cases like missing data or invalid inputs.**

**Technology-Specific Features:**

**Maven Projects: Create and configure Servlets to handle user registration, login, and profile management. Implement JSP to display workout progress and data.**

**Spring Boot Projects: Implement Controllers for user authentication, workout tracking, and progress monitoring. Add exception handling to manage errors.**

**GUI Projects: Implement core features like workout tracking and user profile management. Handle user events and integrate the components (e.g., forms, buttons).**

**Console Projects: Implement core functionality such as tracking workouts and providing feedback for user inputs.**

**Success Criteria:**

**Effective implementation of core features (registration, login, tracking).**

**Proper error handling and user feedback.**

**Thorough testing, including edge cases.**

**Comprehensive, easy-to-understand documentation.**

# Review 4 - Final Submission and Project Documentation

## Overview:

**Review 4 is the final submission of the Fitness Management System. This review focuses on ensuring that all features are implemented correctly, the system is tested and error-free, and that the project is well-documented.**

**Key Expectations:**

**Final Testing & Validation: Conduct final testing to ensure all features are functioning as expected. This includes user registration, login, workout tracking, and progress monitoring.**

**Project Documentation: Prepare a final reportthat includes:**

**Overview of the project, objectives, and features.**

**System architecture and design.**

**How to run and deploy the project.**

**Challenges faced and how they were overcome.**

**Code Quality: Ensure the code is clean, modular, and well-documented with meaningful comments.**

**Error Handling: Ensure that the system gracefully handles errors and provides appropriate feedback.**

**Technology-Specific Features:**

**Maven Projects: Complete unit testing for service and DAO layers, and ensure proper documentation.**

**Spring Boot Projects: Use annotations to manage the system's components. Complete unit tests for service layers and provide detailed project documentation.**

**GUI Projects: Validate user inputs (e.g., workout data), maintain good code quality, and document the entire project.**

**Console Projects: Ensure that all core features are implemented and error-handling mechanisms are in place.**

**Success Criteria:**

**Core features are fully implemented and functional.**

**Complete testing for all system components.**

**Well-organized, comprehensive documentation.**

**Code is clean, commented, and error-free.**

**Summary of Review Process for Fitness Management System**

**From Review 1 to Review 4, the Fitness Management System project is evaluated based on its foundation, design, core feature implementation, and final documentation. Here's a summary of what each stage covers:**

**Review 1: Focuses on defining the project scope and goals, including title and description.**

**Review 2: Involves creating professional HTML templates for user management, integrating form validation, and ensuring responsiveness.**

**Review 3: Focuses on core functionality, error handling, validation, testing, and documenting the implementation.**

**Review 4: The final review involves completing the project, testing all features, documenting the system, and ensuring robust error handling and validation.**