

FINAL REVIEW REPORT

Project Title: Online Banking System
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1. Executive Summary:

The Online Banking System Project aims to provide an efficient, secure, and user-friendly platform for managing banking operations. The project includes functionalities such as account management, transaction processing, and reporting. This review evaluates the project across key areas like functionality, code quality, testing, and documentation to ensure it meets the defined objectives and standards.

2. Review Summary:

Aspect	Status (✓/✗)	Remarks
Functional Features	✓	All core features (account creation, transactions, reporting) are functional.
Code Quality	✓	All core features (account creation, transactions, reporting) are functional.
Testing	✓	95% test coverage achieved; critical paths are thoroughly tested.
Security	✓	Authentication, authorization, and data validation implemented successfully.
Performance	✓	Handles 500 concurrent users in load testing with no significant lag.
Documentation	✓	Comprehensive user manual and system design provided; all diagrams updated.
Deployment	✓	Runs smoothly in the target environment; deployment scripts verified.

3. Functional Review:

Core Functionalities:

Feature	Status (✓/X)	Remarks
User Registration	✓	Working as expected; input validations implemented.
Account Management	✓	Supports account creation, update, and deletion.
Transactions	✓	Deposit, withdrawal, and fund transfer functionalities operate correctly.
Reporting and Analytics	✓	Generates accurate transaction and balance reports.

UI/UX Review:

Aspect	Status (✓/X)	Remarks
Navigation	✓	Intuitive and user-friendly interface.
Responsiveness	✓	Works well on different screen sizes.
Error Handling	✓	Displays user-friendly error messages for invalid inputs.

4. Testing Review:

- **Unit Testing:** Achieved 95% coverage with JUnit.
- **Integration Testing:** Ensured seamless interaction between DAO, Service, and Controller layers.
- **Manual Testing:** All scenarios, including edge cases, passed successfully.

Test Case ID	Module	Input	Expected Output	Status
TC001	Login Module	Valid credentials	Login successful	Passed
TC002	Transactions	Deposit \$500	Balance updated	Passed

5. Security Review:

- **Authentication:** Role-based access implemented with BCrypt password hashing.
- **Data Validation:** Validations for preventing SQL Injection and XSS attacks.
- **Secure Communication:** HTTPS enforced for secure data transmission.

6. Performance Review:

- **Load Testing:** Handles 500 concurrent users with average response time of 1.2 seconds.
- **Stress Testing:** Stable performance up to 1000 users.