



3-Week Implementation Plan for QzPlatform

Week 1: August 3, 2024 - August 9, 2024

Day 1 (August 3, 2024)

- **Project Kickoff**
 - Define project goals and objectives.
 - Finalize project requirements and scope.
 - Set up project repository and initial structure.
 - Configure development environment.

Day 2-3 (August 4-5, 2024)

- **Database Setup and Initial Models**
 - Design and implement initial database schema using Mongoose.
 - Create User, Test, and Question models.
 - Seed the database with initial data for testing.

Day 4-5 (August 6-7, 2024)

- **Authentication System**
 - Implement user registration and login endpoints.
 - Set up JWT authentication and middleware.
 - Implement password reset functionality.

Day 6-7 (August 8-9, 2024)

- **Admin Dashboard: User Management**
 - Implement CRUD operations for users.
 - Create endpoints for adding, updating, and removing users.
 - Ensure authentication and authorization for admin routes.

Day 8-9 (August 10-11, 2024)

- **Test Management**
 - Implement CRUD operations for tests.
 - Create endpoints for creating, updating, and deleting tests.
 - Set up test settings (availability, pricing, access control).

Day 10-11 (August 12-13, 2024)

- **Question Management**
 - Implement CRUD operations for questions.
 - Create endpoints for adding, updating, and removing questions.
 - Set up question settings (randomize answers, points).

Day 12-13 (August 14-15, 2024)

- **Test Administration**
 - Implement endpoint for administering tests (individual and group).
 - Set up test scheduling and notifications.
 - Ensure proctoring and session monitoring features.

Day 14 (August 16, 2024)

- **Testing and Debugging**
 - Conduct unit testing for all implemented features.
 - Debug and fix issues.
 - Review code and ensure best practices.

Week 3: August 17, 2024 - August 23, 2024

Day 15-16 (August 17-18, 2024)

- **Test Taker Dashboard**
 - Implement endpoints for viewing and taking tests.
 - Set up test-taking interface with navigation and countdown timer.
 - Implement test submission and automatic grading.

Qzplatform – backend team
Day 17-18 (August 19-20, 2024)

- **Notifications and Reporting**
 - Implement notification system (email notifications).
 - Create endpoints for sending and managing notifications.
 - Implement reporting features for test results and analytics.

Day 19-20 (August 21-22, 2024)

- **Final Testing and Debugging**
 - Conduct integration testing for the entire system.
 - Debug and fix issues.
 - Ensure all features are working as expected.

Day 21 (August 23, 2024)

- **Deployment Preparation and Documentation**
 - Prepare the application for deployment.
 - Write project documentation (README, API documentation).
 - Deploy the application to a staging environment for final review.

Daily Standups and Progress Tracking

- Schedule daily standup meetings to discuss progress, challenges, and next steps.
- Use Google Forms for daily project logging by team members.

Tools and Technologies

- **Version Control:** Git, GitHub
- **Project Management:** Trello, Slack
- **Database:** MongoDB, Mongoose
- **Backend:** Node.js, Express.js
- **Testing:** Mocha, Chai, Postman
- **Deployment:** Heroku, Docker (optional)