

Testing Plan

JMMPlatform

Testing Types

1. Unit Testing

1. **Description:** Focus on testing individual components and functions in isolation to ensure they work as expected.
2. **Tools/Frameworks:** Jest, React Testing Library, Mocha.

2. Integration Testing

1. **Description:** Test how different modules (e.g., frontend and backend) work together, focusing on data flow and communication between services.
2. **Tools/Frameworks:** Postman

3. User Acceptance Testing

1. **Description:** Validate the platform from the perspective of end-users (creators, fans, beta testers) to ensure it meets business requirements and provides a smooth user experience.
2. **Participants:** Beta testers group.
3. **Tools:** Manual testing with a structured checklist, supplemented by surveys for feedback.

Test Cases

- **Test Case 1: User Registration and TikTok Profile Linking**

- **Feature:** User registration and linking TikTok accounts.

- **Testing Type:** Unit Test, Integration Test.

- **Steps:**

- Fill out the registration form with valid details (username, email, password).
 - Link a TikTok profile using the provided URL.
 - Submit the form.

- **Expected Outcome:**

- User account is created successfully.
 - TikTok profile link is saved to the database.

Test Cases

- **Test Case 2: Competition Creation**

- **Feature:** A creator can create a competition.
- **Testing Type:** Integration Test, User Acceptance Testing.
- **Steps:**
 - Log in as a creator.
 - Navigate to the "Create Competition" page.
 - Fill in competition details (title, description, rewards, dates).
 - Submit the competition.
- **Expected Outcome:**
 - Competition is saved in the database.
 - Confirmation message is displayed.
 - Fans can see the new competition on their dashboards.

Test Cases

- **Test Case 3: Video Submission by Fans**
 - **Feature:** Fans submit videos to competitions.
 - **Testing Type:** Integration Test, User Acceptance Testing.
 - **Steps:**
 - Log in as a fan.
 - Navigate to a competition.
 - Upload a video file and add a title.
 - Submit the entry.
 - **Expected Outcome:**
 - Video is uploaded and stored successfully.
 - Status is set to "Pending" in the database.

Test Cases

- **Test Case 4: Leaderboard Updates**

- **Feature:** Dynamic leaderboard for competition rankings.

- **Testing Type:** Unit Test, Integration Test.

- **Steps:**

- Interact with the submitted videos (likes, shares, views).

- Check the leaderboard rankings.

- **Expected Outcome:**

- Rankings update in real-time based on engagement metrics.

- Leaderboard displays accurate data.

Testing Schedule

- **Week 1: Unit Testing**

- **Who:** Development Team.
- **Focus:** Core functionalities (e.g., registration, competition creation, video submission).
- **Time Expected:** 5 days.

- **Week 2: Integration Testing**

- **Who:** Development Team.
- **Focus:** Backend API and frontend communication, database interactions.
- **Time Expected:** 3 days.

- **Week 3: User Acceptance Testing**

- **Who:** Beta Testers (selected fan group).
- **Focus:** End-to-end testing of the user interface and workflows.
- **Time Expected:** 7 days.