**University Talent Promotion System - Requirements Document**

**1. Introduction**

The University Talent Promotion System is designed to showcase and nurture the talents of university students. It allows users to upload videos of their talents, view event schedules, provide feedback, and interact with other users. The system supports various roles, including users, admins, and event organizers, each with specific functionalities.

**2. Functional Requirements**

**2.1. User Authentication**

* **2.1.1. Register:**

Users must be able to register an account using an email address, username, and password.

* **2.1.2. Login:**

Users must be able to log in using their registered credentials.

* **2.1.3. Change Password:**

Users must be able to change their password.

* **2.1.4. Role Management:**

The system must support different user roles, including Admin, Standard User, and Event Organizer.

**2.2. User Profile Management**

* **2.2.1. Update Profile:**

Users must be able to update their profile information, including their name, profile picture, and contact details.

**2.3. Video Management**

* **2.3.1. Upload Videos:**

Users must be able to upload videos showcasing their talents.

* **2.3.2. View Uploaded Videos:**

Users must be able to view all videos uploaded to the system.

* **2.3.3. Save Videos:**

Users must be able to save videos for future reference.

* **2.3.4. Edit/Delete Videos:**

Users must be able to edit or delete their uploaded videos.

* **2.3.5. Video Moderation:**

Admins must be able to review, approve, or reject uploaded videos before they are made public.

**2.4. Event Management**

* **2.4.1. See Event Schedule:**

Users must be able to view a schedule of upcoming talent events.

* **2.4.2. Create/Manage Events:**

Event Organizers must be able to create and manage event schedules within the system.

* **2.4.3. RSVP to Events:**

Users must be able to RSVP to events and add them to their personal calendars.

**2.5. Communication**

* **2.5.1. Comment on Videos:**

Users must be able to leave comments on videos.

* **2.5.2. Chat with Other Users:**

Users must be able to chat with other users within the system.

* **2.5.3. Content Moderation:**

Admins must be able to moderate comments and chats to ensure compliance with community guidelines.

**2.6. Feedback & Interaction**

* **2.6.1. Provide Feedback:**

Users must be able to provide feedback on videos and events.

**2.7. Payment Management**

* **2.7.1. View Payment Status:**

Users must be able to view their payment status if they have made any payments related to events or premium features.

* **2.7.2. Payment Integration:**

The system must support payment gateways for processing transactions.

* **2.7.3. Invoicing:**

Users must receive invoices and payment confirmations.

**2.8. Notification System**

* **2.8.1. Receive Notifications:**

Users must receive notifications for important activities such as new video uploads, event reminders, and comment responses.

* **2.8.2. Email Notifications:**

Email notifications should be sent for account-related actions like password changes and event reminders.

**2.9. Search Functionality**

* **2.9.1. Search:**

Users must be able to search for videos, events, or other users using keywords.

* **2.9.2. Advanced Search:**

Users must be able to filter search results by categories, dates, and other criteria.

**2.10. Analytics and Reporting**

* **2.10.1. Access System Analytics:**

Admins must be able to view system usage analytics, including the number of active users, video uploads, and event participation.

* **2.10.2. User Statistics:**

Users must be able to view statistics on their uploaded videos, such as views and comments.

**3. Non-Functional Requirements**

**3.1. Performance**

* **3.1.1. Scalability:**

The system must be able to scale horizontally to support an increasing number of users and videos without performance degradation.

* **3.1.2. Response Time:**

The system should ensure that all pages load within 2 seconds under standard load conditions.

* **3.1.3. Video Processing Time:**

Uploaded videos should be processed and available for viewing within 5 minutes.

**3.2. Security**

* **3.2.1. Data Encryption:**

All user data, including passwords, must be encrypted in storage and during transmission.

* **3.2.2. Multi-Factor Authentication:**

The system should implement multi-factor authentication for sensitive actions such as password changes and admin actions.

* **3.2.3. Content Screening:**

The system must automatically screen videos for inappropriate content before publishing.

**3.3. Usability**

* **3.3.1. User Interface:**

The interface must be intuitive and easy to navigate for users of all technical levels.

* **3.3.2. Accessibility:**

The system must be accessible on both desktop and mobile devices.

**3.4. Reliability**

* **3.4.1. Uptime:**

The system should maintain an uptime of 99.9% or higher.

* **3.4.2. Data Backup:**

Regular backups must be performed to prevent data loss.

**3.5. Maintainability**

* **3.5.1. Code Quality:**

The codebase must be modular, well-documented, and follow best practices to facilitate easy maintenance and updates.

* **3.5.2. Deployment:**

System updates should be deployable with minimal downtime.

**3.6. Compliance**

* **3.6.1. Data Protection:**

The system must comply with relevant data protection regulations (e.g., GDPR) to protect user privacy.

* **3.6.2. Legal Documentation:**

The system must provide clear terms of service and a privacy policy to users.

**3.7. Support**

* **3.7.1. User Support:**

The system should offer support features such as FAQs, tutorials, and customer service chat.

* **3.7.2. Feedback Mechanism:**

Users should have a clear and accessible way to provide feedback about the system