Requirement Document for SkillUp Daily

1. Introduction

1.1 Project Overview

SkillUp Daily is a mobile web application designed to provide users with daily tasks or hobbies aimed at improving their skills and overall personality. The application will feature a points system to track user progress and a leaderboard for comparing scores among users.

1.2 Purpose

The purpose of this document is to outline the requirements for the development of the SkillUp Daily web application. This document will serve as a guide for the development team to ensure all necessary features and functionalities are implemented.

1.3 Scope

This document covers the functional and non-functional requirements, user interfaces, and system architecture for the SkillUp Daily web application.

2. Functional Requirements

2.1 User Registration and Authentication

- **2.1.1 User Registration:** Users should be able to register using their email, social media accounts, or phone number.
- **2.1.2 User Login:** Users should be able to log in using their registered credentials or social media accounts.
- **2.1.3 Password Recovery:** Users should be able to reset their password via email or SMS.

2.2 Daily Task Generation

- **2.2.1 Task Database:** Maintain a database of tasks/hobbies categorized by skill type (e.g., cognitive, physical, creative).
- **2.2.2 Task Assignment:** Assign a daily task to each user based on their preferences and past activities.
- **2.2.3 Task Notification:** Send daily notifications to users about their assigned tasks.

2.3 Task Completion and Tracking

- **2.3.1 Task Submission:** Users should be able to submit proof of task completion (e.g., text, photo, video).
- **2.3.2 Task Verification:** Implement a system for verifying task completion (manual or automated).
- **2.3.3 Points Allocation:** Allocate value points to users based on task completion and verification.

2.4 Leaderboard and Social Features

- **2.4.1 Points Tracking:** Track and display user points on their profile.
- **2.4.2 Leaderboard:** Display a leaderboard showing the top

users based on points.

- **2.4.3 Social Sharing:** Allow users to share their achievements and leaderboard status on social media.

2.5 User Profile and Preferences

- **2.5.1 Profile Management:** Allow users to create and manage their profiles, including personal information and preferences.
- **2.5.2 Skill Preferences:** Allow users to set preferences for the types of skills they want to improve.
- **2.5.3 Activity History:** Display a history of completed tasks and earned points.

3. Non-Functional Requirements

3.1 Performance

- **3.1.1 Scalability:** The application should be able to handle a growing number of users without performance degradation.
- **3.1.2 Response Time:** The application should load and respond to user actions within a reasonable time frame (e.g., under 2 seconds).

3.2 Security

- **3.2.1 Data Encryption:** Implement data encryption for sensitive user information.
- **3.2.2 Secure Authentication:** Use secure authentication methods to protect user accounts.
- **3.2.3 Data Privacy:** Ensure user data privacy and comply with relevant data protection regulations.

3.3 Usability

- **3.3.1 User-Friendly Interface:** Design a user-friendly and intuitive interface.
- **3.3.2 Accessibility:** Ensure the application is accessible to users with disabilities.

3.4 Compatibility

- **3.4.1 Cross-Platform:** Ensure the application is compatible with various mobile devices and web browsers.
- **3.4.2 Instant Apps:** Optimize the application for instant app functionality, allowing users to access it without installation.

4. User Interface Requirements

4.1 Registration and Login Screens

- **4.1.1 Registration Form:** Fields for email, social media accounts, or phone number.
- **4.1.2 Login Form:** Fields for email/phone number and password.
- **4.1.3 Password Recovery:** Option to reset password.

4.2 Home Screen

- **4.2.1 Daily Task Display:** Show the assigned daily task with details and completion options.
- **4.2.2 Notification Icon:** Display notifications for new tasks and other updates.

4.3 Task Submission Screen

- **4.3.1 Submission Options:** Allow users to submit text, photos, or videos as proof of task completion.
- **4.3.2 Submit Button:** Button to submit the task for verification.

4.4 Leaderboard Screen

- **4.4.1 Leaderboard Display:** Show the top users and their points.
- **4.4.2 User's Position:** Highlight the current user's position on the leaderboard.

4.5 Profile Screen

- **4.5.1 Profile Information:** Display user's personal information and preferences.
- **4.5.2 Points and History:** Show total points earned and history of completed tasks.

5. System Architecture

5.1 Backend

- **5.1.1 Database:** Design a robust database to store user data, tasks, and points.
- **5.1.2 API:** Develop secure APIs for user authentication, task management, and points tracking.

5.2 Frontend

- **5.2.1 Responsive Design:** Implement a responsive design to ensure compatibility with various devices.
- **5.2.2 Framework:** Use a suitable frontend framework (e.g., React, Angular) for efficient development.

5.3 Third-Party Integrations

- **5.3.1 Social Media:** Integrate with social media platforms for registration and sharing.
- **5.3.2 Notification Service:** Use a third-party service for sending notifications.

6. Testing and Quality Assurance

6.1 Unit Testing

- Perform unit testing on individual components to ensure they function correctly.

6.2 Integration Testing

- Conduct integration testing to ensure different components work together seamlessly.

6.3 User Acceptance Testing

- Carry out user acceptance testing to verify the application meets user requirements and expectations.

6.4 Performance Testing

- Test the application's performance under various conditions to ensure it meets performance requirements.

7. Deployment and Maintenance

7.1 Deployment

- Deploy the application on a reliable hosting platform with adequate resources.

7.2 Maintenance

- Regularly update the application to fix bugs, add new features, and ensure security.

8. Conclusion

This requirement document outlines the key components and functionalities needed for the development of the SkillUp Daily web application. By adhering to these requirements, the development team can create a robust, user-friendly, and effective e-learning platform that helps users improve their skills and overall personality.