

Mini Project - Feature Requirement Document

Overview

This document outlines the detailed requirements for developing the user signup, login, profile management, access control, and admin panel processes for the application. Each feature is described in terms of its functionality, expected behavior, acceptance criteria, and how it integrates with other features.

1. Signup Process

1.1 Social Signup (Account Merge)

- **Requirement:** Implement the ability for users to sign up using their social media accounts (e.g., Facebook, Google).
- **Functionality:** If an account with the same email already exists, the system should merge the social media account with the existing account.
- **Expected Behavior:** Users should be able to seamlessly create an account or merge with an existing one using their social media credentials.
- **Acceptance Criteria:**
 - Users can sign up using at least two social media platforms.
 - If an email already exists, the accounts are merged without data loss.
 - Users are redirected to the dashboard after successful signup.

1.2 Standard Signup

- **Requirement:** Allow users to sign up by providing their email address and creating a password.
 - **Functionality:** Upon successful signup, the system should send a confirmation email to the user.
 - **Expected Behavior:** Users receive a confirmation email and must confirm their email address to activate their account.
 - **Acceptance Criteria:**
 - Users can sign up with an email and password.
 - Confirmation email is sent to the registered email address.
 - Users can confirm their email and activate their account by clicking the link in the email.
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2. Account Verification

2.1 Email Verification through Link

- **Requirement:** Implement email verification through a verification link.
- **Functionality:** After signup, send a verification link to the user's registered email address. The user must click this link to verify their email.
- **Expected Behavior:** The system validates the link and marks the email as verified.
- **Acceptance Criteria:**
 - A verification link is sent to the registered email after signup.
 - Users can click the verification link to verify their email address.
 - The system confirms the email verification upon clicking the link

2.2 OTP Verification through SMS

- **Requirement:** Implement OTP verification for mobile numbers.
- **Functionality:** Send an OTP to the user's registered mobile number via SMS. The user must enter this OTP to verify their mobile number.
- **Expected Behavior:** The system validates the OTP and marks the mobile number as verified.
- **Acceptance Criteria:**
 - OTP is sent to the registered mobile number after signup.
 - Users can enter the OTP to verify their mobile number.
 - The system confirms the mobile number verification upon correct OTP entry.

3. Login

3.1 Login

- **Requirement:** Allow verified users to log in using their email and password or through social media accounts.
- **Functionality:** Implement authentication mechanisms for standard and social media logins.
- **Expected Behavior:** Users can log in successfully if their credentials are correct and their account is verified.
- **Acceptance Criteria:**
 - Users can log in using email and password.
 - Users can log in using social media accounts.

- Only verified accounts can access the dashboard after login.
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4. Profile Management

4.1 Profile Picture Upload

- **Requirement:** Provide users with the ability to upload a profile picture.
- **Functionality:** Store the uploaded profile picture and display it as a thumbnail in the user's profile.
- **Expected Behavior:** Users can see their uploaded profile picture in their profile and on the user listing page.
- **Acceptance Criteria:**
 - Users can upload a profile picture.
 - The profile picture is displayed as a thumbnail in the user's profile.
 - The profile picture is visible on the user listing page.

4.2 Profile Management (Address, Auto Suggestion, Display in Map)

- **Requirement:** Allow users to manage their profile details, including address information.
- **Functionality:** Implement auto-suggestions for the address field and display the location on a map.
- **Expected Behavior:** Users can update their address details, receive auto-suggestions, and see their location on a map.
- **Acceptance Criteria:**
 - Users can update their address details.
 - Address field provides auto-suggestions as the user types.
 - The address is displayed on a map within the profile.

4.3 Profile Download

- **Requirement:** Enable users to download their profile information in a specified format.
- **Functionality:** Provide an option for users to export their profile data.
- **Expected Behavior:** Users can download their profile information in a well-formatted document.
- **Acceptance Criteria:**
 - Users can request to download their profile information.
 - Profile data is exported in a user-friendly format.
 - Downloaded profile includes all relevant user details.

5. Payment Processing

5.1 Payment Gateway

- **Requirement:** Integrate a payment gateway to process payments for premium services.
- **Functionality:** Handle transactions securely and update the user's access level based on the payment made.
- **Expected Behavior:** Users can make payments, and their account is upgraded to the appropriate access level upon successful payment.
- **Acceptance Criteria:**
 - Users can initiate payments through the payment gateway.
 - Payment transactions are secure and processed correctly.
 - User access level is upgraded immediately upon successful payment.

6. Access Control

6.1 Free Plan

- **Requirement:** Provide a basic access level for users without any payment.
- **Functionality:** Grant limited feature access to users with the Free plan.
- **Expected Behavior:** Users with the Free plan can use the basic features of the application.
- **Acceptance Criteria:**
 - Users with the Free plan can access basic features.
 - Free plan users are periodically prompted to upgrade for more features.
 - The Free plan status is stored in the user's profile and displayed in the admin panel.

6.2 Silver Plan

- **Requirement:** Provide a mid-tier access level with additional features for paid users.
- **Functionality:** Upgrade user access level to Silver upon successful payment.
- **Expected Behavior:** Users with the Silver plan can use more features than those with the Free plan.
- **Acceptance Criteria:**
 - Users can upgrade to the Silver plan via a payment gateway.
 - Silver plan provides additional features compared to the Free plan.

- Silver plan access is activated immediately after payment.
- The Silver plan status is stored in the user's profile and displayed in the admin panel.

6.3 Gold Plan

- **Requirement:** Provide the highest access level with full feature access for paid users.
- **Functionality:** Upgrade user access level to Gold upon successful payment.
- **Expected Behavior:** Users with the Gold plan can use all the features of the application.
- **Acceptance Criteria:**
 - Users can upgrade to the Gold plan via a payment gateway.
 - Gold plan provides full feature access.
 - Gold plan access is activated immediately after payment.
 - The Gold plan status is stored in the user's profile and displayed in the admin panel.
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7. Admin Panel

7.1 Admin Role

- **Requirement:** Implement an admin role with special privileges to manage the application.
- **Functionality:** Admins can log in with their credentials to access the admin panel.
- **Expected Behavior:** Admins have access to advanced management features within the application.
- **Acceptance Criteria:**
 - Admins can log in with special credentials.
 - Admin panel is accessible only to admin users.
 - Admins have access to user management and other administrative features.

7.2 User Listing with Search, Filter, and Pagination

- **Requirement:** Provide an interface for admins to view a list of all users.

- **Functionality:** Implement search, filter, and pagination functionalities to help admins manage users effectively.
- **Expected Behavior:** Admins can search for users, apply filters, and navigate through pages of user listings.
- **Acceptance Criteria:**
 - Admins can view all users in a list.
 - Admins can search and filter users based on various criteria.
 - User list is paginated for easy navigation.

7.3 User Listing

- **Requirement:** Display all users in a list format.
- **Functionality:** Show basic information of each user in the list.
- **Expected Behavior:** Admins can see a comprehensive list of users with basic details.
- **Acceptance Criteria:**
 - All users are displayed in a list.
 - Basic information such as name, email, and status is shown for each user.

7.4 User Listing Search

- **Requirement:** Enable admins to search for specific users using various criteria.
- **Functionality:** Implement search functionality based on name, email, or other relevant fields.
- **Expected Behavior:** Admins can quickly find specific users using the search feature.
- **Acceptance Criteria:**
 - Admins can search users by name, email, or other criteria.
 - Search results are accurate and displayed quickly.

7.5 User Listing with Pagination

- **Requirement:** Implement pagination for the user listing to manage large numbers of users efficiently.
 - **Functionality:** Allow admins to navigate through different pages of the user list.
 - **Expected Behavior:** Admins can easily browse through user information in a paginated format.
 - **Acceptance Criteria:**
 - User list is divided into pages.
 - Admins can navigate between pages to view more users.
 - Pagination controls are user-friendly and responsive.
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8. Deployment

8.1 Deployment

- **Requirement:** Deploy the application using a suitable deployment tool or platform.
- **Functionality:** Ensure the application is hosted and accessible to users.
- **Expected Behavior:** The application is live and operational for end-users and admins.
- **Acceptance Criteria:**
 - Application is successfully deployed and accessible.
 - All features are functional in the live environment.
 - Users and admins can access the application without issues.

FAQ

Q: Which social login options should we implement?

A: You can choose your own social login options, but Facebook and Google are recommended as they are easier to implement than others.

Q: Which payment gateway should we use?

A: You can use Stripe's free/sandbox version for the payment gateway.

Q: Which service should be used for address updates and suggestions?

A: The address update will only use the Google Map service for autosuggestions and pins on the map, provided by Google APIs.

Q: Are there any special offerings on the pricing plans?

A: There are no special offerings on the pricing. Users can pay for the plans, and the plan details must be stored and linked with the user.

Q: How should the user search functionality be handled?

A: The search of the users by their names must handle along with the filter and pagination. This means refreshing a page must not lose the search criteria, filter, and pagination settings.