read foundation

Features and Functionalities of READ Connect Mobile Application

1. Project Overview

The READ Connect mobile application is a dedicated platform for READ Foundation donors, designed to provide real-time access to donation history, project details, and personalized reports. This application aims to enhance donor engagement, streamline communication, and improve transparency by offering a user-friendly interface for managing their contributions and staying informed about the impact of their donations.

2. Objectives

- Provide donors with a comprehensive overview of their contributions.
- Enable donors to track the progress of specific projects they have supported.
- Facilitate easy access to receipts, reports, and notifications.
- Offer a secure platform for managing personal information and donations.
- Streamline communication between donors and the READ Foundation.
- Payment option through the Application

3. Features and Functionalities

3.1 User Registration & Authentication

3.1.1 Sign-Up Process

- **User Input:** Users can register using their Donor ID and Name.
- **Field Validations:** Implement validations for all input fields to ensure data integrity.
- **Verification:** Email or phone verification will be required to confirm the user's identity.
- **Biometric:** Login option

3.1.2 Sign-In Process

- **Login Mechanism:** Secure user login with support for both email and phone number.
- **Error Handling:** Provide feedback for unsuccessful login attempts (e.g., incorrect password, unverified account).
- **Session Management:** Maintain user sessions securely, with the ability to log out remotely.

3.1.3 Password Management

- **Forgot Password:** Allow users to reset their password via email or SMS with a secure token.

- **Change Password:** Users can change their password within the app, adhering to password policies (e.g., minimum length, use of special characters).
- **Password Strength Indicator:** Provide feedback on password strength during password creation or change.

3.2 User Profile Management

3.2.1 Profile Overview

- **Profile Information:** Display user profile details, including name, contact information, and profile picture.
- **Profile Picture:** Users can upload and change their profile picture.

3.2.2 Profile Updates

- **Editable Fields:** Users can update personal information such as email, phone number, and address.
- **API Integration:** Integrate APIs to handle profile updates securely and in real-time.

3.3 Donor Profile & History

3.3.1 Donation History

- **Comprehensive Overview:** Display a detailed history of all donations made by the user.
- **Filtering Options:** Users can filter donation history by:
  - Donation head (e.g., OSP, School Enhancement, School Building).
  - Time period (e.g., last week, last month, custom date range).
  - Amount range.
- **Receipt Access:** Users can view and download donation receipts in JPG, PDF, or Excel formats.

3.3.2 Project Details

- **Project Listings:** Provide a list of all ongoing and completed projects.
- **Project Filters:** Allow users to filter projects by:
  - Project name.
  - Duration.
  - Amount donated.
  - School, region, gender, and class selection.
- **Progress Reports:** Users can access detailed progress reports of the projects they have supported, with options to download them in various formats.

3.4 User Roles and Management

3.4.1 User Roles

- **Super Admin:** Highest level of access with capabilities to manage all aspects of the application.
- **Admin:** Intermediate level with restricted access based on assigned permissions.
- **End User:** Donors and other general users with access to personal and donation-related features.

3.4.2 Super Admin Capabilities

- **User Management:**
  - Create, edit, and delete Admin and End User accounts.
  - Assign roles and permissions to Admins.
  - Reset passwords for Admins and End Users.
  - Log in as any End User for troubleshooting and support.
- **Content Management:**
  - Create, edit, and delete content within their permitted scope.
- **Reporting & Analytics:**
  - Access detailed reports on End User activities and content performance.
  - Generate reports related to their scope of management.

3.4.3 Admin Capabilities

- **User Management:**
  - Manage user profiles and account details.
  - Log in as any End User within their scope for support and troubleshooting.
- **Content Management:**
  - Create, edit, and delete content within their permitted scope.
- **Reporting & Analytics:**
  - Access and generate basic reports on End User activities and content performance.

3.4.4 End User Management

- **Profile Management:**
  - View and update personal information.
- **Account Settings:**
  - Change passwords, update security settings.
- **View Activity History:**
  - Track logins, transactions, and other interactions within the app.

3.5 User Interface and Experience

3.5.1 Design Principles

- **Intuitive Design:** Focus on user-friendly interfaces, ensuring ease of navigation for all user types (Super Admin, Admin, End User).

- **Clear Role Differentiation:** Ensure clear visual differentiation in the UI when an Admin or Super Admin is logged in as an End User to avoid confusion.
- **Responsive Design:** The application will be optimized for various devices and screen sizes, providing a seamless experience across mobile devices.

3.5.2 User Experience Enhancements

- **Interactive Elements:** Include interactive charts, graphs, and filters to enhance user engagement.
- **User Feedback:** Implement feedback mechanisms to capture user satisfaction and issues.

3.6 API Integration

3.6.1 User Management APIs

- **Registration API:** For creating new user accounts.
- **Authentication API:** For managing sign-in, sign-out, and session handling.
- **Password Management API:** For handling password reset, change, and verification.
- **Profile Management API:** For updating user profiles and information.

3.6.2 Content Management APIs

- **Content API:** For managing project details, donation history, and other content.
- **Notification API:** For sending and managing user notifications.

3.6.3 Reporting and Analytics APIs

- **Reports API:** For generating and retrieving reports related to user activities, donations, and project progress.
- **Analytics API:** For accessing and displaying data analytics in real-time.

3.7 Reports

3.7.1 Report Types

- **Donations Report:** Detailed reports on donations by date, amount, and donor.
- **Project Progress Report:** Reports on the progress of supported projects.
- **User Activity Report:** Reports on user interactions within the app.

3.7.2 Comparative Analysis

- **Textual Comparisons:** Provide textual comparisons, e.g., "Donations increased by 15% compared to the previous month."
- **Graphical Comparisons:**
    - Bar charts, line graphs, and pie charts to visualize data trends.

    - Customizable report views based on user-selected filters.

3.7.3 Customization and Filters

- **Date Range Selection:** Allow users to customize reports by selecting specific date ranges.
- **Metric Filters:** Enable users to filter reports based on specific metrics, such as donation amount, project type, etc.

3.7.4 Real-time Data and Updates

- **Real-time Integration:** Integrate with real-time data sources for up-to-date reporting.
- **Automatic Refresh:** Reports should auto-refresh to reflect the latest data.

3.8 Donations Module

3.8.1 Donation List

- **Comprehensive Listing:** Display all donations with details such as donor name, amount, date, and purpose.
- **Detailed View:** Option to view more detailed information for each donation entry.

3.8.2 Filtering Options

- **Date Filters:** Allow users to filter donations by specific date ranges.
- **User-Based Filters:** Enable filtering based on donor information, donation amount, frequency, or type (one-time, recurring).
- **Additional Filters:** Include filters for purpose, category, payment method, and donation status.

3.8.3 Search Functionality

- **Search Bar:** Implement a search bar for quick lookup of donations by keywords.

3.8.4 Download and Export Options

- **Export Formats:** Provide options to download the filtered list of donations in CSV, Excel, and PDF formats.

3.8.5 API Integration

- **Donation API:** To fetch and filter donations by various criteria.
- **Export API:** For exporting donation data in user-specified formats.

3.9 Notifications Module

3.9.1 Notification Management

- **Inbox Feature:** A dedicated section within the app where users can view and manage past notifications.
- **Notification History:** Allow users to access a log of received notifications, with options to mark as read or delete.

3.9.2 Real-time Notifications

- **Push Notifications:** Real-time push notifications for updates on donations, project progress, and other important information.

3.10 Payment Gateway Integration

3.10.1 Payment Gateway Options

- **Integration Options:** Include popular payment gateways like Paypro, Easypaisa, JazzCash, and manual entry for offline payments.

3.10.2 PayPro Integration

- **API Integration:** Seamlessly integrate the PayPro API for direct payments, refunds, and viewing transaction history.
- **User Flow:** Guide users through the payment process with clear instructions and confirmations.

3.10.3 JazzCash Integration

- **API Integration:** Integrate JazzCash API for seamless transactions, supporting features like direct payments, refunds, and transaction history.
- **User Flow:** Provide a user-friendly interface for making payments via JazzCash.

3.10.4 Manual Entry for Donor Payments

- **Admin Entry:** Allow admins to manually record donations received through offline methods (e.g., bank transfers, cash

3.11.1 Data Security and Privacy

- The Application shall ensure the data confidentiality, security and privacy of the Donors. It should be easily available, easy to install and easy to maintain.