Service Provider App - Technical Specifications

1. Introduction

The service provider app enables freelancers to manage job requests, communicate with clients, handle cost estimates, track earnings, and manage their profiles and subscriptions. The app will be hosted on Heroku, using MongoDB for data storage, Flutter for the frontend, and either Node.js or Django for the backend. The authentication will be based on phone number verification, and the payment gateway will use a local provider.

2. Core Features Overview

1. User Authentication:

- - Registration and login using phone number only (OTP verification).
- - Password recovery via phone number.

2. Service Provider Dashboard:

- - View available jobs, manage service history, and view earnings.
- - Job requests, accept/decline jobs, and submit cost estimates.

3. In-Progress Jobs:

- - Communicate with clients during job execution.
- - Update job progress and completion status.

4. Earnings and Balance:

- - Track earnings and request withdrawals.
- - View transaction history.

5. Profile Management:

- - Manage personal details, services offered, and subscription plans.
- - Edit profile, manage notifications, and log out.

6. Subscription Management:

- - Subscription plans for accessing the app.
- - Ability to upgrade, renew, or cancel subscription plans.

3. Technology Stack

Frontend: Flutter (iOS & Android) for cross-platform mobile app development.

Backend: Node.js (Express) or Django with MongoDB for flexible data management.

Authentication: Phone number authentication with OTP verification. (FIREBASE OTP)

Payment Gateway: Integration with a local payment gateway provider. (WILL PROVIDE API LATER)

Real-Time Communication: WebSockets (Socket.IO) for real-time communication.

Push Notifications: Firebase Cloud Messaging (FCM).

Location Services: Google Maps API for job location tracking.

Hosting: Heroku with MongoDB Atlas for database management. (Will Provide the account)

4. Key Functional Requirements

User Authentication
- Providers register using their phone number with OTP verification.
- Login using phone number and OTP.
- Resend OTP option, with rate-limiting.

Service Provider Dashboard
- Display available jobs with brief details.
- Job status filtering (Pending, In Progress, Completed) and job history.
- Accept or decline job options, add notes before acceptance.

Cost Estimation
- Submit cost estimate with labor, materials.
- Cost revisions before approval.
- Cost templates for common services.

In-Progress Jobs
- Real-time communication, file sharing (photos).
- Job pause/resume options.
- Time tracking for job duration.

Job Completion

- Mark job as complete and request feedback.
- Ensure payment confirmation before feedback.

Earnings and Balance

- Earnings breakdown and pending payments.
- Withdrawal requests with minimum balance threshold alerts.

Profile Management

- Editable profile, service offerings, and portfolio of past work.
- Custom services and portfolio additions.

Subscription Page

- View subscription plans, upgrade/renew options.
- Free trial period.

Notifications

- Job request and earnings notifications.
- Reminder system for job deadlines, payment, subscription renewal.

Feedback and Rating

- Rate and leave feedback for clients.
- Response option for provider feedback.

Tasks for Chatting Page

1. **Send and Receive Messages:** Providers can communicate with clients in real-time through text.
2. **Share Files:** Providers can upload images of the job progress for clients to review.
3. **Push Notifications:** Notifications for new messages, even if the app is closed.
4. **Access Chat History:** Providers can view previous conversations related to the job.
5. **Typing Indicators:** Show when the client is typing.

Tasks for Multi-Language Support

1. **Select Language:** Providers can choose their preferred language during registration or from profile settings.
2. **Multi-Language UI:** All app elements will display in the selected language.
3. **Localize Data:** Dates, times, and currencies should be formatted based on the selected language.
4. **RTL Support:** Ensure the layout adjusts properly for RTL languages (e.g., Arabic).
5. **Language Toggle:** Providers can switch languages anytime from profile settings.