SkillLink – Complete Project Documentation

# 1. Project Overview

SkillLink is an on-demand service marketplace mobile application designed for the Pakistani market. It connects customers with local skilled workers such as electricians, plumbers, masons, and house cleaners. The goal is to provide a fast, secure, and commission-free platform to request home-based services.

# 2. Technology Stack

- Frontend: Flutter  
- Backend: Laravel (PHP)  
- Database: MySQL  
- API: RESTful  
- Maps: Google Maps SDK  
- Notifications: Firebase Cloud Messaging (FCM)

# 3. Folder/File Structure Overview

SkillLink is divided into two main components: the Flutter frontend and the Laravel backend.  
  
Flutter Frontend:  
- /lib  
 - main.dart  
 - /screens  
 - /widgets  
 - /services  
  
Laravel Backend:  
- /app  
 - /Http/Controllers  
 - /Models  
- /routes  
 - api.php  
- /resources/views

# 4. Flutter Frontend File Descriptions

- main.dart: Entry point of the app  
- /screens: Contains all UI screens (Login, Home, Booking, etc.)  
- /widgets: Reusable widgets like buttons, cards, etc.  
- /services: API service handlers

# 5. Laravel Backend File Descriptions

- /Controllers: Handles API requests and business logic  
- /Models: Database models for users, bookings, services, etc.  
- api.php: Defines all API routes

# 6. API Routes & Controllers

Example Routes:  
- POST /api/login  
- GET /api/services  
- POST /api/book-service  
- GET /api/user/bookings

# 7. Database Design

Main Tables:  
- Users  
- Services  
- Bookings  
- Reviews  
- Payments  
  
Each table has foreign key relationships. The ERD diagram can be shared separately if needed.

# 8. User Roles & Access Permissions

- Admin: Full access to all modules  
- Customer: Can book services, post reviews  
- Worker: Can accept/reject service requests

# 9. Setup & Installation Instructions

Frontend (Flutter):  
- flutter pub get  
- flutter run  
  
Backend (Laravel):  
- composer install  
- php artisan migrate  
- php artisan serve

# 10. Special Features

- Google Maps location picker  
- Review & rating system  
- OTP verification  
- Real-time notifications  
- Emergency bookings