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1.USER STORY

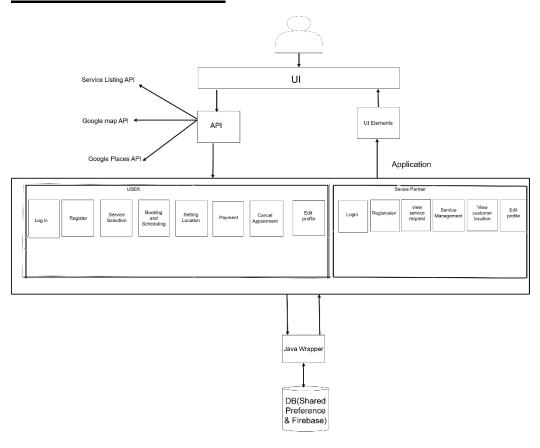
User will have the following functionality

- Registration and Login
- Service Selection
- Booking and Scheduling
- Setting location
- Edit profile
- Payment Gateway
- cancel appointment

Service partner will have the following functionalities

- Registration and Login
- Service Management
- view the location of user
- Payment Managemet
- Edit profile

2.ARCHITECTURE



3.TECHNOLOGY

3.1 FRONT END TOOLS:

- LottieFiles(Lottie is an open-source animation file format that's tiny, high quality, scriptable, interactive, and can be manipulated at runtime. The top 500 apps on the App store now use Lottie to engage users and enhance conversions.
- XML:XML tags define the data and used to store and organize data. It's easily scalable and simple to develop. In Android, the XML is used to implement UI-related data, and it's a lightweight markup language that doesn't make layout heavy. XML only contains tags, while implementing they need to be just invoked favorite messaging apps and let them serve your customers continuously.

3.2 BACK END TOOLS

Java: High-level, Object-oriented Programming Language

- Widely used for developing various software applications
- Known for platform independence and versatility
- Popular for server-side development and back-end systems

Google Auth: Secure User Authentication

- Offers authentication services for web and mobile apps
- Simplifies user authentication and management

Google Maps API: Location and Mapping Services

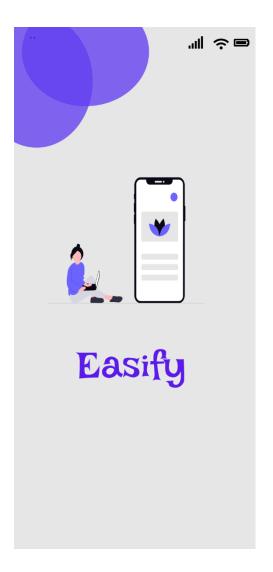
- Provides mapping and location-related functionalities
- Enables integration of maps and location services into applications

3.3 DATABASE

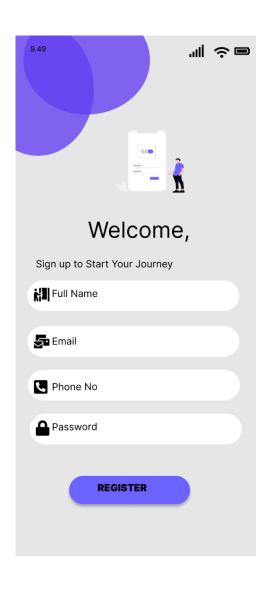
Firebase : Firebase Realtime Database is a cloud-based database that stores and syncs data in real time across multiple devices. It's part of Firebase, a Backend-as-a-Service (BaaS) platform that offers hosted backend services for app development.

4.FIREFRAMES

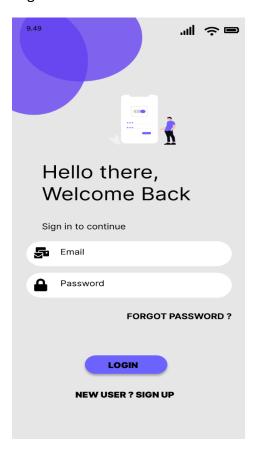
Splash screen



Registration screen



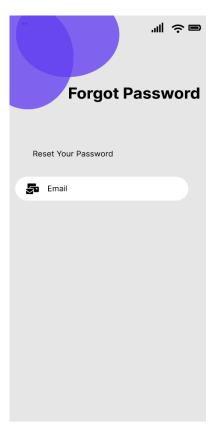
Login Screen



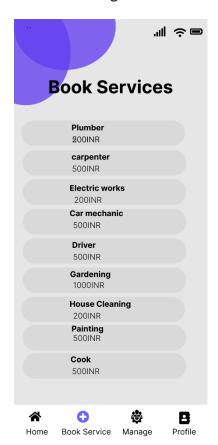
Home screen



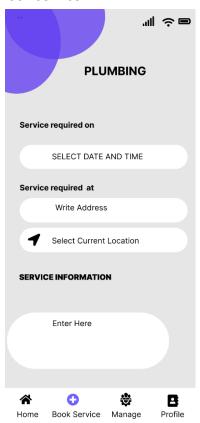
Forgot password



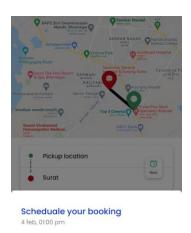
Service listing



Book service



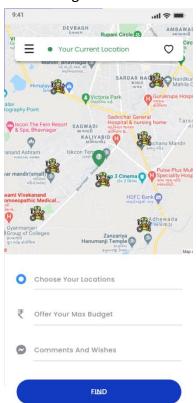
Scheduling



Thu 3 feb 12 45 am Fri 4 feb 1 : 00 pm Sat 5 feb 2 15



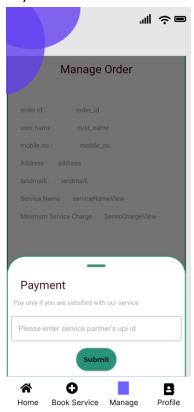
setting location



Manage Order



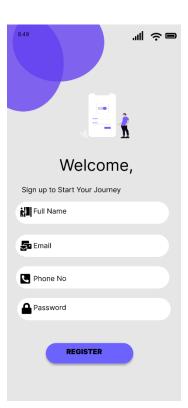
Pay for service



Edit profile User Profile aksharar79@gmail.com Akshara R 6282722360 ✓ Edit Save

Service parner

Registration

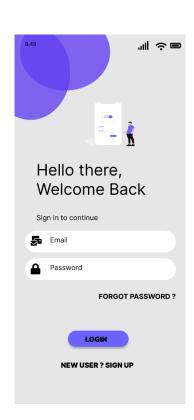


Login

0

Home Book Service Manage

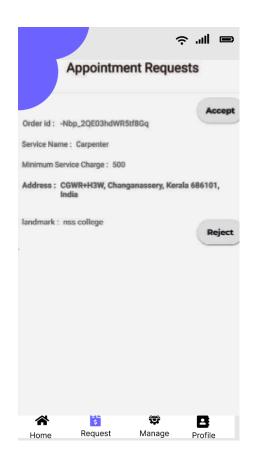
Profile



Home

ACTIVE Set active when you are available for a service Set inactive when you are not available for service Home Request Manage Profile

manage request



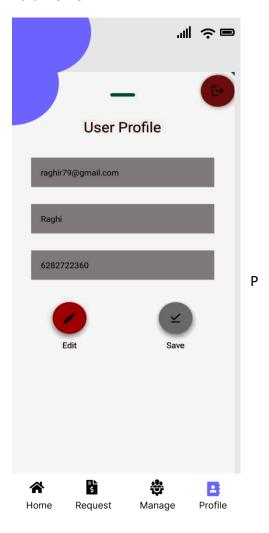
Manage Order



viewing location



Edit Profile



 $\label{link:muv6t3qko5QJRZa2/easify?node-id=0-1&t=UytBtasuZ47TKyNV-1} \begin{tabular}{l} Prototype link: $$\underline{https://www.figma.com/proto/JyOKtRmuv6t3qko5QJRZa2/easify?node-id=0-1&t=UytBtasuZ47TKyNV-1} \end{tabular}$

5.API

1.User Registration API

- URL: /api/v1/auth/register
- Method: POST
- Input:Email,Password,Name,phone number

Body

```
{
"email": "user@example.com",
"password": "password123",
"name": "John Doe",
"phone number:9654234587
}
```

• Output:

o Success:

```
{
   "message": "User registered successfully",
   "userId": "12345"
}
```

Failure:

```
{
  "error": "Email already exists"
}
```

2. User Login API

- URL: /api/v1/auth/login
- Method: POST
- Input:Email,Password

Body:

```
{
    "email":
    "user@example.com",
    "password": "password123"
}
```

```
Output:
          o Success:
               "message": "Login successful",
             Failure:
              {
    "error": "Invalid credentials"
3.Forgot Password API
Step 1: Request Password Reset
    Endpoint: /api/v1/auth/forgot-password
      Method: POST
      Headers:
          o Content-Type: application/json
Request Body:
 "email": "user@example.com"
Response:
     Success:
 "status": "success",
 "message": "Password reset link has been sent to your email address."
   • Failure:
```

{

{

}

"status": "error",

```
"message": "Email address not found in our system."
}
```

4. Fetch Available Services API

• URL: /api/v1/services

Method: GETInput:None

o Output: Success:

5. Search Services API

• URL: /api/v1/services/search

• Method: GET

• Input:Query parameter: q (search term)

• Body: None

• Output:

o Success:

```
{
    "results": [
        {
            "id": "3",
            "name": "Carpentry",
            "description": "Custom furniture and repairs"
        }
        }
}
```

```
Failure:{
    "error": "No matching services found"
```

6. Book Appointment API

- URL: /api/v1/appointments
- Method: POST
- Input:
 - o User token (JWT)
 - Service ID
 - Location and landmark
 - Appointment time
- Body:

```
{
  "serviceId": "2",
  "location": "123 Main Street",
  "landmark": "Near City Park",
  "appointmentTime": "2025-01-21T10:00:00Z"
}
```

Output:

Success:

{
 "message": "Appointment booked successfully",
 "appointmentId": "56789"
}

Failure:

{

```
"error": "Service provider unavailable at selected time" }
```

7.API for Setting Location

• **URL**: /api/v1/user/set-location

• **Method**: POST

• Input (Body):

```
{
  "latitude": 12.971598,
  "longitude": 77.594566,
  "address": "Electronic City,
  Bangalore",
  "landmark": "Near Tech Park"
}
```

• Response:

o Success:

```
{
    "status": "success",
    "message": "Location updated successfully."
}
```

o **Failure**:

```
{
    "error": "Location could not be updated. Please try again."
}
```

8.Initiate Payment

Endpoint: /api/v1/payment/initiate

- **Method**: POST
- **Description**: Initiates the payment process and generates a payment order.

Request Body:

```
"user_id": "12345",
  "service_id": "67890",
  "amount": 1000.00,
  "currency": "INR",
  "payment_method": "card" // options: 'card', 'wallet',
  "UPI'
}
```

```
Response:
```

```
• Success:

{
    "status": "success",
    "message": "Payment initiated successfully.",
    "order_id": "ORDER123456",
    "payment_gateway_url": "https://paymentgateway.com/pay?order_id=ORDER123456"
}
    • Failure:
{
    "status": "error",
    "message": "Failed to initiate payment. Please try again."
}
```

9.Cancel Appointment API

10. Edit Profile API

• URL: /api/v1/user/profile

• Method: PUT

• Input:

- User token (JWT)
- Updated email or phone number
- Body:

```
{
    "email":
    "newemail@example.com",
    "phone": "+1234567890"
}
```

• Output:

Success:

```
{
    "message": "Profile updated successfully"
}
```

o Failure:

```
{
"error": "Invalid input or email already in use"
}
```

11. Service Partner Registration API

- **URL**: /api/v1/partner/register
- Method: POST
- Input:Email,Phone number,Password,Name
- Body:

```
{
  "email":
  "partner@example.com",
  "password": "securepassword",
  "phone": "+1234567890",
  "name": "John Smith"
}
```

• Output:

```
Success:{
    "message": "Partner registered successfully",
    "partnerId": "12345"
```

```
}
    Failure:
    "error": "Email or phone number already exists"
}
```

12. Service Partner Login API

• **URL**: /api/v1/partner/login

Method: POST

- Input:
 - o Email
 - Password
- Body:

```
{
    "email":
    "partner@example.com",
    "password":
    "securepassword"
}
```

• Output:

```
    Success:

            "message": "Login successful", "token": "jwt_token_here"
            Failure:
            "error": "Invalid credentials"
            }
```

13.Manage Bookings API

- **URL**: /api/v1/partner/bookings
- **Method**: GET (fetch bookings), PUT (update status)
- Input:
 - o Partner token (JWT)
 - o Booking details: appointment ID, status (for PUT)
- **Body**:

```
{
    "appointmentId": "56789",
    "status": "Accepted" // Accepted, Rejected,
    Completed
}
```

Output

```
    Success (PUT):

            "message": "Booking status updated successfully"
            Failure:

                    "error": "Failed to update booking status"
                    }
```

14.View Customer Location API

- **URL**: /api/v1/partner/booking/{appointmentId}/location
- Method: GET
- Input:
 - o Partner token (JWT)
 - o Appointment ID (in URL)
- Body: None
- Output:
 - o Success:

```
"location": {
    "address": "123 Main Street",
    "landmark": "Near City Park",
    "latitude": 37.7749,
    "longitude": -122.4194
    },
    "googleMapsUrl": "https://www.google.com/maps/search/?api=1&query=37.7749,-
122.4194",
    "user": {
        "name": "Jane Doe",
        "phone": "+9876543210"
    }
}
```

```
Failure:{
    "error": "Booking not found or unauthorized"
```

15. Edit Partner Profile API

• **URL**: /api/v1/partner/profile

• **Method**: PUT

- Input:
 - o Partner token (JWT)
 - o Updated email, phone number, or name
- Body:

```
{
  "email":
  "newemail@example.com",
  "phone": "+1234567890",
  "name": "New Name"
}
```

• Output:

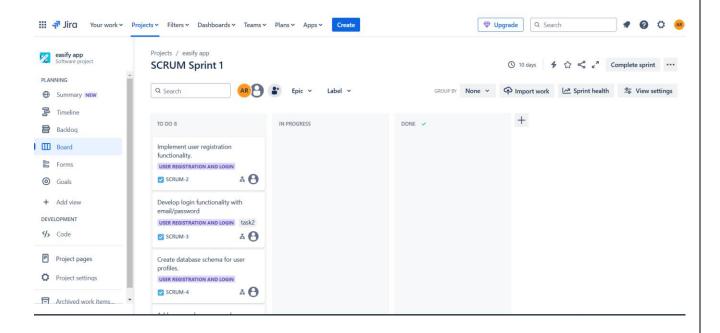
Success:

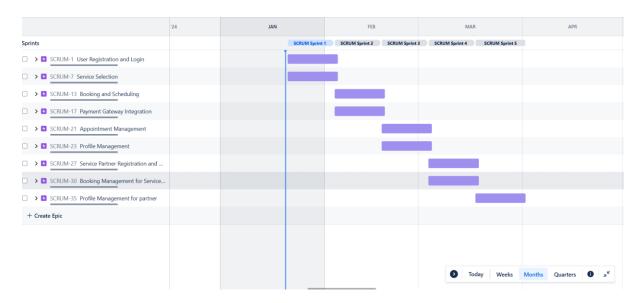
```
{
    "message": "Profile updated successfully"
}
```

o **Failure**:

```
{
    "error": "Invalid input or email already in use"
}
```

6.JIRA





7.GIT

The link of newly created Github repository where I can push the code

https://github.com/Akhara08/easifyapp.git

MILESTONE

(21-1-2025) To (4-2-2025)

- Demo the login functionality by accepting a username and password.
- Demo user registration and profile creation.
- Enable service selection from the list of services

(4-1-2025) to (18-2-2025)

- Demo booking and scheduling functionality with location input.
- We will demo the Integrattion of a payment gateway with dummy payment

(18-2-2025) to (4-3-2025)

- Demo the option to cancel appointments and update the status.
- We will demo the profile editing for phone number and email updates.

(4-3-2025) to (18-3-2025)

- Demo the login functionality by accepting a username and password for service partners.
- demo service partner registration and profile creation.
- Demo booking management, allowing partners to view, accept, or reject appointments.
- Demo the functionality to view the customer's location for accepted bookings.

(18-3-2025) to (25-3-2025)

• Demo the profile editing for service partners to update their phone number and email.