

# FIXLY

*" Convenience at Your Doorstep "*

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Group No.-13

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# Week - 4 : Summary Of Tasks

## 1. Customer and Provider CRUD API

### Tasks:

- Implement Customer CRUD endpoints (Create, Read, Update, Delete)
- Implement Provider CRUD endpoints (Create, Read, Update, Delete)
- Add input validation and error handling
- Integrate authentication and authorization if required
- Write unit tests for both Customer and Provider APIs
- Document Customer and Provider endpoints using Swagger or Postman

## 2. Booking API

### Tasks:

- Implement booking creation logic to link customer, provider, and service
- Implement booking status updates such as accept, reject, complete, and cancel
- Implement booking retrieval based on customer and provider
- Add validation and error handling for invalid booking inputs
- Write test cases to verify the booking flow
- Update API documentation with booking endpoints

## 3. Services Listing API

### Tasks:

- Implement APIs to add, edit, and delete services
- Implement API to fetch available services
- Add filters for category, price, and provider along with pagination
- Implement search functionality for services
- Write unit tests for service listing endpoints
- Document all service-related APIs

## **4. Review and Rating**

### **Tasks:**

- Implement API to add reviews and ratings for providers
- Implement API to fetch provider reviews and calculate average rating
- Add validation to prevent duplicate reviews for the same booking
- Write test cases for review and rating endpoints
- Document review and rating endpoints

## **5. Cloudinary Image Management**

### **Tasks:**

- Setup Cloudinary configuration in the backend
- Implement image upload endpoint for provider and service images
- Implement image delete and update functionality
- Store Cloudinary image URLs in the database
- Add validation for image size, type, and format
- Write test cases for image upload and delete APIs
- Document all image management endpoints

## **6. Common and Shared Tasks**

### **Tasks:**

- Configure environment variables for secrets and API keys
- Setup centralized error handler and standard API response structure
- Implement logging mechanism using tools like Winston or Morgan
- Perform integration testing across all modules
- Deploy the backend to a staging environment (Render, Vercel, or AWS)

# Roadblocks

- **Cloudinary Configuration Challenges :**  
Faced issues in connecting the Cloudinary SDK due to incorrect environment variable setup and authentication token mismatch.
- **API Dependency Conflicts :**  
Some APIs were dependent on others (e.g., Booking API required complete Customer and Provider modules), which led to delays in testing and parallel development.
- **Validation and Error Handling Complexity :**  
Additional time was required to handle complex validation rules and uniform error response formatting across all endpoints.
- **Authentication Middleware Interference :**  
Initial integration of authentication middleware caused restricted access to certain endpoints during testing. Adjustments were needed to separate public and protected routes.

# Upcoming Tasks

- Customer Frontend Integration
- Provider Frontend Integration
- Admin Dashboard Integration
- Payment Integration & Commission Calculation
- Responsive Design Implementation