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# System Design Document

for

## MindEase

Online Counselling Platform for Kids, Teens & Adults

Prepared by

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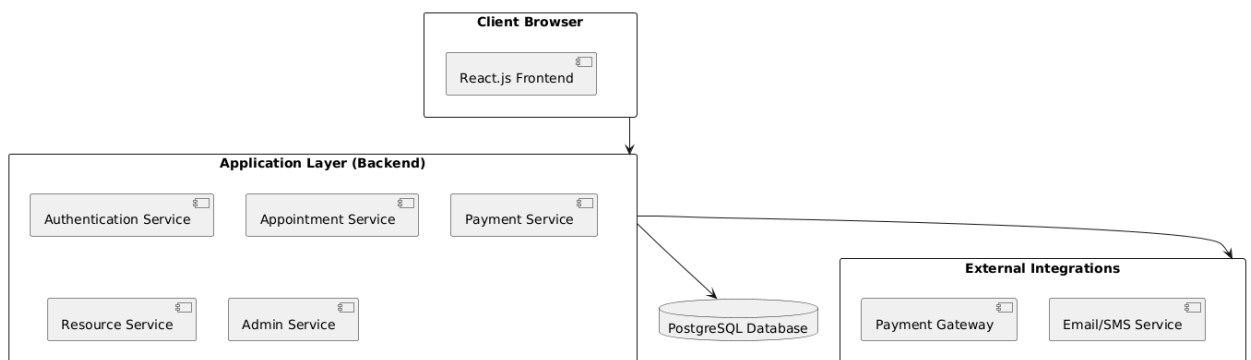
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# 1. Architecture Diagram

A 3-tier architecture:

- **Presentation Layer (Frontend)** → React.js + TailwindCSS
- **Application Layer (Backend API)** → Django REST Framework (or Node.js Express if chosen)
- **Data Layer (Database)** → PostgreSQL
- External Integrations: Payment Gateway (Razorpay/Stripe), Email/SMS (SendGrid/Twilio)



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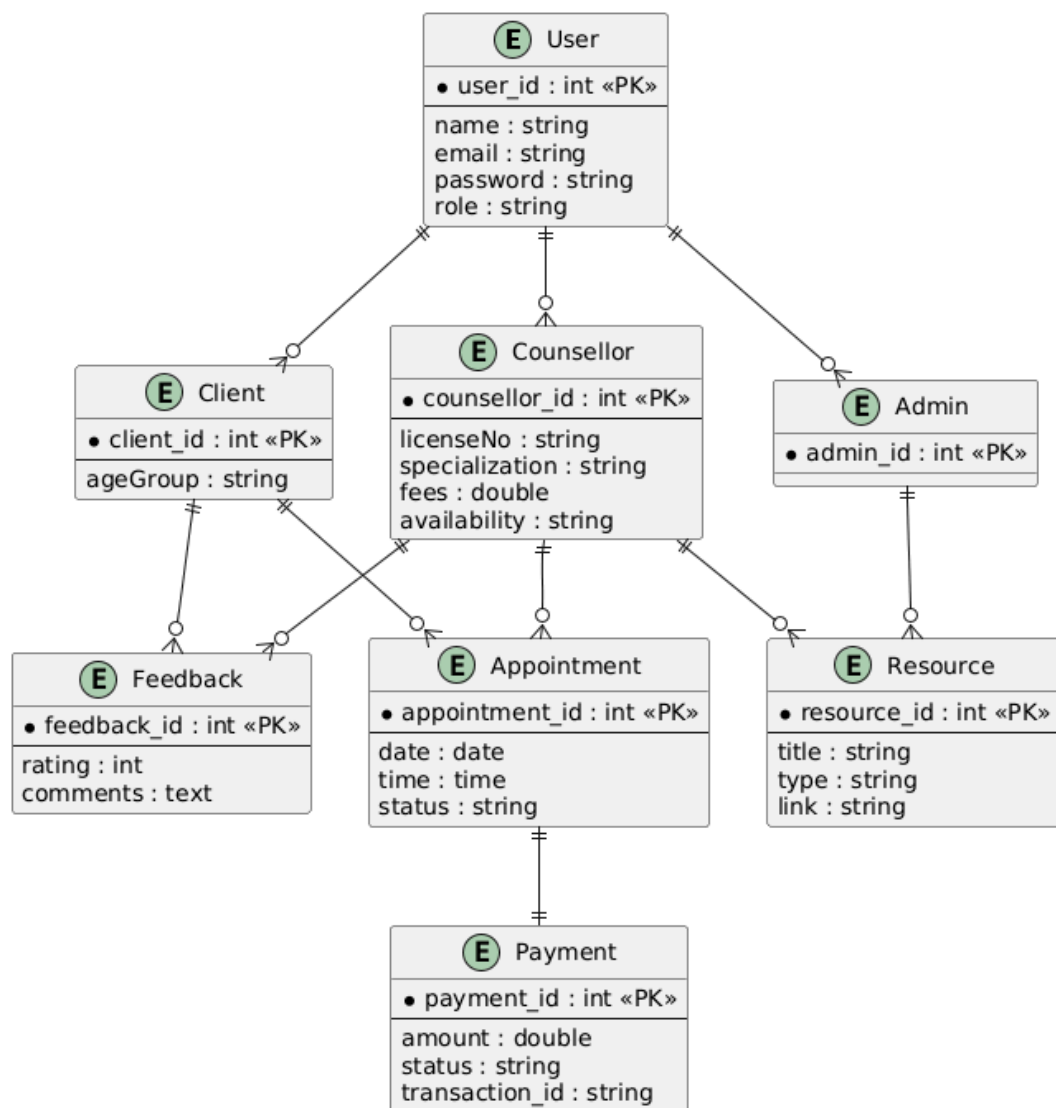
## 2. Database Schema (ER Diagram)

Key Entities:

- **User** (abstract) → Client, Counsellor, Admin
- **Appointment** (date, time, status, client\_id, counsellor\_id)
- **Payment** (id, appointment\_id, amount, status, transaction\_id)
- **Resource** (id, title, type, uploaded\_by, approved\_by)
- **Feedback** (id, client\_id, counsellor\_id, rating, comments)

## Relationships:

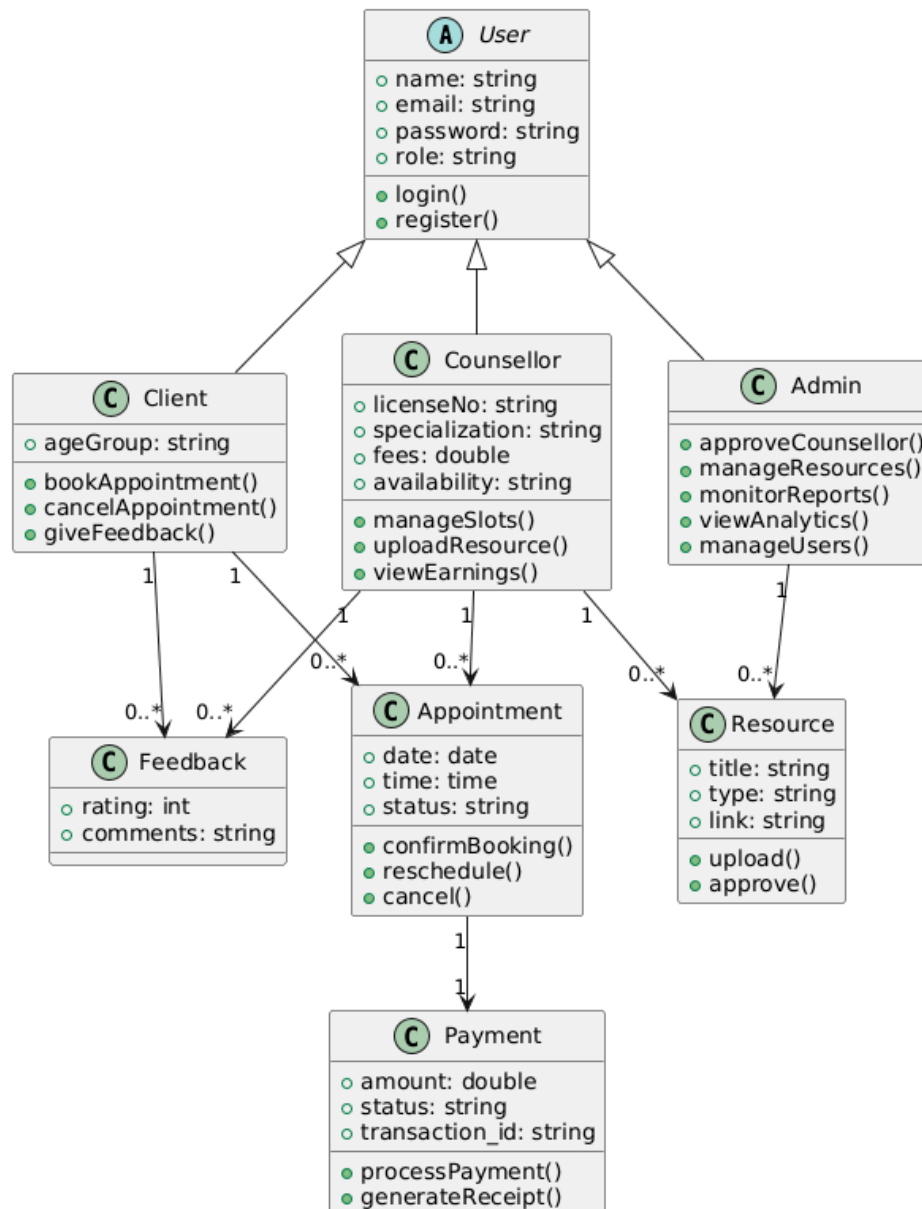
- One Client → Many Appointments
- One Counsellor → Many Appointments
- One Appointment → One Payment
- One Counsellor → Many Resources
- One Admin → Approves Many Counsellors/Resources



### 3. Class / Component Diagrams

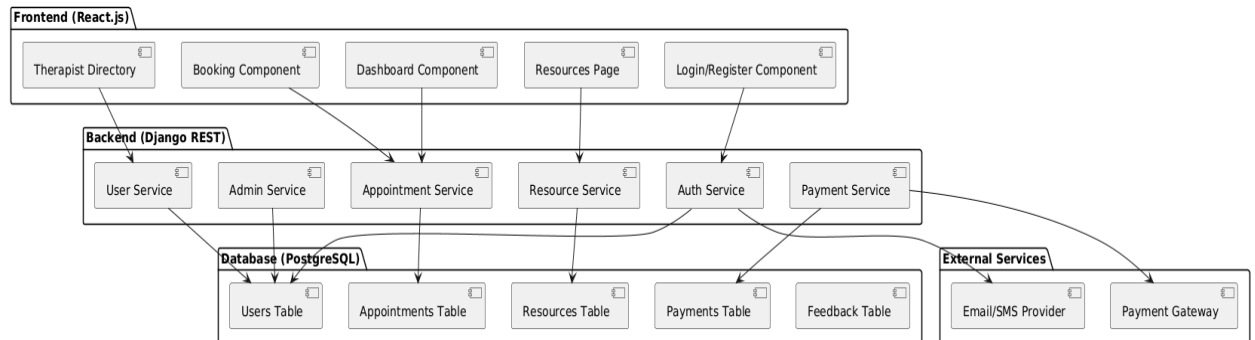
Class Diagram:

- Abstract **User** with attributes (name, email, password, role).
- Subclasses: **Client (ageGroup)**, **Counsellor (license, specialization, fees, availability)**, **Admin**.
- Appointment, Payment, Resource, Feedback classes linked accordingly.



Component Diagram:

- **Frontend Component:** Authentication, Booking, Payments, Dashboard, Resources.
- **Backend Component:** Auth Service, Appointment Service, Payment Service, Resource Service, Admin Service.
- **External:** Payment Gateway, Email/SMS provider.



## 4. REST API Contracts (Swagger/OpenAPI style)

### REST API Contracts

#### Overview

The REST API follows **OpenAPI 3.0 specification** and defines endpoints for Authentication, Counsellor Management, Appointments, Payments, Resources, Feedback, and Admin functionalities.

#### Selected Endpoints

- ♦ Authentication
  - **POST /auth/register** → Register a new user

## MindEase API 1.8.0 QA 3.0

REST API for the MindEase Online Counselling Platform

Servers  
http://localhost:8000/api - Local development server

### default

**POST** /auth/register Register a new user

Parameters Try it out

No parameters

Request body required application/json

Example Value | Schema

```
{  "name": "string",  "email": "string",  "password": "string",  "role": "Client"}
```

Responses

Code	Description	Links
201	User registered successfully	No links

- **POST /auth/login** → Login and receive JWT

## MindEase API 1.8.0 QA 3.0

REST API for the MindEase Online Counselling Platform

Servers  
http://localhost:8000/api - Local development server

### default

**POST** /auth/register Register a new user

**POST** /auth/login Login and get JWT token

Parameters Try it out

No parameters

Request body required application/json

Example Value | Schema

```
{  "email": "string",  "password": "string"}
```

Responses

Code	Description	Links
200	Successful login, returns token	No links

## ◆ Counsellors

- GET /counsellors → List counsellors

Servers  
http://localhost:8000/api - Local development server

default ^

POST /auth/register Register a new user

POST /auth/login Login and get JWT token

GET /counsellors List all counsellors

Parameters Try it out

Name	Description
specialization	specialization
fees	fees

Responses

Code	Description	Links
200	List of counsellors	No links

- POST /counsellors → Register counsellor

Servers  
http://localhost:8000/api - Local development server

default ^

POST /auth/register Register a new user

POST /auth/login Login and get JWT token

GET /counsellors List all counsellors

POST /counsellors Register a counsellor (with license verification)

Parameters Try it out

No parameters

Request body required application/json

Example Value Schema

```
{  "license": "string",  "specialization": "string",  "fees": 0,  "availability": "string"}
```

Responses

Code	Description	Links
201	Counsellor registered	No links



## ◆ Appointments

- **POST /appointments** → Book appointment

**POST** /appointments Book a new appointment

Parameters Try it out

No parameters

Request body required application/json

Example Value Schema

```
{
  "client_id": 0,
  "counsellor_id": 0,
  "date": "2025-10-10",
  "time": "16:39:59.636Z"
}
```

Responses

Code	Description	Links
201	Appointment booked	No links

- **GET /appointments/{id}** → Get appointment details

**GET** /appointments Get all appointments

Parameters Try it out

No parameters

Responses

Code	Description	Links
200	List of appointments	No links

- **PUT /appointments/{id}** → Reschedule appointment

**PUT** /appointments/{id} Update (reschedule) an appointment

Parameters Try it out

Name	Description
<b>id</b> <small>* required</small>	
Integer (path)	id

Responses

Code	Description	Links
200	Appointment updated	No links

- DELETE /appointments/{id} → Cancel appointment

DELETE /appointments/{id} Cancel an appointment

Try it out

Parameters

Name	Description
id <span>required</span> Integer (path)	<input type="text" value="id"/>

Responses

Code	Description	Links
200	Appointment cancelled	No links

## ♦ Payments

- POST /payments → Create payment for appointment

POST /payments Create payment for appointment

Try it out

Parameters

No parameters

Request body required

application/json

Example Value | Schema

```
{
  "appointment_id": 0,
  "amount": 0
}
```

Responses

Code	Description	Links
201	Payment created, returns payment link	No links

- GET /payments/{id} → Verify payment status

GET /payments List all payments

Try it out

Parameters

No parameters

Responses

Code	Description	Links
200	List of payments	No links

- ◆ Resources

- GET /resources → List resources

GET /resources List resources (articles, videos, PDFs)

Parameters Try it out

Name	Description
type	<input type="text" value="type"/>
string	
(query)	

Responses

Code	Description	Links
200	List of resources	No links

- POST /resources → Upload resource (counsellor)

POST /resources Upload resource (counsellor)

Parameters Try it out

No parameters

Request body <sup>required</sup> application/json

Example Value | Schema

```
{
  "title": "string",
  "type": "Article",
  "link": "string"
}
```

Responses

Code	Description	Links
201	Resource uploaded	No links

- PUT /resources/{id}/approve → Approve resource (admin)

PUT /resources/{id}/approve Approve a resource (admin only)

Parameters Try it out

Name	Description
id <sup>required</sup>	<input type="text" value="id"/>
integer	
(path)	

Responses

Code	Description	Links
200	Resource approved	No links

## ◆ Feedback

- **POST /feedback** → Submit feedback

**POST** /feedback Submit feedback for counsellor

Parameters Try it out

No parameters

Request body **required** application/json

Example Value | Schema

```
{
  "client_id": 0,
  "counsellor_id": 0,
  "rating": 0,
  "comments": "string"
}
```

Responses

Code	Description	Links
201	Feedback submitted	No links

- **GET /feedback** → Get feedback list

**GET** /feedback Get all feedback

Parameters Try it out

No parameters

Responses

Code	Description	Links
200	List of feedback	No links

## ◆ Admin

- **PUT /admin/approveCounsellor/{id}** → Approve counsellor

**PUT** /admin/approveCounsellor/{id} Approve counsellor (admin only)

Parameters Try it out

Name	Description
<b>id</b> <b>* required</b> Integer (path)	<input type="text" value="id"/>

Responses

Code	Description	Links
200	Counsellor approved	No links

- GET /admin/manageUsers → List users

GET /admin/manageUsers List all users		
Parameters		
No parameters		
Responses		
Code	Description	Links
200	List of users	No links

- DELETE /admin/manageUsers?id= → Remove user

DELETE

/admin/manageUsers Remove a user

Parameters

Try it out

Name	Description
id	id
Integer	
(query)	

Responses

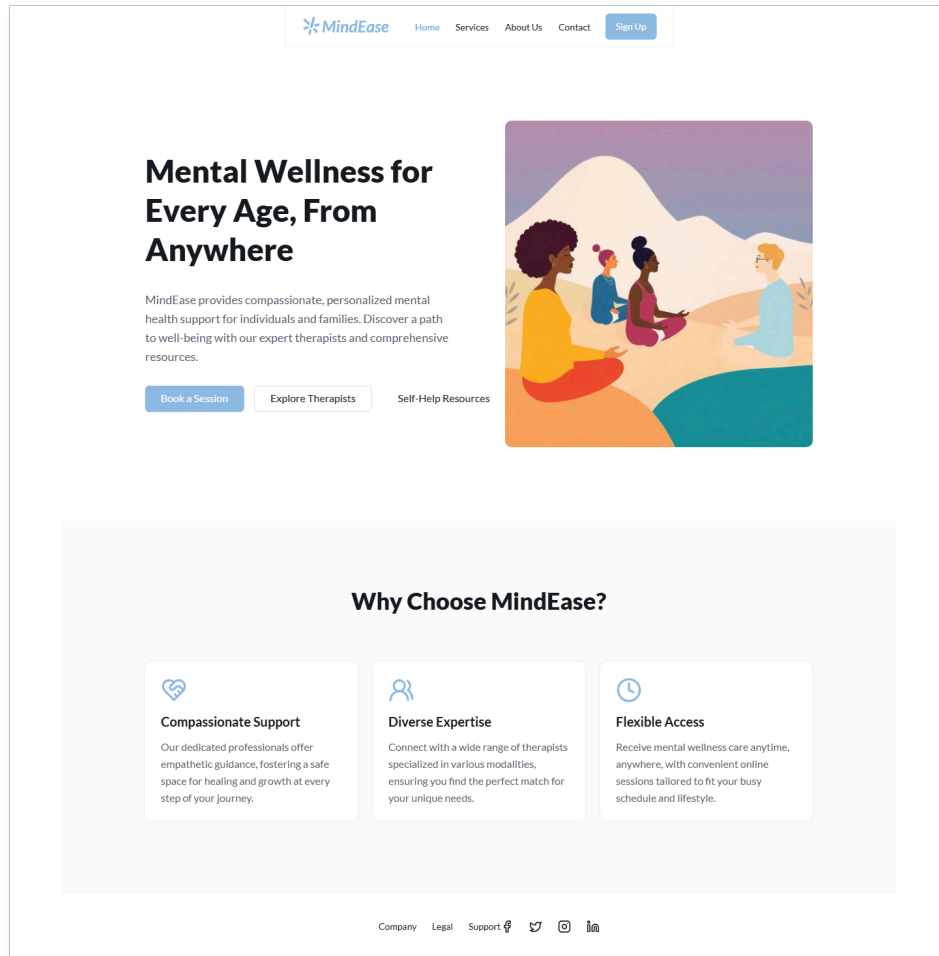
Code	Description	Links
200	User removed	No links

## Notes

- Screenshots were taken directly from **Swagger Editor** after loading the OpenAPI YAML.

## 5. Wireframes / UI Mockups (Final Draft)


- Homepage:



- **Login/Register:**

The screenshot shows the MindEase registration form titled "Register for SkillBridge". The form includes the following fields and elements:


- First Name:** Text input field with the value "John".
- Last Name:** Text input field with the value "Doe".
- Email:** Text input field with the value "you@example.com".
- Password:** Password input field with masked characters "\*\*\*\*\*".
- Confirm Password:** Password input field with masked characters "\*\*\*\*\*".
- Account Type:** Dropdown menu with "Client" selected.
- Age Group:** Dropdown menu with "Select age group" selected.
- Agreement:** A checkbox labeled "I agree to the Terms and Privacy Policy".
- Register Button:** A blue button labeled "Register".
- Login Link:** A link labeled "Already have an account? Log In" below the Register button.



Specialization

Price Range

### Available Therapists




**Dr. Dipti Yadav**

[Anxiety](#)
[Stress Management](#)
[CBT](#)

1800/session

Book Now




**Dr. Sahebbeet Kar**

[Depression](#)
[Trauma](#)

[Crisis Counseling](#)

1650/session

Book Now




**Dr. Lizu Kaur**

[Relationship Counseling](#)
[Family Therapy](#)

1200/session

Book Now




**Nidhi Rane**

[CBT & Adolescent Therapy](#)

[Parenting Support](#)

1500/session

Book Now




**Aditi Shah**

[Addiction Recovery](#)
[Group Therapy](#)

1900/session

Book Now



**Anis Syed**




[Eating Disorders](#)
[Self-Esteem](#)

1700/session

Book Now

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Privacy Policy
Terms of Service
Help






- **Booking Page:**

- **Self help resources:**



- **Client Dashboard:**




Dashboard

Appointments

Profile

Settings



Dr. Shefali Batra

Date:

October 26, 2024

Time:

10:00 AM

Service:

Cognitive Behavioral Therapy


Location:

Online Session

Status:

Confirmed

Cancel Appointment



Anis Syed

Date:

October 27, 2024

Time:

02:30 PM

Service:

Mindfulness Session


Location:

Online Session

Status:

Confirmed

Cancel Appointment



Dr. Pooja Sharma

Date:

November 01, 2024

Time:

09:00 AM

Service:

Couples Counseling

Location:

Online Session

Status:

Confirmed

Cancel Appointment


Today's Overview

Appointments Today

1

Your confirmed appointments for today.

Past Appointments



Dr. Dipati Yadav

Date:

September 15, 2024

Time:

03:00 PM

Service:


Stress Management Workshop

Location:

Online Session

Status:

Completed



Dr. Makarand Sakunke

Date:

September 10, 2024

Time:

11:00 AM

Service:


Individual Therapy

Location:

Online Session

Status:

Completed



Anis Syed

Date:

August 28, 2024

Time:

04:00 PM

Service:

Mindfulness Session


Location:

Online Session

Status:

Cancelled

- **Counsellor Dashboard:**




My Profile

Manage Slots

My Appointments

Earnings Summary

Search client, appointment or slot



Full Name

Dr. Shefali Batra

Email Address

shefali@batraexample.com

Phone Number

+91 7864384987

Bio

Dedicated and empathetic counsellor with 15 years of experience in individual, couples, and family therapy. Specializing in cognitive-behavioral therapy (CBT) and mindfulness-based approaches to help clients achieve emotional well-being and personal growth. Passionate about fostering a supportive and non-judgmental environment.

Edit Personal Info

Professional Details

License Number

LIC-987654

Issuing Body

State Board of Counseling

License Expiry

2025-12-31

Specializations

Anxiety

Depression

Relationship Counseling

Grief Support

Stress Management

Edit Professional Details

Fees & Standard Availability

Hourly Rate

1500/hour

Package Deals

5 sessions for 6500

10 sessions for 12000

Default Working Days

Monday - Friday

Default Working Hours

9:00 AM - 5:00 PM

Adjust Fees & Availability

Settings

Help

15

- Admin Dashboard:

