

Project Report On



TrekHub

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1. Introduction:

1.1 Document Purpose:

This document communicates the business requirements and scope for developing TrekHub System. The scope of this document is to define the functional and non-functional requirements, business rules and other constraints requirements.

1.2 Project Background:

Currently, there is no computerized system available under a single umbrella that provides services for trekking bookings. In current situation peoples are searching for centralize platform to solve their trekking related issues like lack of information about trekking destination, best routes to reach, transportation, food, stay, local guidance, language barrier, health and safety problems. There are no facilities is present to tackle all these problems in one place.

1.3 Aim & Objectives:

The main objective of this project is to design a website that will help trekkers from all over India plan their trekking events and provide services suitable for individuals seeking for adventures, thrilling, and memorable experiences. This website will help trekkers to find suitable trekking events with appropriate packages so that trekkers can easily plan a trip with a trekking guide.

2. Business Requirements Overview:

- The administrator has the right to approve and modify the packages.
- The administrator can manage guide information.
- Admin can plan new packages.
- Trekkers can search for packages by selecting dates and locations.
- Trekkers can book their events.

3. Functional Requirements Overview:

TrekHub System consists of three modules described as below.

1. Admin Module
2. Guide Module
3. Trekkers Module

3.1 Admin Module

- TrekHub System should provide all authority to admin how to handle the system.
 - The administrator can manage guide and trekkers authorization.
 - Admin can create packages as well as modify the packages.
 - Admin can track records of completed as well as scheduled events.
 - Admin can track revenue details.
 - Admin can plan events.
 - Admin can see transaction details.
-

3.2 Guide Module

- Guide can see scheduled events.
- Guide can login to his account.
- Guide can see his assign events in his login.
- Guide can see information related to events.

3.3 Trekkers Module

- Trekker can see all schedule events.
- Trekker can able to filter the event according to requirement.
- Trekker can register and login to his own account.
- Trekker can book events after login .
- Trekker can pay online.
- Trekker can give Feedback.

4. Non-Functional Requirement:

- The website should use professional design, look and feel and color scheme.
 - Users will have no limitations for accessing the application through Internet. The portal being an internet application, it is difficult specify exact number of visitor or users. Hence we will target the system to support between 5 and 10 million users on launch of phase 1.
 - Being a public website, the site must follow general usability guidelines for menus, navigation, colors, links and other actions provided on the screens.
 - The system should be designed in such a manner that user will be able to complete tasks in minimum number of steps.
-

5. Use-Case Diagram

5.1 Admin:

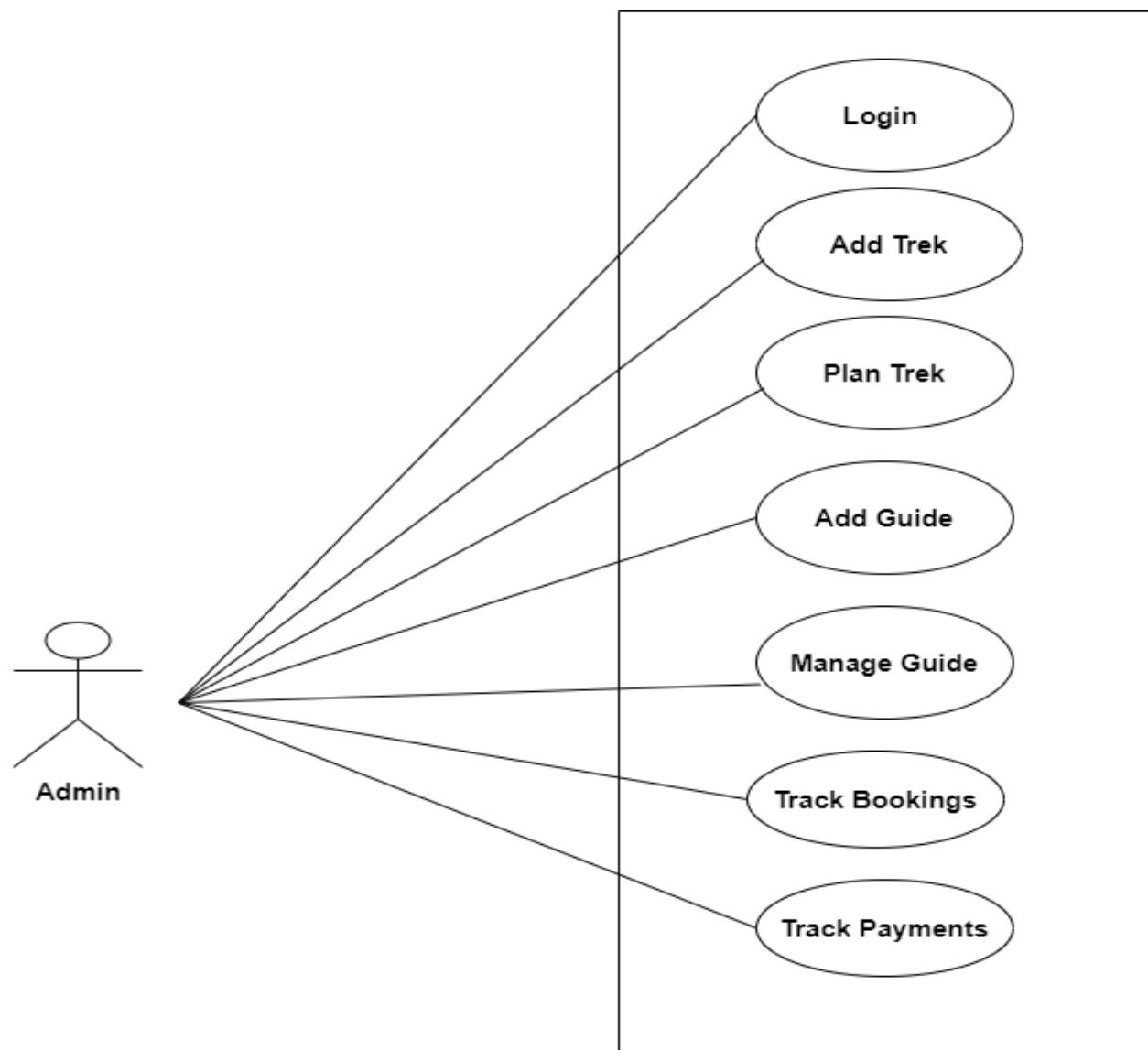


Fig. Use-Case Diagram for Admin

5.2 Trekker:

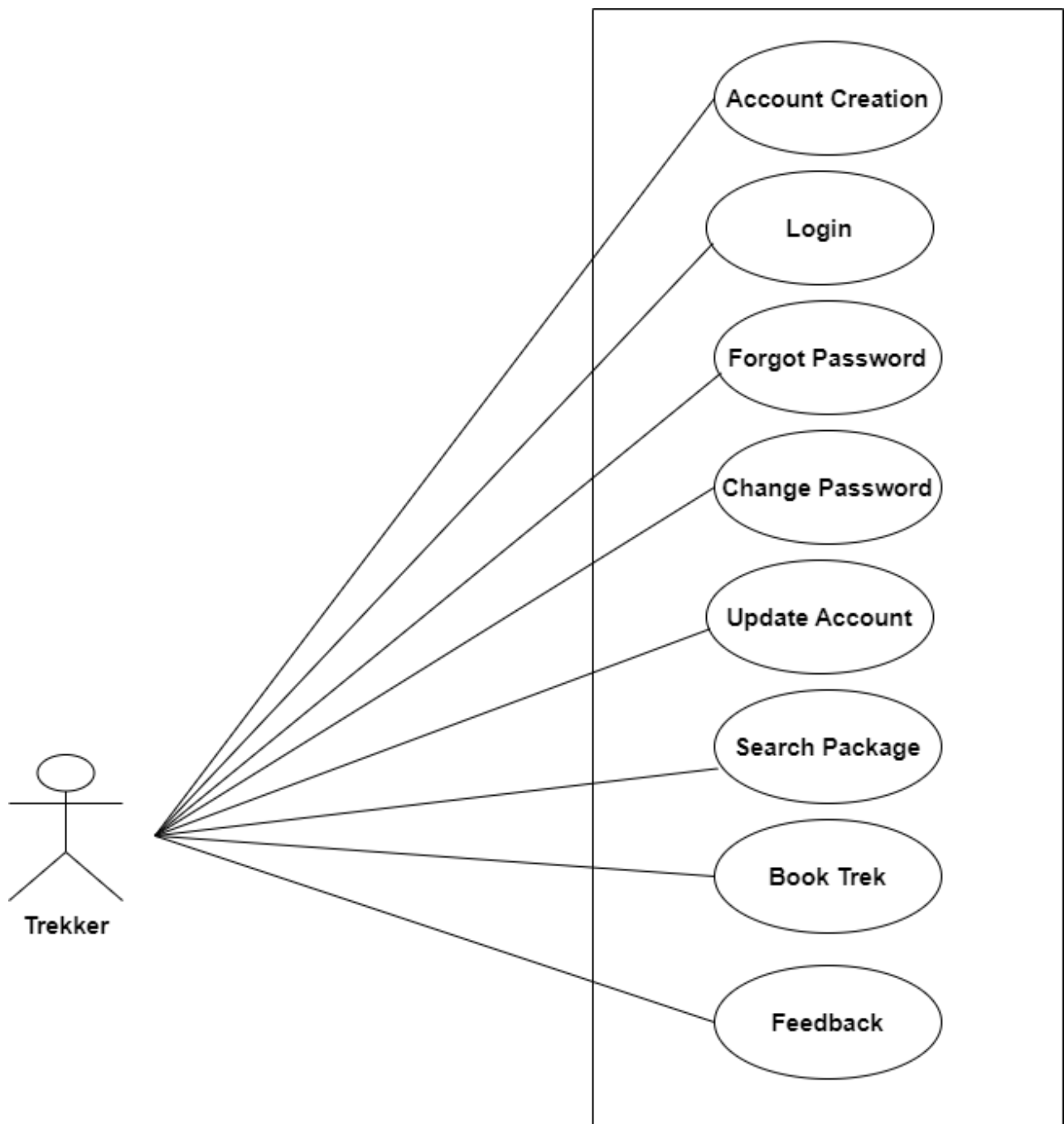


Fig. Use-Case Diagram for Trekker

5.3 Guide:

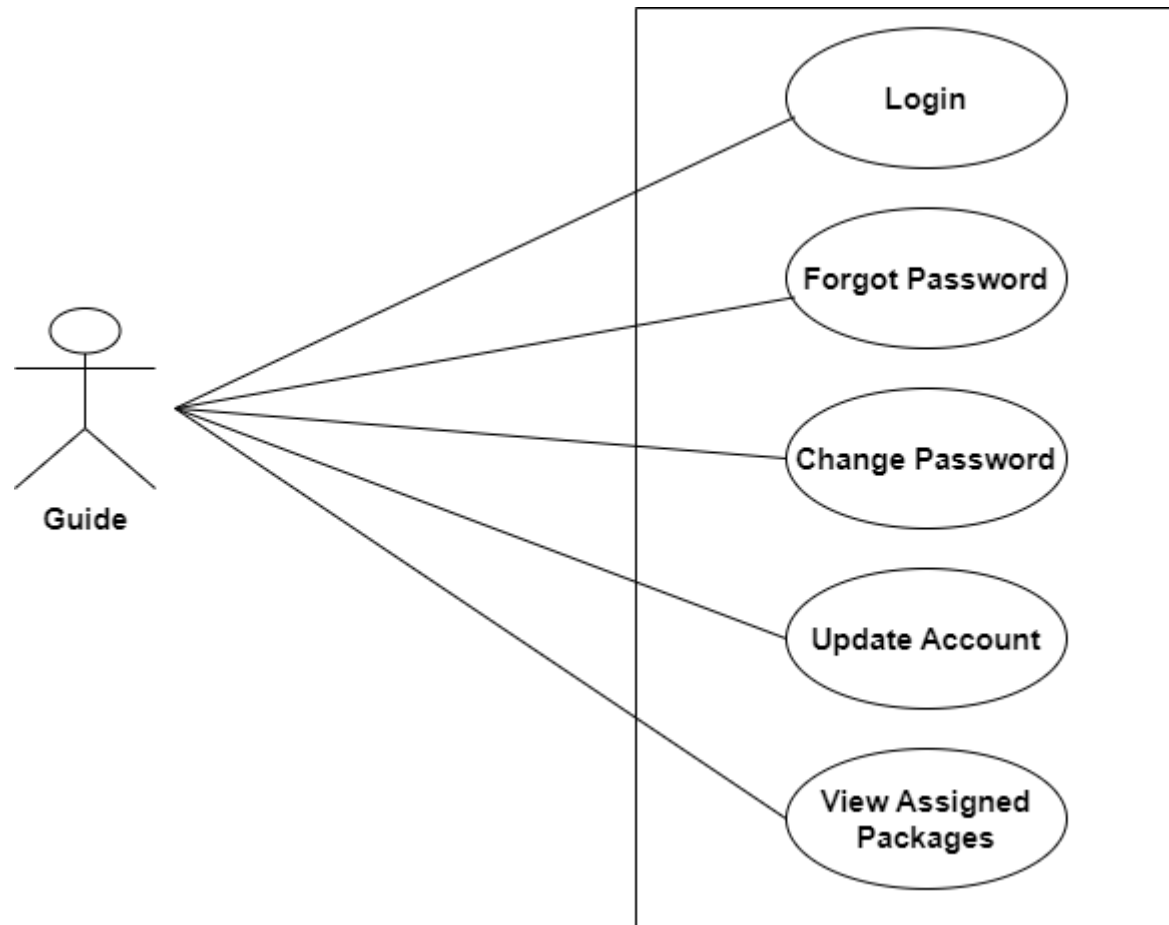


Fig. Use-Case Diagram for Guide

6. Database Design:

1] roles table

roles					
Field	Type	Null	Key	Default	Extra
role_id	int	No	PRI	NULL	
role_name	varchar(15)	Yes		NULL	

2] users table

users					
Field	Type	Null	Key	Default	Extra
user_id	int	NO	PRI	NULL	auto_increament
fname	varchar(20)	NO		NULL	
lname	varchar(20)	NO		NULL	
email	varchar(45)	NO		NULL	
contact	varchar(15)	NO		NULL	
adharno	varchar(45)	YES		NULL	
gender	varchar(10)	YES		NULL	
addressline	varchar(200)	YES		NULL	
pincode	int	YES		NULL	
user_login_id	int	YES	MUL	NULL	

3] login table

login					
Field	Type	Null	Key	Default	Extra
login_id	int	NO	PRI	NULL	auto_increament
uid	varchar(45)	NO		NULL	
pwd	varchar(45)	NO		NULL	
role_id	int	YES	MUL	NULL	

4] trekstable

treks					
Field	Type	Null	Key	Default	Extra
trek_id	int		PRI		auto_increment
trek_name	varchar(45)				
duration	varchar(45)				
capacity	int				
description	longtext				
location	varchar(45)				
level	varchar(45)				

5] plantrekstable

plantreks					
Field	Type	Null	Key	Default	Extra
plantreks_id	int	NO	PRI	NULL	auto_increment
start_date	date	NO		NULL	
price	decimal(9,2)	NO		NULL	
Avail seats	int	NO		NULL	
last_date_apply	date	NO		NULL	
trek_id	int	NO	MUL	NULL	
guide_id	int	NO	MUL	NULL	
status	varchar(45)	NO		NULL	

6] trekimages table

trekimages					
Field	Type	Null	Key	Default	Extra
trek_image_id	int	NO	PRI	NULL	auto_increment
trek_image	longblob	YES		NULL	
plantreks_id	int	YES	MUL	NULL	
trek_id	int	YES	MUL	NULL	

7] trekbooking table

trekbooking					
Field	Type	Null	Key	Default	Extra
booking_id	int	NO	PRI	NULL	auto_increament
booking_date	date	YES		NULL	
trekker_id	int	YES	MUL	NULL	
plantrek_id	int	YES	MUL	NULL	
members	int	YES		NULL	
amount	decimal(9,2)	YES		NULL	

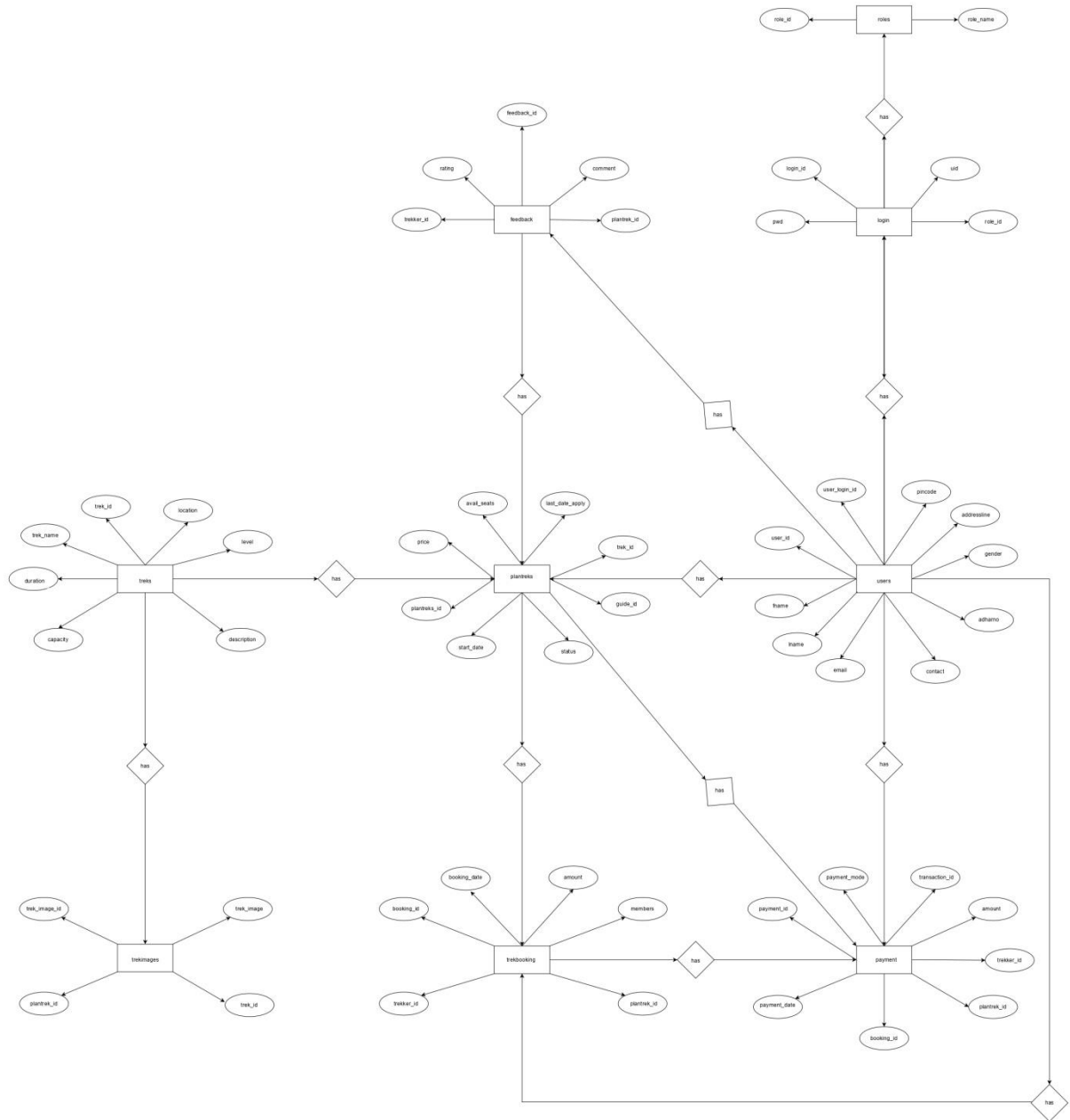
8] payment table

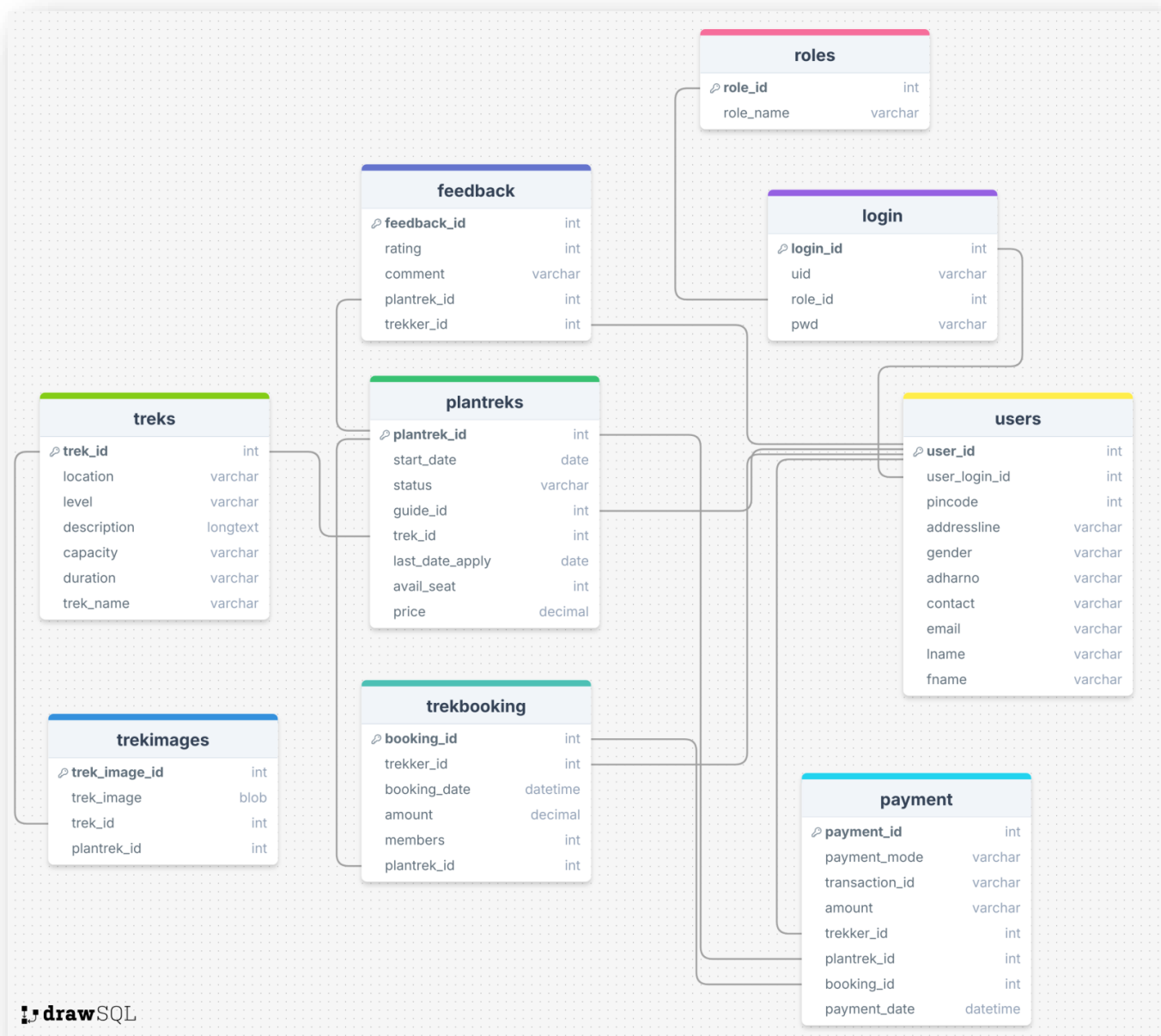
payment					
Field	Type	Null	Key	Default	Extra
payment_id	int	NO	PRI	NULL	auto_increament
payment_mode	varchar(45)	YES		NULL	
transaction_id	varchar(45)	YES		NULL	
amount	varchar(45)	YES		NULL	
payment_date	date	YES		NULL	
booking_id	int	YES	MUL	NULL	
plantrek_id	int	YES	MUL	NULL	
trekker_id	int	YES	MUL	NULL	

9] feedback table

feedback					
Field	Type	Null	Key	Default	Extra
feedback_id	int	NO	PRI	NULL	auto_increament
rating	int	YES		NULL	
comment	varchar(500)	YES		NULL	
trekker_id	int	YES	MUL	NULL	
plantrek_id	int	YES	MUL	NULL	

7. ER-Diagram:



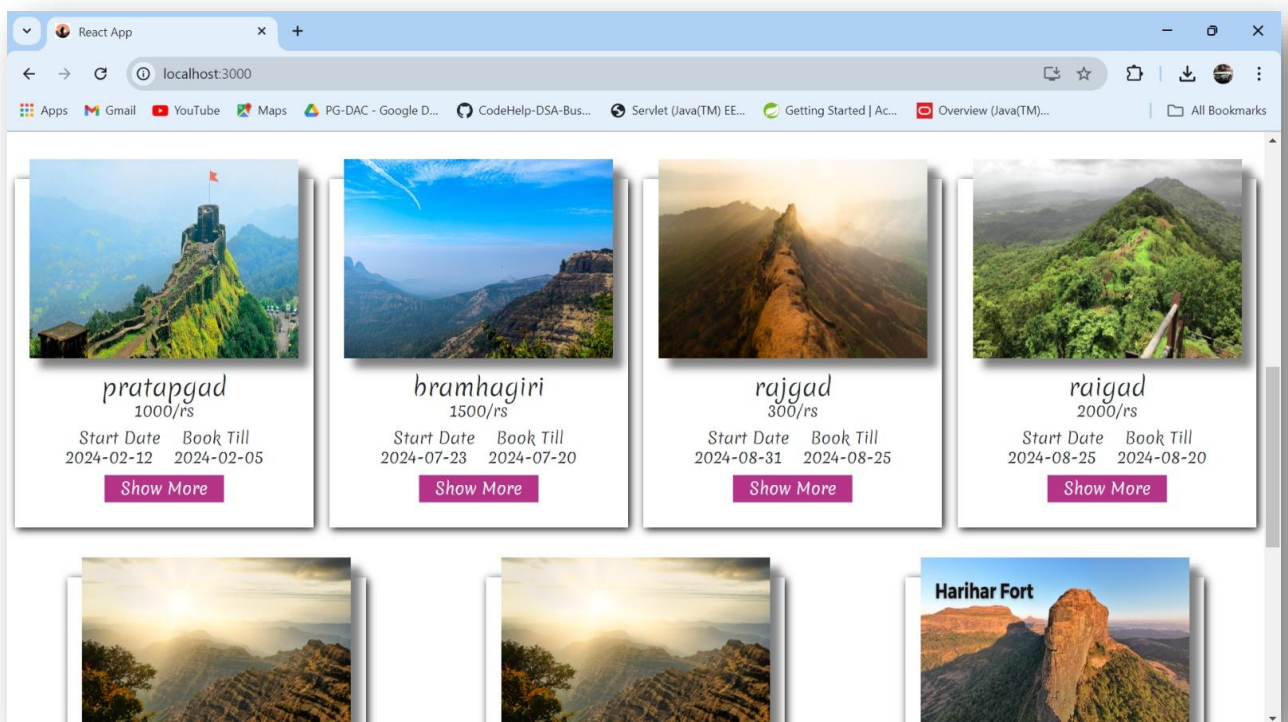
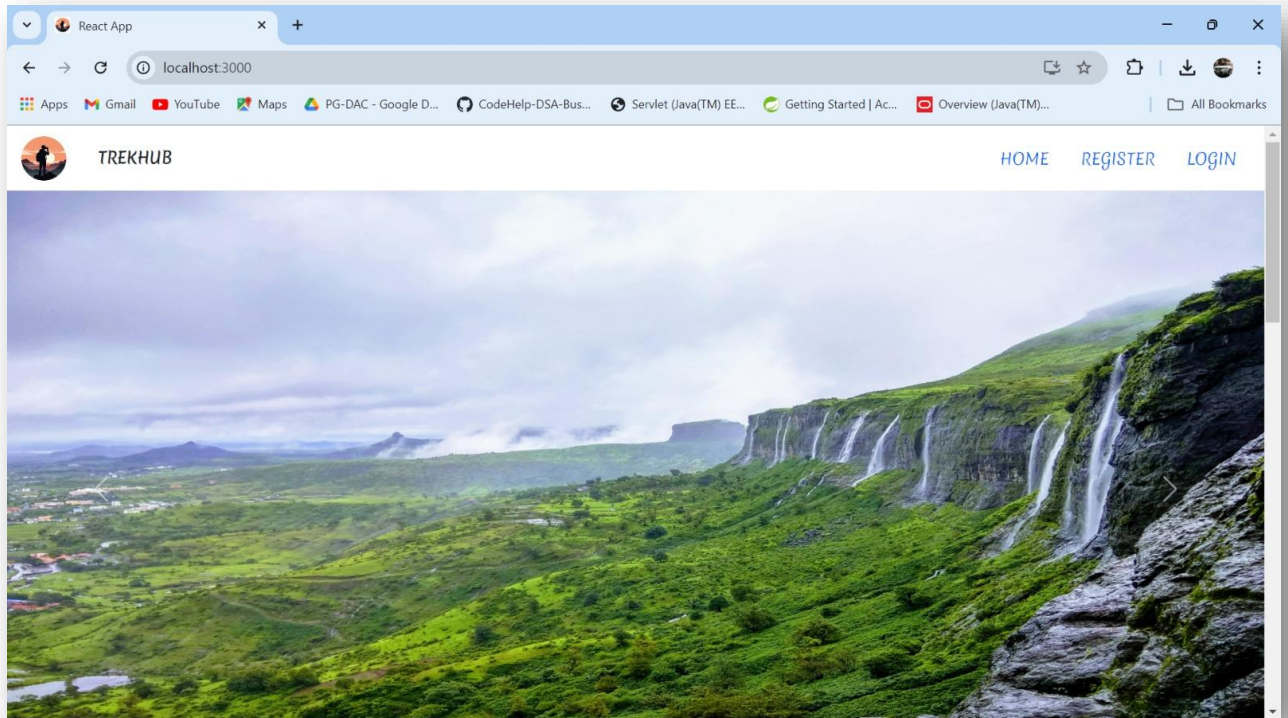


Flow Diagram

8. Snapshots:

8.1 Home Page:

Following snapshot shows the Home page for TrekHub before Login.



React App

localhost:3000/registration

TREKHUB

HOME REGISTER LOGIN

Registration Form

userid

Password

firstname

Lastname

Email

contact

adharno

select your gender

address line 1

pincode

This page contains following controls

- Home
- Registration
- Login Button

8.2 Login Page

React App

localhost:3000/login

TREKHUB

HOME REGISTER LOGIN

Login Form

User ID

Enter User ID

Password

Enter Password

Login

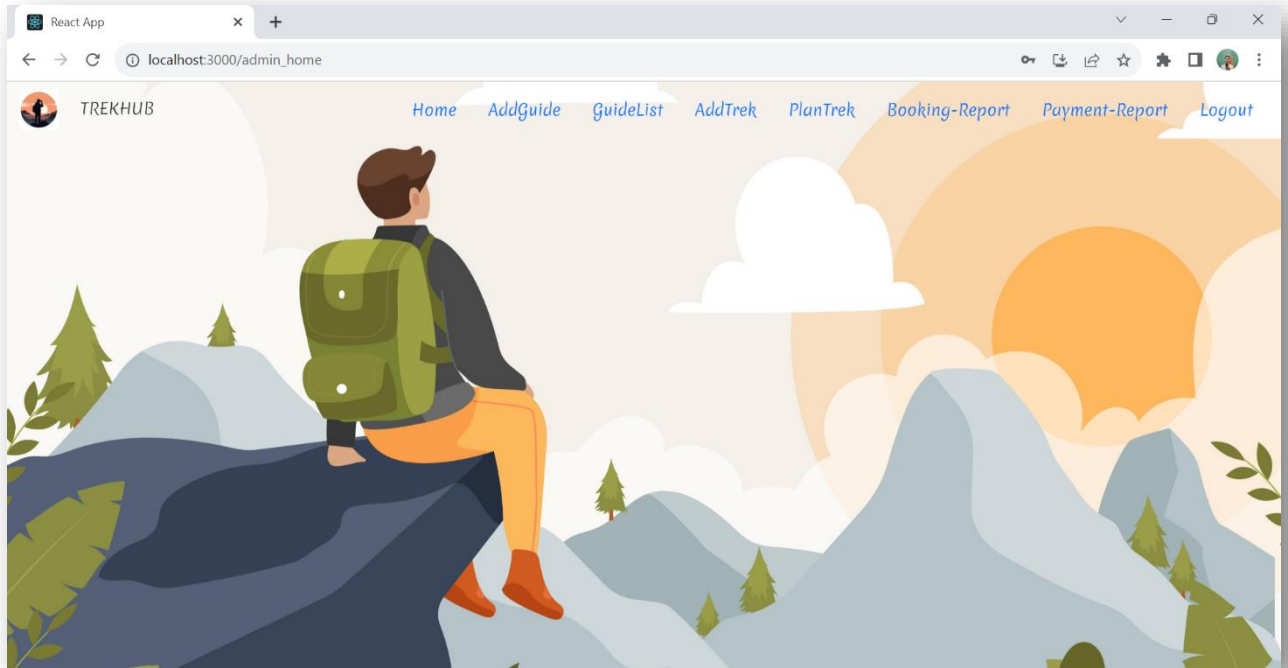
Reset

Forget Password

Home

8.4 Admin Home Page

8.4.1 Admin Home Page



8.4.2 Add Guide:

A screenshot of a web browser displaying the Registration Form. The browser's address bar shows 'localhost:3000/registration'. The form is titled 'Registration Form' and is set against a background illustration of a hiker with a backpack standing in a mountainous landscape. The form fields and their current values or error messages are as follows:

- Username:** mayur (Error: Username Should be between 6 - 15 characters no special symbol allowed)
- Password:** (Error: Password Should be more than 5 characters and having number and special symbol(Abc@123))
- Firstname:** (Empty)
- Lastname:** (Empty)
- Email:** (Empty)
- Contact:** (Empty)
- Adhar no:** (Empty)
- Gender:** select your gender (Dropdown menu)
- Address line 1:** (Empty)

8.4.3 Add Trek:

The screenshot shows the 'ADD NEW TREK' form in the TREKHUB application. The form is displayed on a background illustration of a person sitting on a mountain peak, looking at a sunset. The form fields are:

-
-
-
-
-
-

Below the form fields is a blue button labeled "Click here to Add TREK". To the right of the form, there is a file upload section with a "Choose File" button, a "No file chosen" status, and a blue button labeled "Click here to Add Trek Images". The navigation bar at the top includes links for Home, AddGuide, GuideList, AddTrek, PlanTrek, Booking-Report, Payment-Report, and Logout.

8.4.4 Plan Trek:

The screenshot shows the 'Plan Trek' form in the TREKHUB application. The form is displayed on a background illustration of a person sitting on a mountain peak, looking at a sunset. The form fields are:

-
-
-
-
-
-

The navigation bar at the top includes links for Home, AddGuide, GuideList, AddTrek, PlanTrek, Booking-Report, Payment-Report, and Logout.

8.4.5 Trek Bookings:

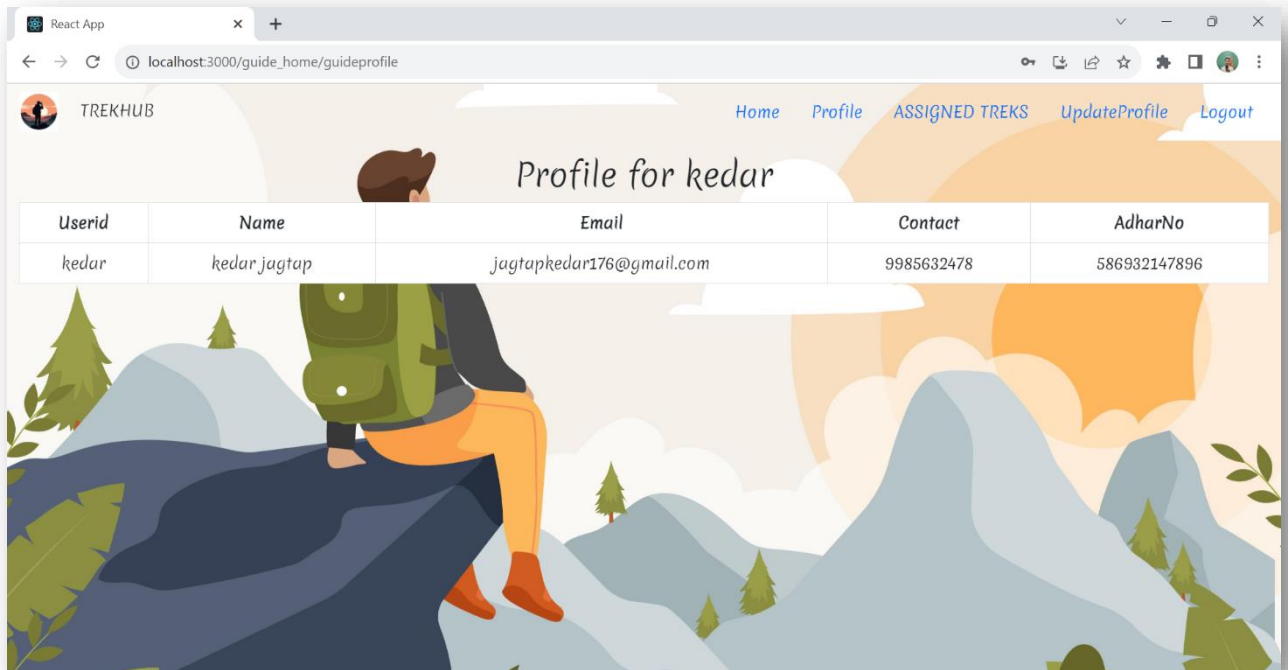
Booking ID	Booking Date	Trekker ID	Plantrek ID	Members	Amount
37	2024-08-09T15:45:59	1	2	1	1500
38	2024-08-09T23:45:31	4	23	1	5000
39	2024-08-10T15:53:14	4	1	1	1000
40	2024-08-10T16:22:59	4	1	1	1000
41	2024-08-10T16:48:29	4	2	1	1500
42	2024-08-10T16:48:36	4	4	1	300
43	2024-08-11T18:33:38	4	23	1	5000
44	2024-08-12T23:31:07	4	4	1	300
45	2024-08-13T17:04:20	4	2	1	1500

8.4.6 Payments:

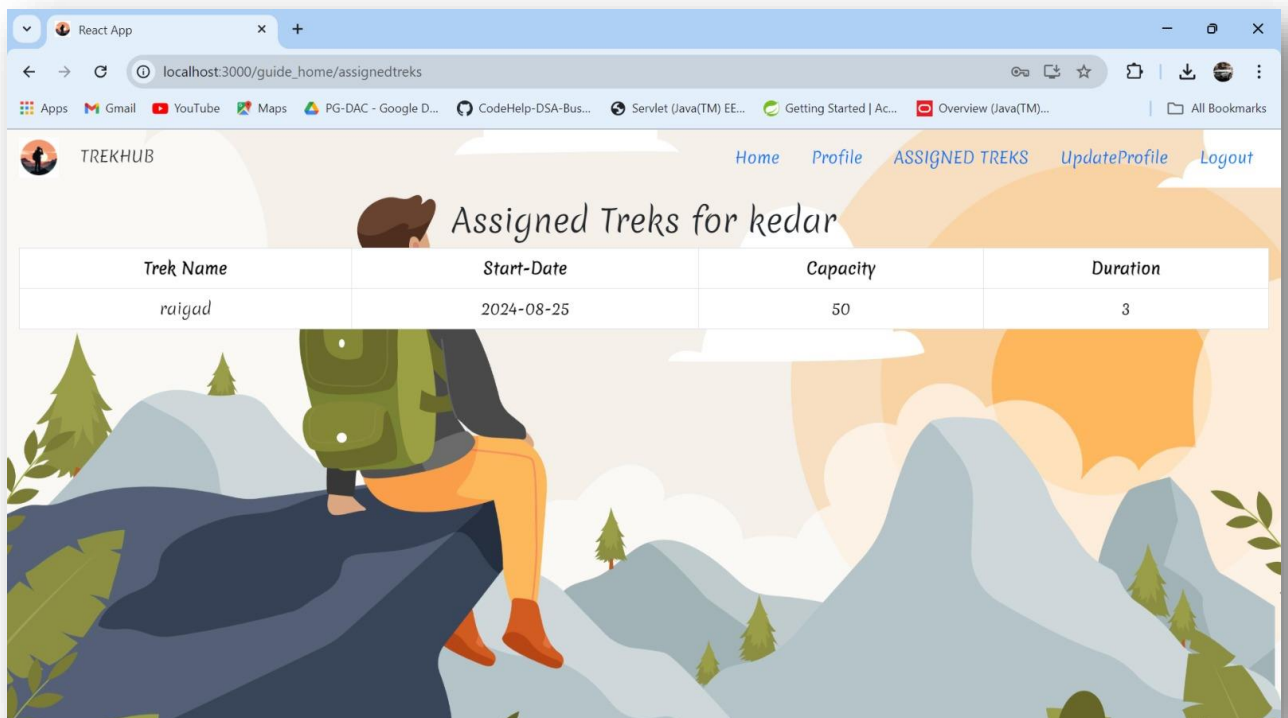
Payment ID	Payment Mode	Transaction ID	Amount	Payment Date
16	Card Payment	782639	4500.0	2023-08-26T12:46:46
17	UPI	839556	4500.0	2024-08-09T15:46:05
18	Card Payment	605995	4500.0	2024-08-09T23:45:45
19	UPI	415723	4500.0	2024-08-10T15:53:21
20	UPI	440620	4500.0	2024-08-10T16:49:26
21	UPI	746200	4500.0	2024-08-12T23:31:13

8.5 GuideHome Page:

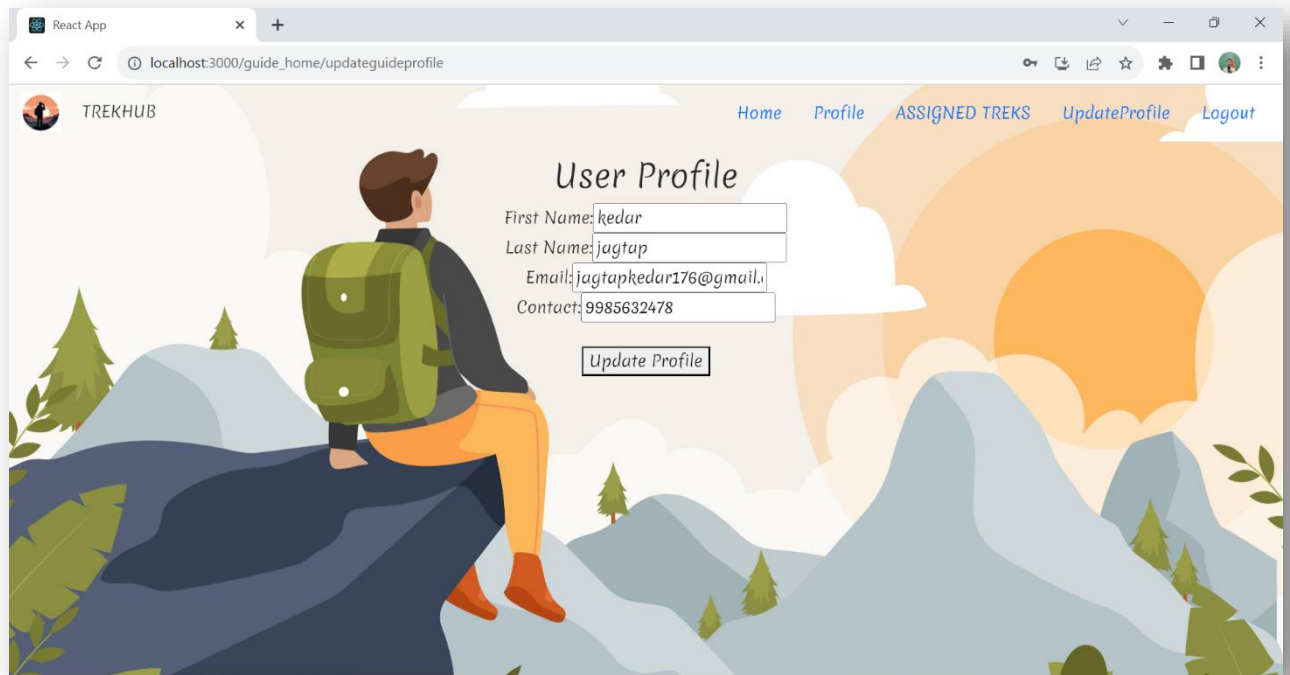
8.5.1 Guide Profile:



8.5.2 Assigned Treks:

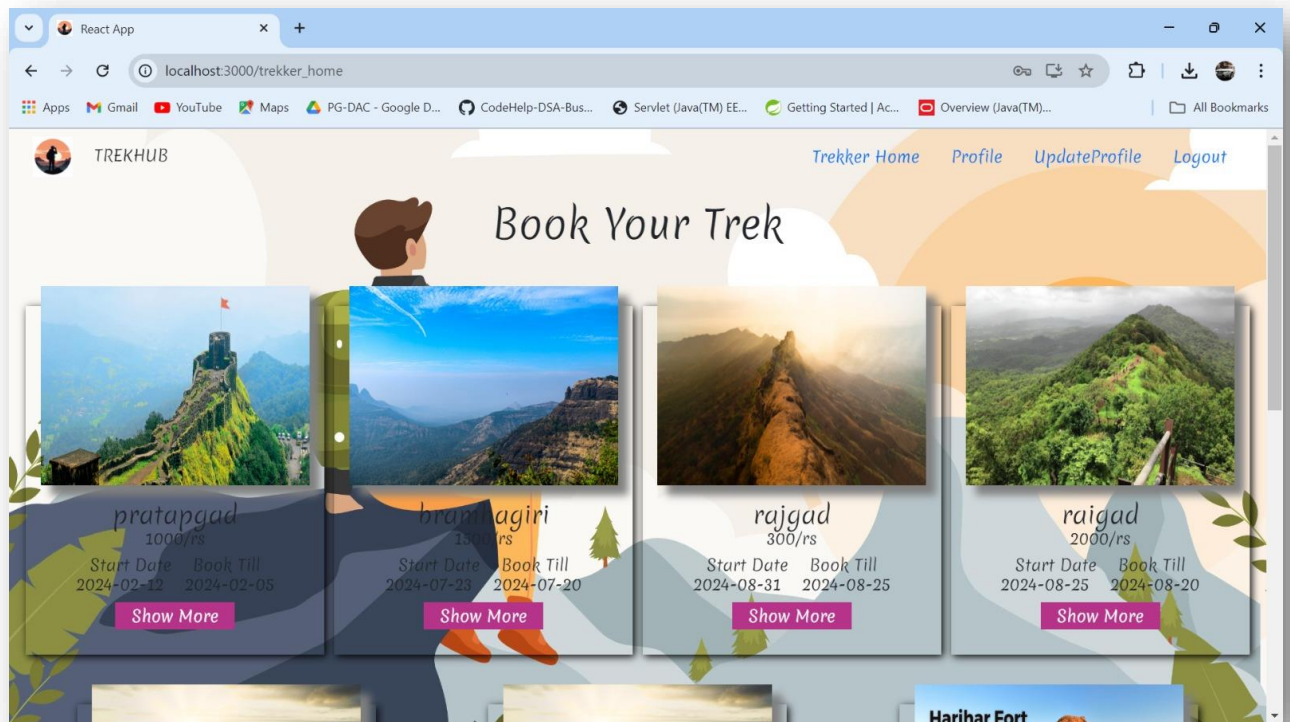


8.5.3 Update Profile:



8.6 TrekkerHome Page

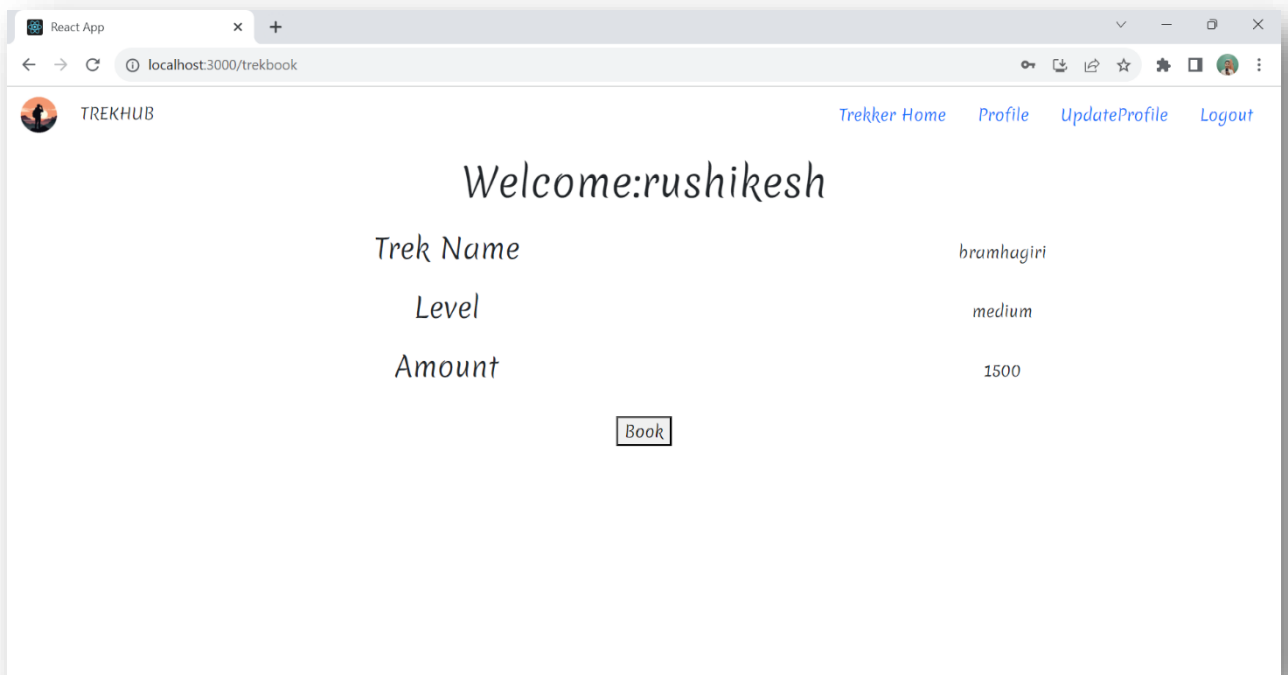
8.6.1 TrekkerHome



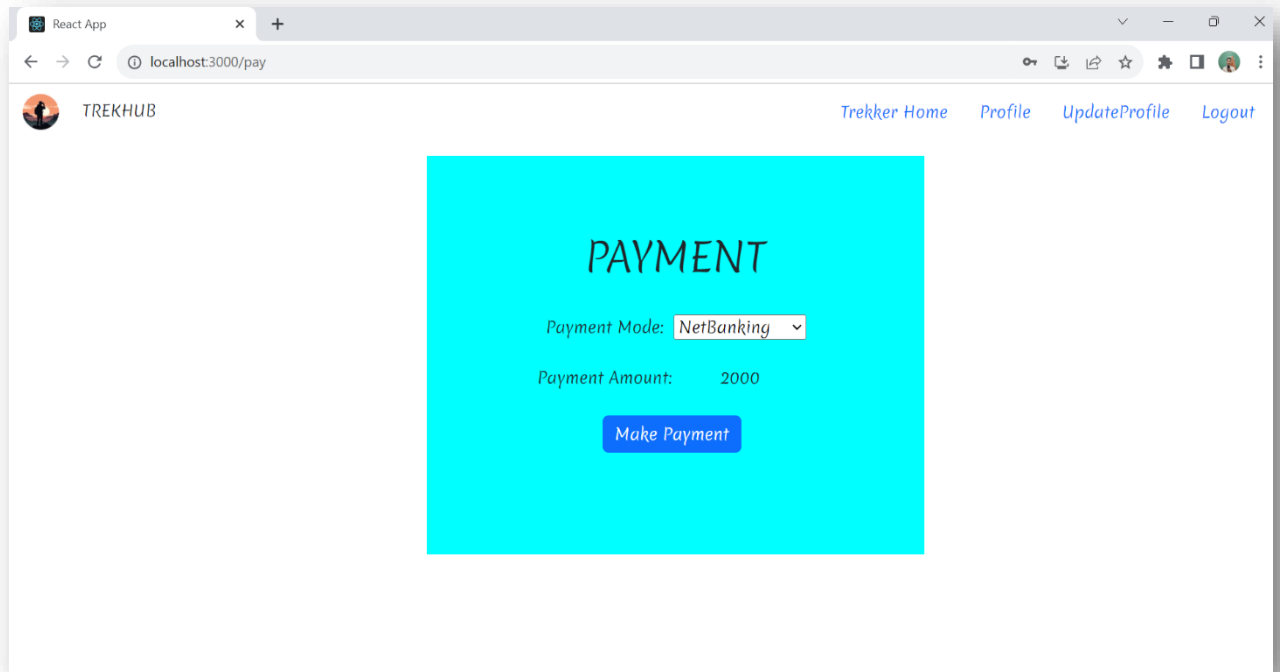
8.6.2 Trek Description

bramhagiri		<div>Description</div> <p>The trek starts from MTDC guest house at Trimbakeshwar. The route ascends here and leads you towards a couple of stone steps. Just before the steps there is a Devi temple and an old Wada. An impressive Hanuman guards the front of Wada.</p> <div>Locations</div> <p>trekmbak</p>
Start Date	2024-07-23	
Last Date To Apply	2024-07-20	
Trek Price	1500 rs	
Duration	1 Days	
Capacity	24	
Available Seats	16	
Trek level	medium	

8.6.3 Trek Booking



8.6.4 Payment



9. CONCLUSION AND FUTURE SCOPE

TrekHub provides better trek booking platform to book treks easily, economically and quickly.

Our System provides a very user-friendly platform where Trekkers can easily book treks with the help of images according to their date and location given by trekkers.

Our system will also provide functionalities like search by particular category, making travel arrangements, providing accommodation and trekkers will also be able to customize their packages according to their need.

The future scope of TrekHub can be summarized in five points:

1. ***Global Expansion***: Incorporate treks and trails from around the world.
 2. ***AI Integration***: Use AI for personalized trek recommendations.
 3. ***Community Engagement***: Enhance social and community-driven features.
 4. ***Strategic Partnerships***: Collaborate with adventure companies for additional services.
 5. ***Sustainability Focus***: Promote eco-friendly trekking and sustainable tourism initiatives.
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