Project Description:

Capturemoments is a digital platform designed to streamline the booking of Photographers for University and personal events. It eliminates the traditional manual scheduling system by offering an automated, user-friendly interface where People and faculty can browse, book and receive real-time updates from Phographers.

The System is developed using Flask for backend operations, Amazon Ec2 for hosting, DynamoDB for storing booking details, and SNS (Simple Notification Service) for email notifications. The platform ensures efficient booking, timely communication, and scalable operations, especially during peak seasons like graduation, festivals, and academic events.

Scenario 1: Photographer Booking Form Submission
The system provides a simple booking form interface. A user selects the photographer type, user ID, event date, and price. Once the form is submitted, the backend Flask application stores the data into DynamoDB.

Scenario 2: Successful Booking Confirmation
Upon submission, users are redirected to a confirmation screen that displays:

- Booking success message
- Photographer type
- Date
- Price

Scenario 3: Viewing Booking History
Users can navigate to the Booking History Page to view their previous bookings. The history includes:

- Photographer Type
- User ID
- Date
- Price

Scenario 4: Homepage for Navigation
The Homepage welcomes users and provides direct links to all important pages:

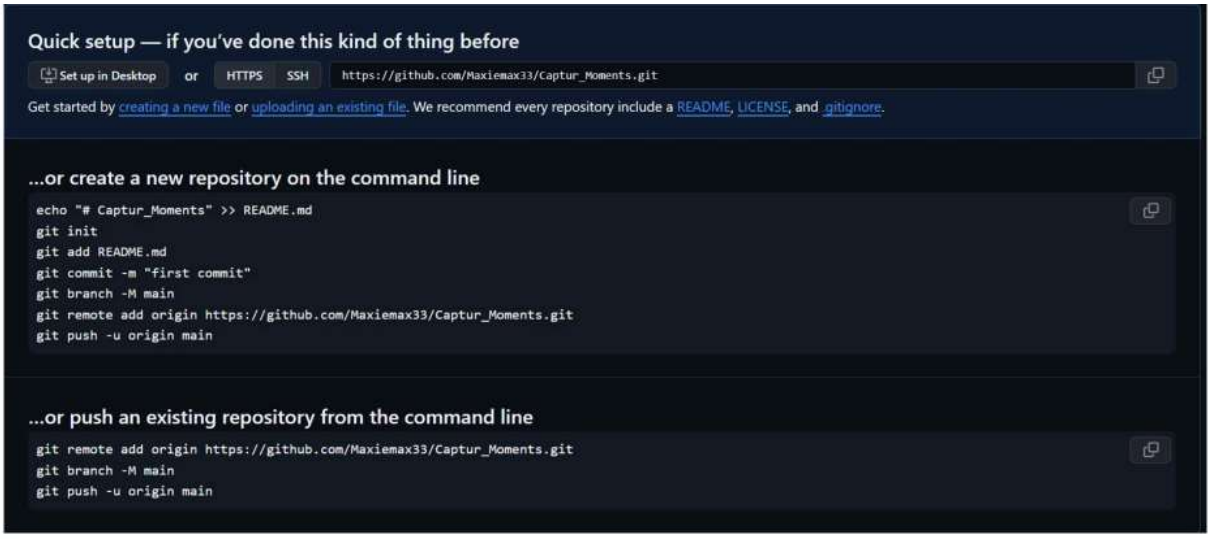
- Home
- Book Now
- Booking History

Pre-Requisites

1. .AWS Account Setup: AWS Account Setup
2. Understanding IAM: IAM Overview
3. Amazon EC2 Basics: EC2 Tutorial
4. DynamoDB Basics: DynamoDB Introduction
5. SNS Overview: SNS Documentation
6. Git Version Control: Git Documentation

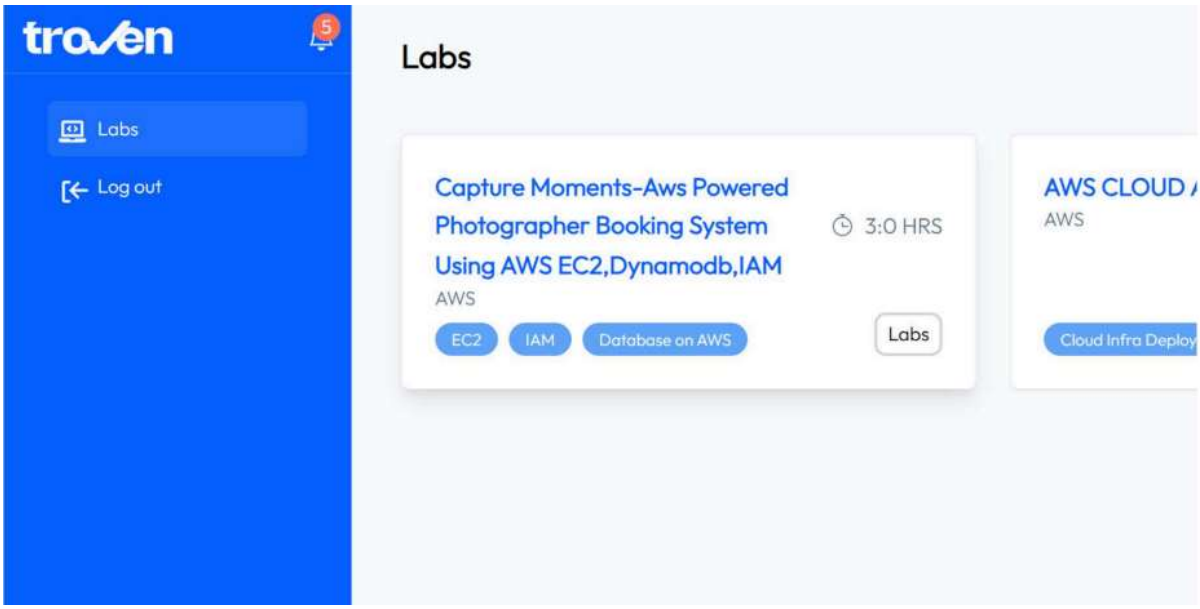
Project Work Flow

1.UPLOAD ALL FILES ON GITHUB

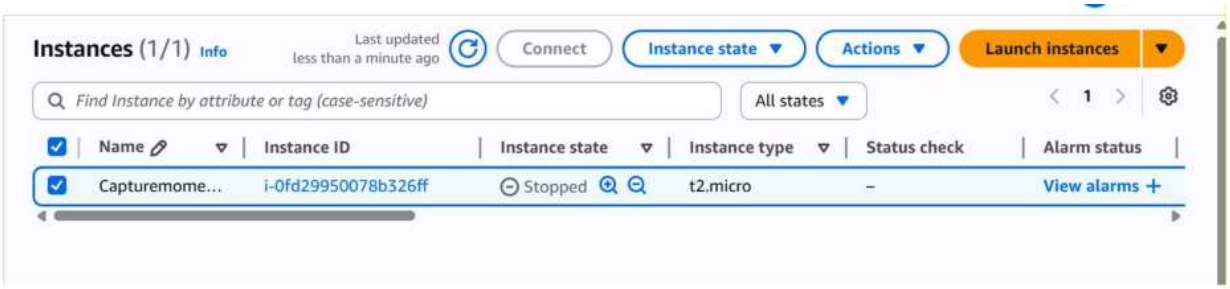


Git Bash path

2.NOW BEGIN WITH YOUR TROVEN LOGIN AND ACCESS

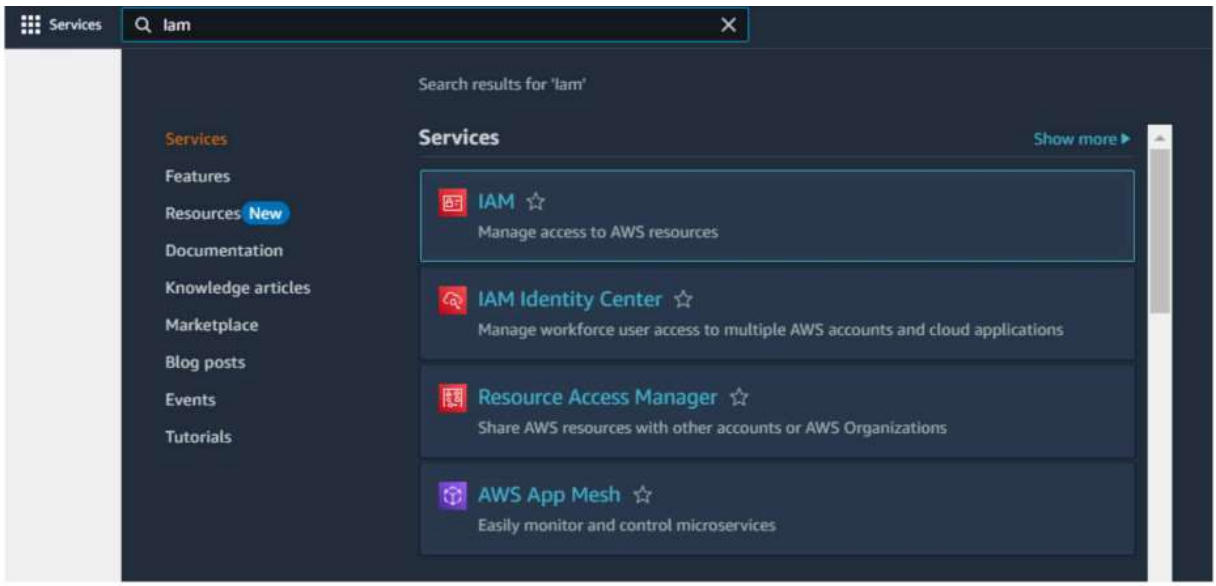


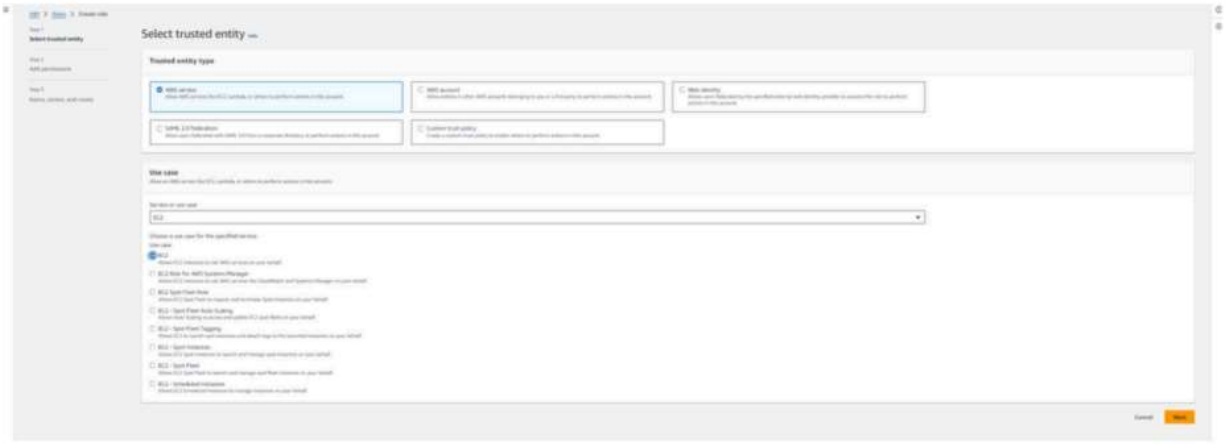
3.INITIALISED THE EC2 INSTANCE

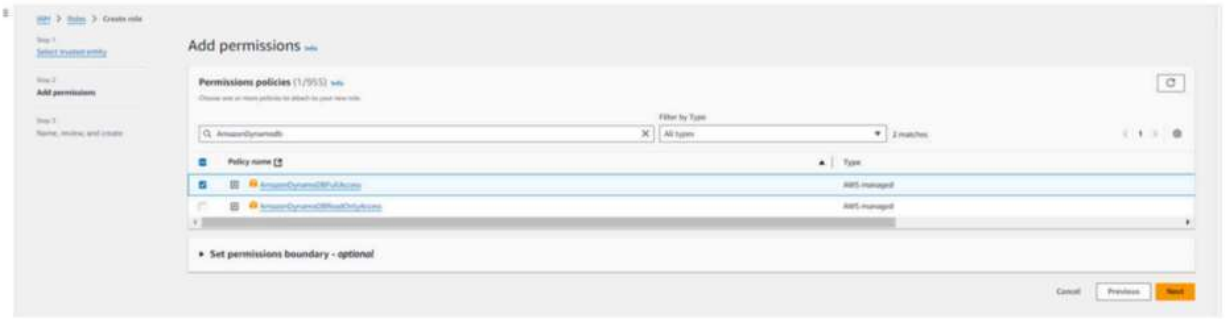


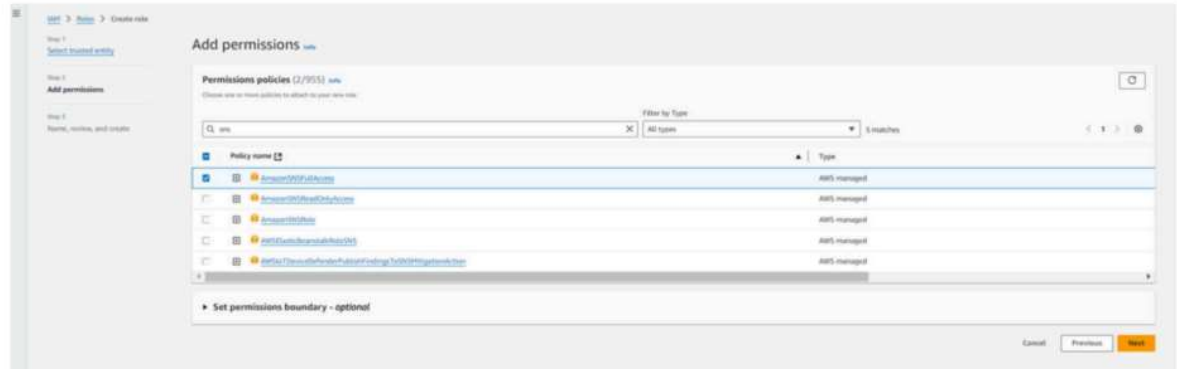
4.CREATED THE IAM ROLE

In CreaΘon of IAM Role




Select trusted entity
Trusted entity type
Use case
Cancel
Next


IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Add permissions
Permissions policies (1/955)
Filter by Type
All types
2 matches
Policy name
Type
AWS managed
Set permissions boundary - optional
Cancel
Previous
Next


IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Add permissions
Permissions policies (2/955)
Filter by Type
All types
5 matches
Policy name
Type
AWS managed
Set permissions boundary - optional
Cancel
Previous
Next

Trusted entity type: AWS service

- Use case:
- EC2 Attached permission:
- By ModifyIAM Role AmazonDynamoDBFullAccess

5.CREATED DYNAMODB TABLES

Table class	DynamoDB Standard	Yes
Capacity mode	Provisioned	Yes
Provisioned read capacity	5 RCU	Yes
Provisioned write capacity	5 WCU	Yes
Auto scaling	On	Yes
Local secondary indexes	-	No
Global secondary indexes	-	Yes
Encryption key management	Owned by Amazon DynamoDB	Yes
Deletion protection	Off	Yes
Resource-based policy	Not active	Yes

Tags

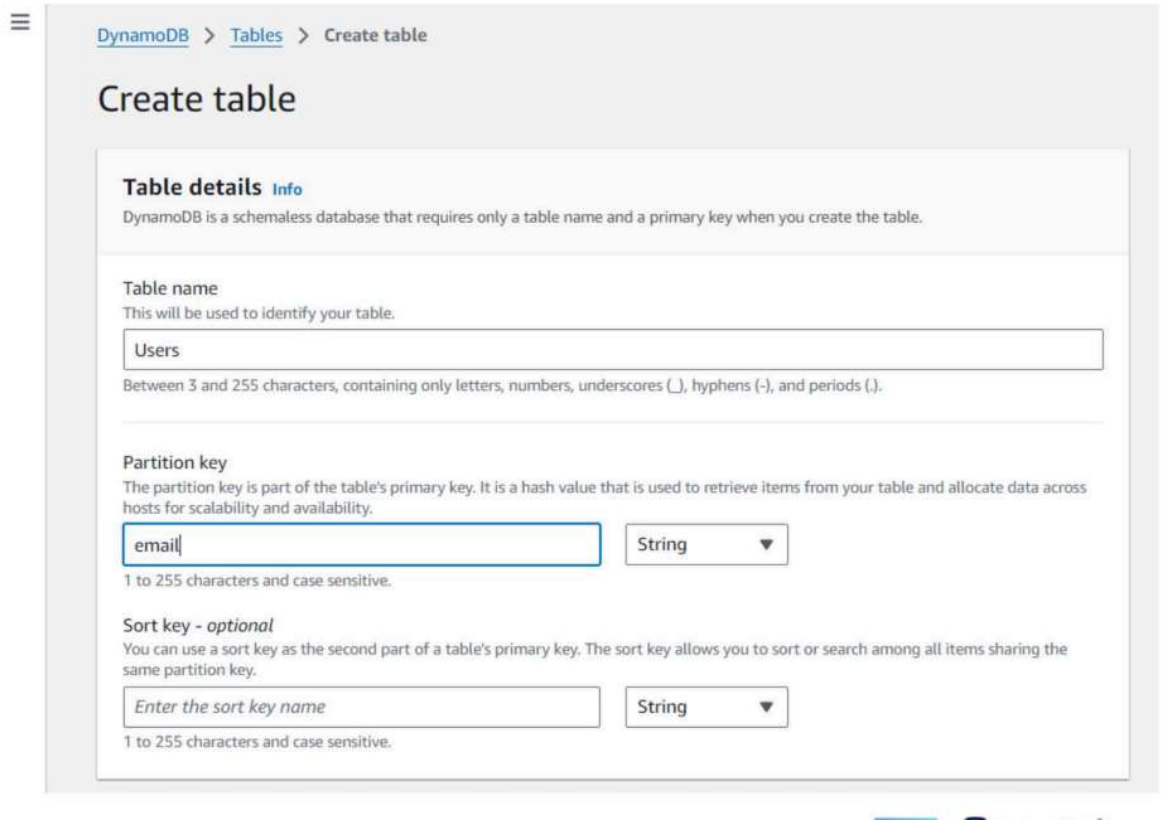
Tags are pairs of keys and optional values, that you can assign to AWS resources. You can use tags to control access to your resources or track your AWS spending.

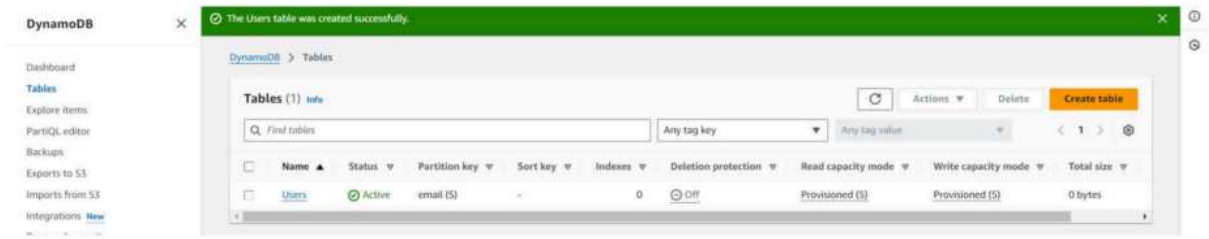
No tags are associated with the resource.

Add new tag

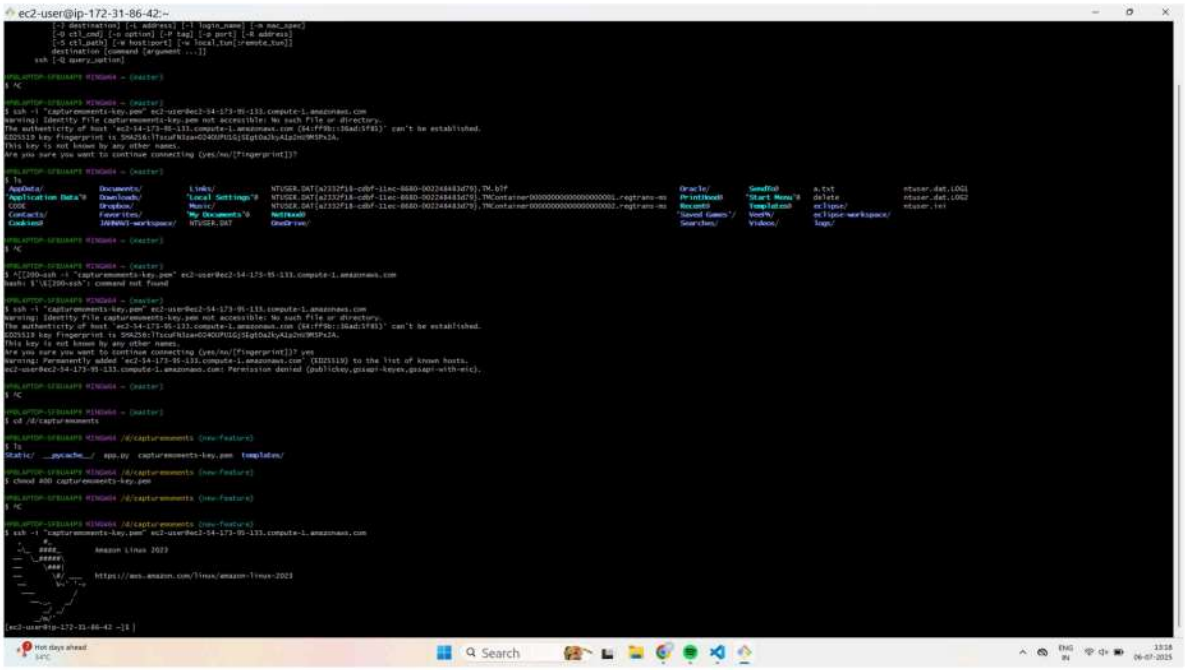
You can add 50 more tags.

Cancel Create table

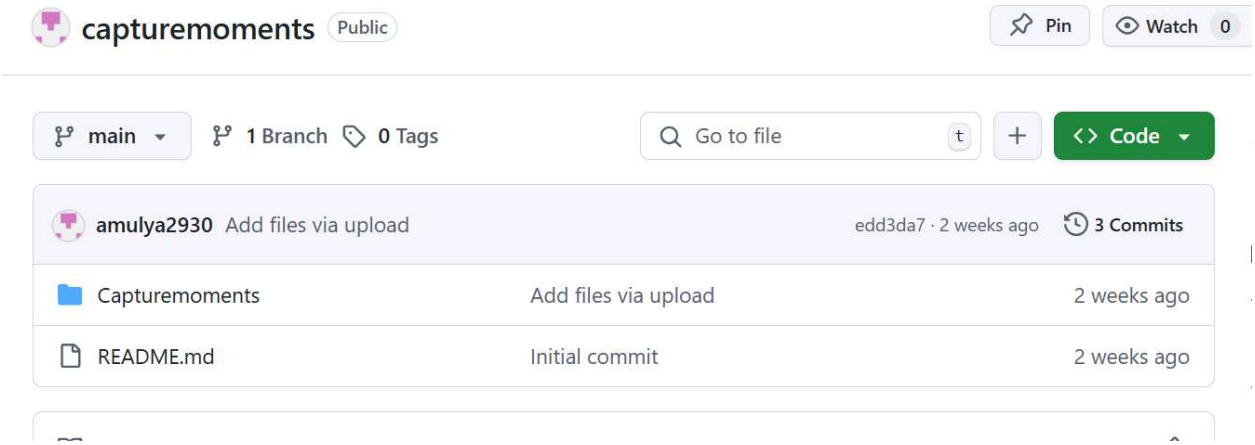

DynamoDB > Tables > Create table
Create table
Table details Info
DynamoDB is a schemaless database that requires only a table name and a primary key when you create the table.
Table name
This will be used to identify your table.
Users
Between 3 and 255 characters, containing only letters, numbers, underscores (_), hyphens (-), and periods (.).
Partition key
The partition key is part of the table's primary key. It is a hash value that is used to retrieve items from your table and allocate data across hosts for scalability and availability.
email
String
1 to 255 characters and case sensitive.
Sort key - optional
You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key.
Enter the sort key name
String
1 to 255 characters and case sensitive.


DynamoDB
Dashboard
Tables
Explore items
PartiQL editor
Backups
Exports to S3
Imports from S3
Integrations New
The Users table was created successfully.
DynamoDB > Tables
Tables (1) Info
Actions
Delete
Create table
Find tables
Any tag key
Any tag value
Name
Status
Partition key
Sort key
Indexes
Deletion protection
Read capacity mode
Write capacity mode
Total size
Users
Active
email (S)
0
Off
Provisioned (5)
Provisioned (5)
0 bytes

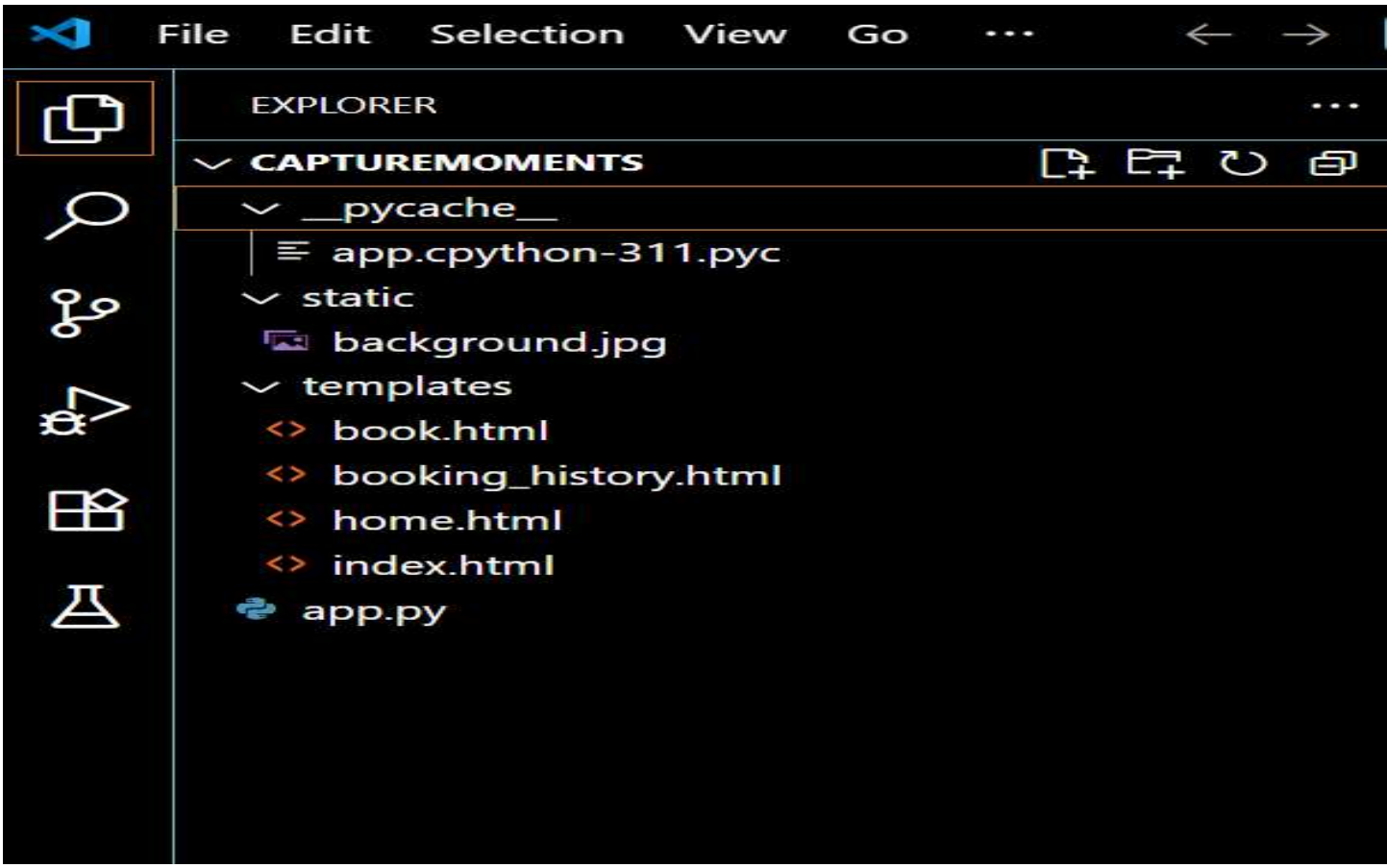
6.STARTED INSTANCE IN GITBASH AND INSTALL NECESSARY DEPENDENCIES



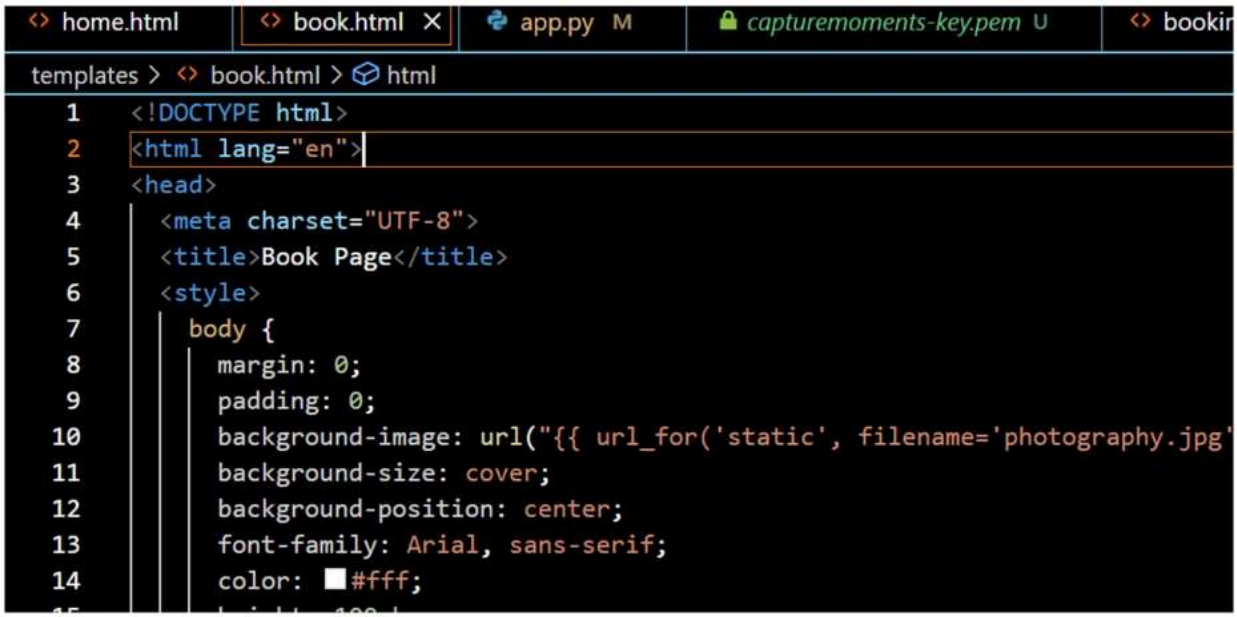
UPLOADED GITHUB REPOSITORY FILES



MILESTONE 1: The Project Files in VISUAL STUDIO



MILESTONE 2: WORKING OF book.html code



<meta charset="UTF-8">

- Ensures your webpage uses UTF-8 encoding to support most characters and symbols

<title>Book Page</title>

- Title of the browser tab.

<style>...</style>

This block defines CSS styling for the page.

Background: Dynamically loads a photo using Flask's url_for() from the static folder.

url_for('static', filename='photography.jpg')

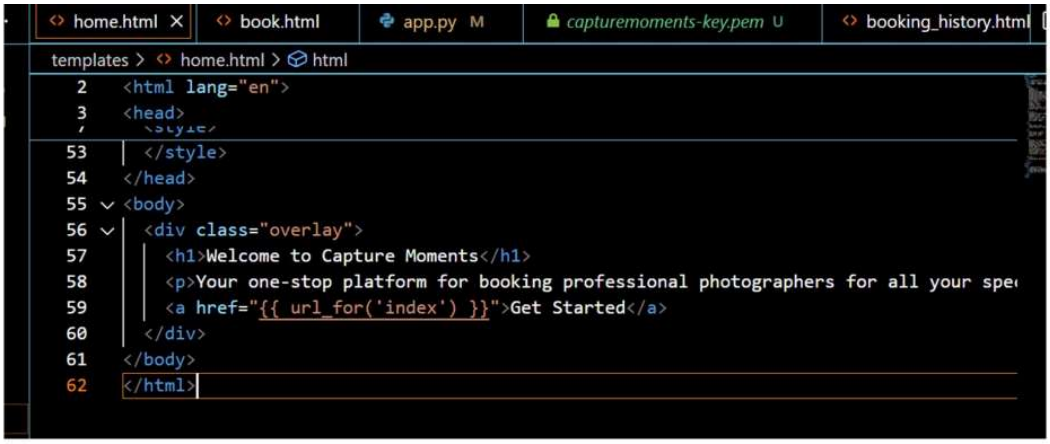
.

Working of the booking system form is

- Booking photographer
- Select the event
- SelecΘng the date of event
- Entering the price
- Book Now

```
<form method="POST" action="{{ url_for('book') }}">
    <option value="">-- Select Photographer Type --</option>
    <option value="wedding">Wedding</option>
    <option value="events">Events</option>
    <option value="birthday">Birthday</option>
    <option value="tour">Tour</option>
    <option value="wildlife">Wildlife</option>
    <option value="adventure">Adventure</option>
</select>
<input type="text" name="user_id" placeholder="Your User ID" required />
<input type="date" name="date" required />
<input type="number" name="price" placeholder="Enter Price (INR)" min="0" require
<button type="submit">Book Now</button>
```

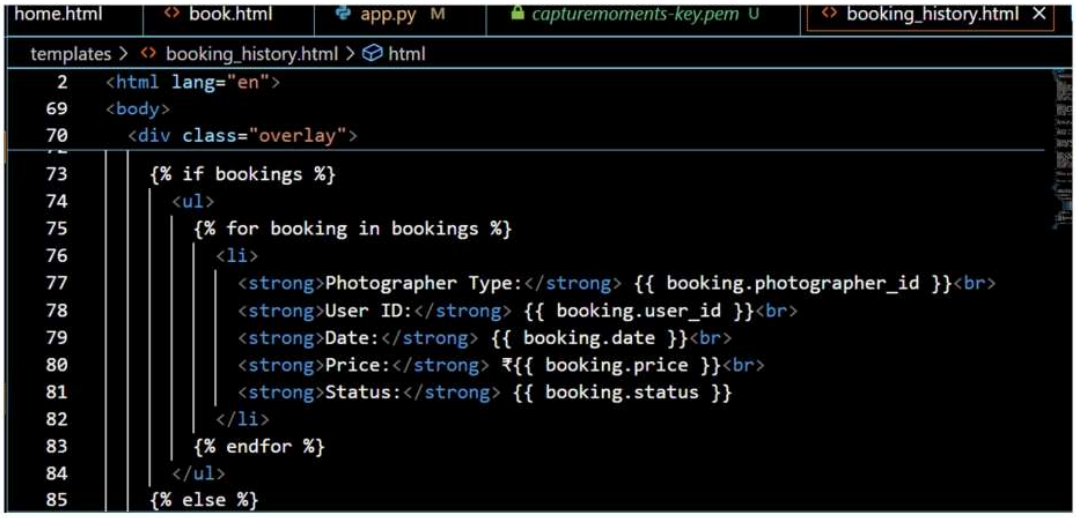
MILESTONE 3: INTRODUCTION OF THE WEBSITE AT home.html



- It visualise the welcome home page of capture moments project

This Home page gives a small descripΘon of the Capture Moments booking System Project.

MILESTONE4: STORING THE DATA OF BOOKING SYSTEM AND SHOWS THE COPY of booking_history. html

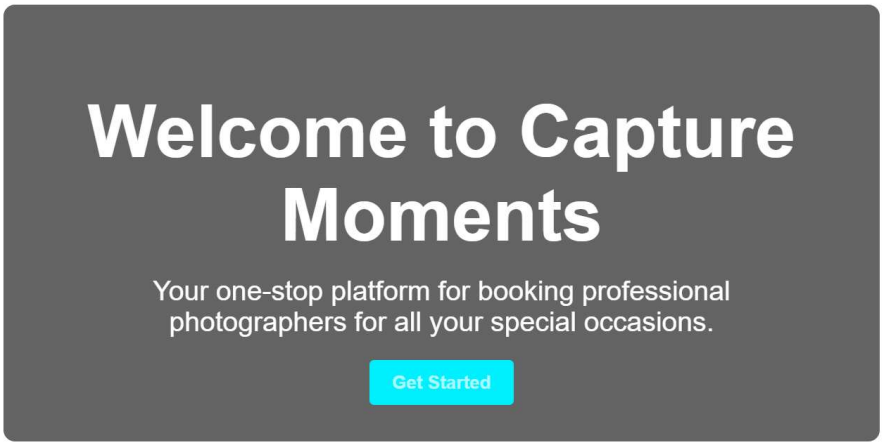


MILESTONE 5: WORKING OF app.py

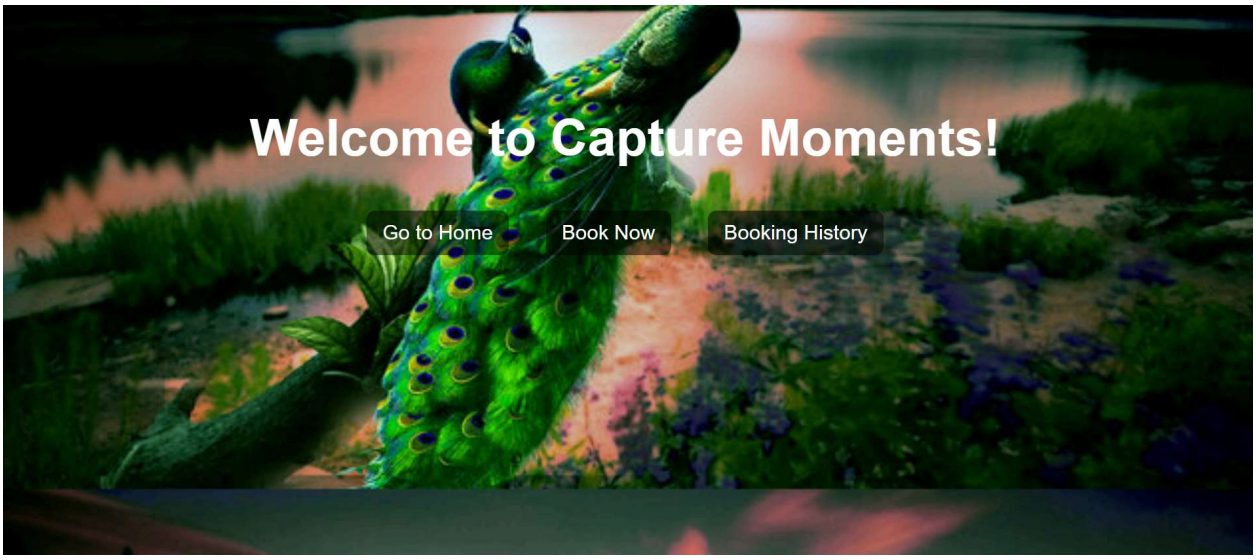
- APP.py Runs with the flask app .
- APP.py Manages the html codes to run properly .
- APP.py is the major role in hosting the website .

FINAL OUTPUT OF THE CAPTURE MOMENTS WEBSITE

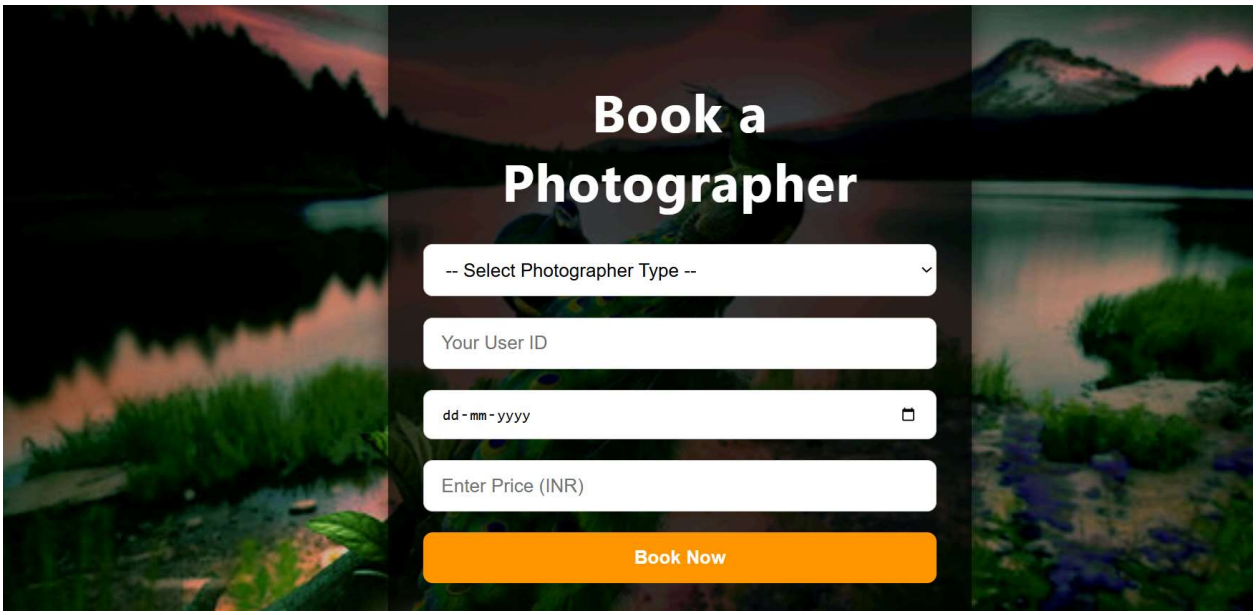
- HOME PAGE



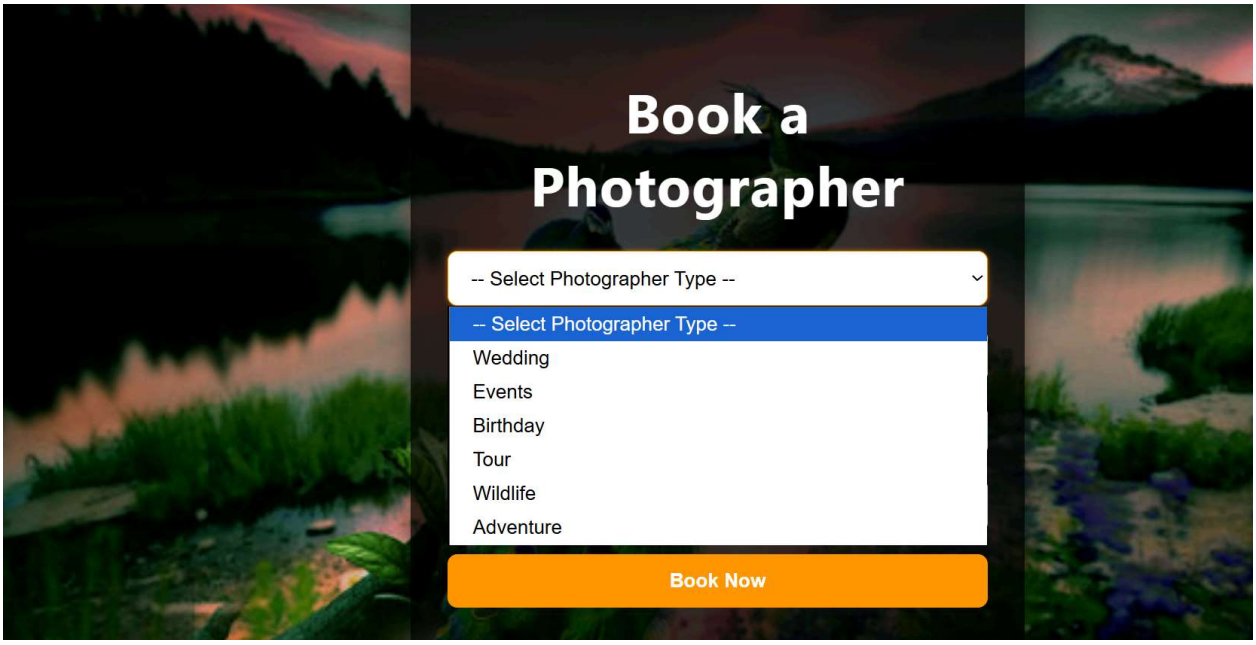
- **INDEX PAGE**

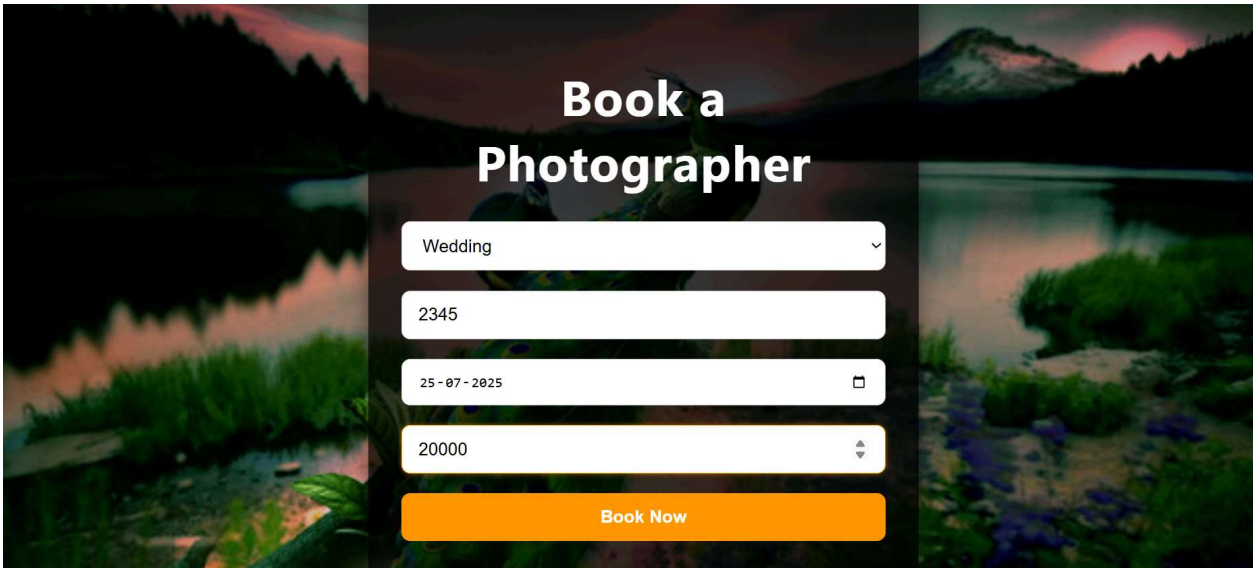


- **BOOKİNG PHOTOGRAPHERS PAGE**



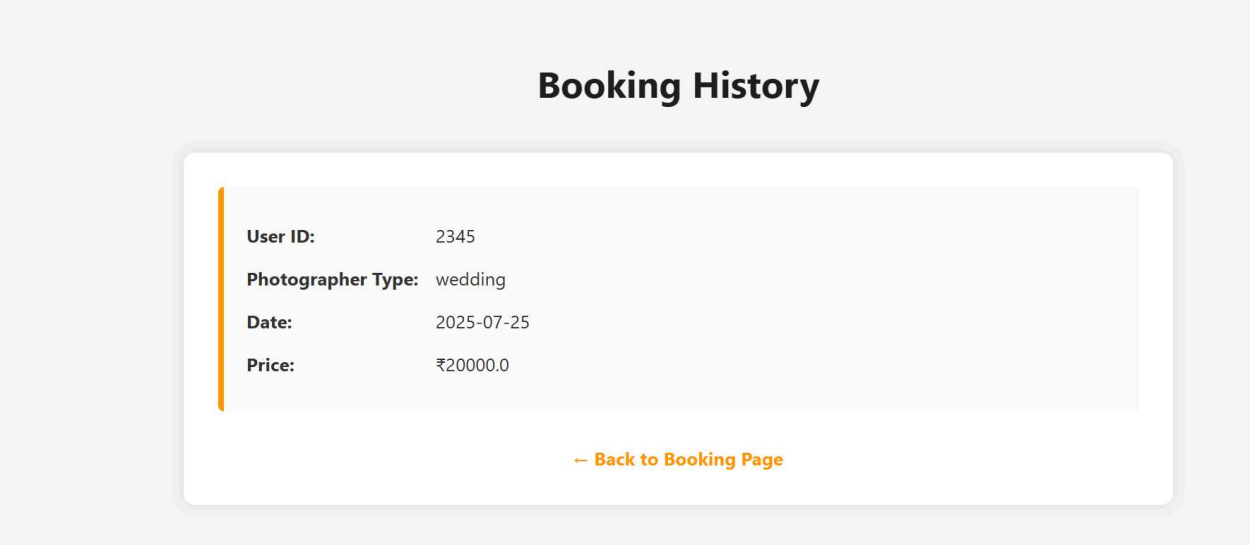
Process of booking phographers





- ☆ **BOOKING SUCCESSFUL PAGE**

BOOKING HISTORY



CONCLUSION:

capture moments booking system is aprocess booking photographers to the events like birthday,wedding,event etc. the scheduling the photographers to the particular date.