

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 Photographers.

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:

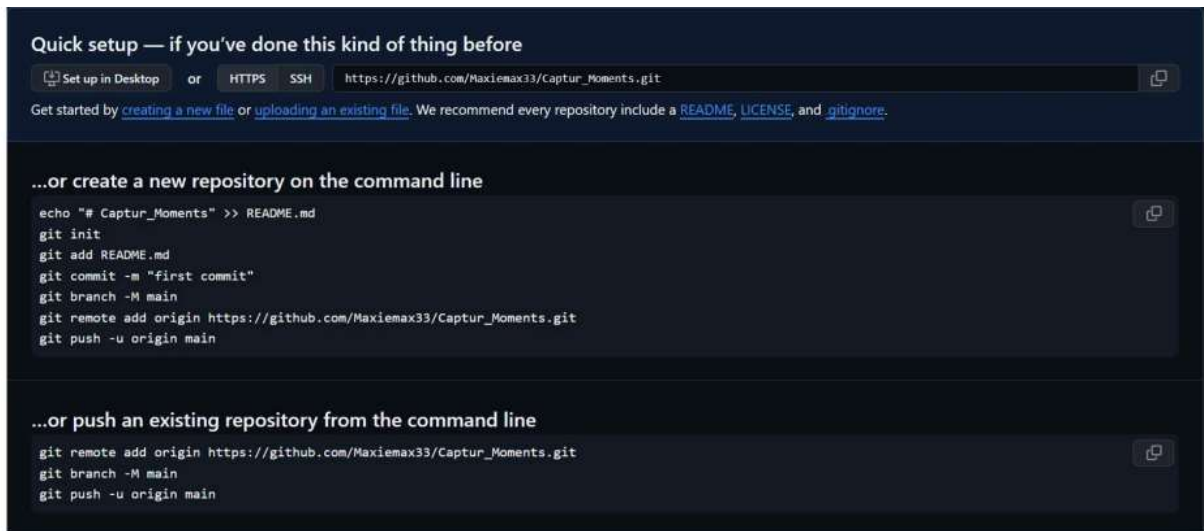
- Home
- Book Now
- Booking History

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



Quick setup — if you've done this kind of thing before

 Set up in Desktop or **HTTPS** **SSH** `https://github.com/Maxiemax33/Captur_Moments.git` 

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [gitignore](#).


...or create a new repository on the command line

```
echo "# Captur_Moments" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/Maxiemax33/Captur_Moments.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/Maxiemax33/Captur_Moments.git
git branch -M main
git push -u origin main
```

Git Bash path

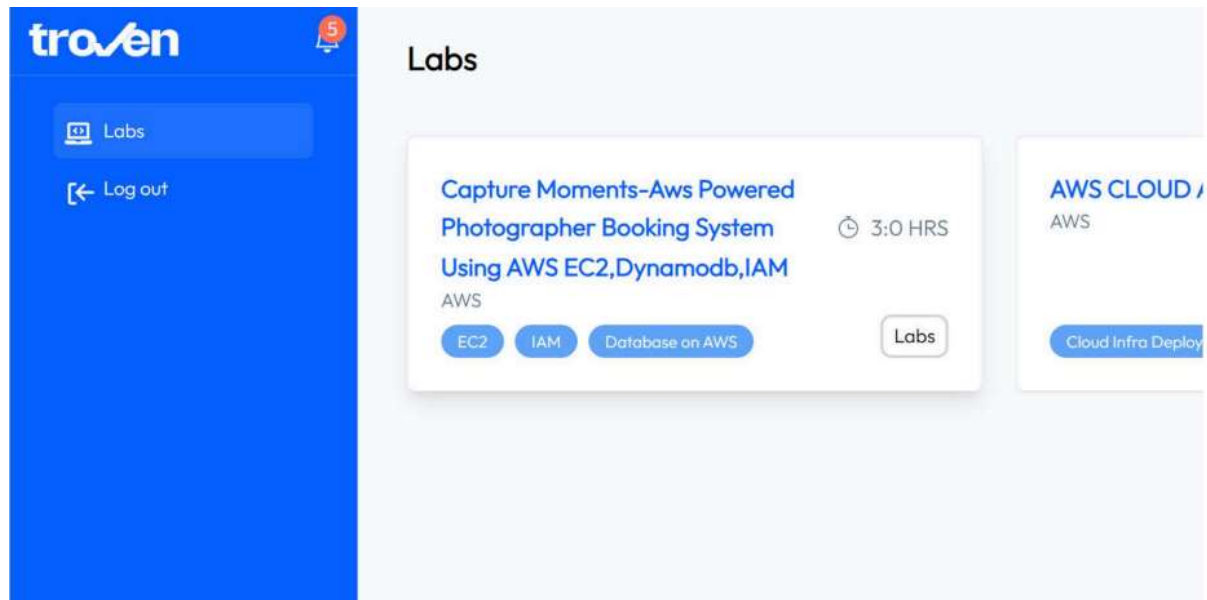


```
MINGW64:/d/capturemoments

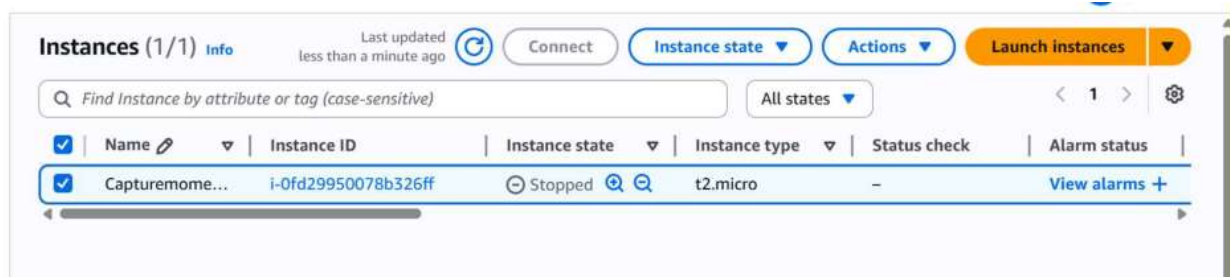
HP@LAPTOP-SFBUA4P9 MINGW64 ~ (master)
$ cd d:\capturemoments

HP@LAPTOP-SFBUA4P9 MINGW64 /d/capturemoments (new-feature)
$
```

2.NOW BEGIN WITH YOUR TROVEN LOGIN AND ACCESS

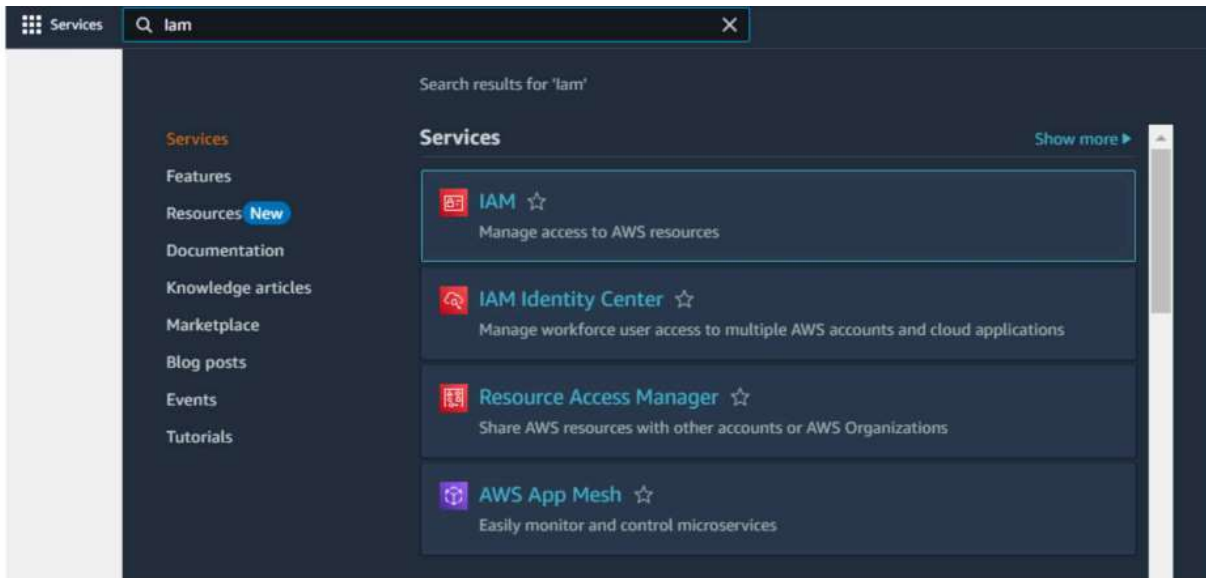


3.INITIALISED THE EC2 INSTANCE



4.CREATED THE IAM ROLE

In CreaOon of IAM Role



Select trusted entity

Trusted entity type

- ☒ AWS IAM user
Allows an AWS IAM user to be trusted to assume IAM roles in this account.
- ☐ AWS account
Allows an AWS account to be trusted to assume IAM roles in this account.
- ☐ Web identity
Allows an OpenID Connect ID token to be trusted to assume IAM roles in this account.
- ☐ SAML 2.0 Federation
Allows an SAML 2.0 Federation protocol assertion to be trusted to assume IAM roles in this account.
- ☐ Custom trust policy
Allows a custom trust policy to be trusted to assume IAM roles in this account.

Use case

Allow an AWS IAM user to be trusted to assume IAM roles in this account.

Service or role name

Role name

Choose a role name for the specific role.

- ☐ Role for AWS Systems Manager
Allows an AWS IAM user to be trusted to assume IAM roles in this account.
- ☐ Role for AWS IAM user
Allows an AWS IAM user to be trusted to assume IAM roles in this account.
- ☐ Role for AWS IAM user
Allows an AWS IAM user to be trusted to assume IAM roles in this account.
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- ☐ Role for AWS IAM user
Allows an AWS IAM user to be trusted to assume IAM roles in this account.

Next

Add permissions

Permissions policies (1/953)

Choose one or more policies to attach to your new role.

Filter by Type

AmazonDynamoDB

All types 2 matches

Policy name	Type
AmazonDynamoDBFullAccess	AWS managed
AmazonDynamoDBReadOnlyAccess	AWS managed

Set permissions boundary - optional

Cancel Previous Next

Add permissions

Permissions policies (2/953)

Choose one or more policies to attach to your new role.

Filter by Type

aws

All types 5 matches

Policy name	Type
AmazonS3OutpostsFullAccess	AWS managed
AmazonS3OutpostsReadOnlyAccess	AWS managed
AmazonS3OutpostsReadOnlyAccess	AWS managed
AmazonS3OutpostsReadOnlyAccess	AWS managed
AmazonS3OutpostsReadOnlyAccess	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.

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.

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.

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](#)

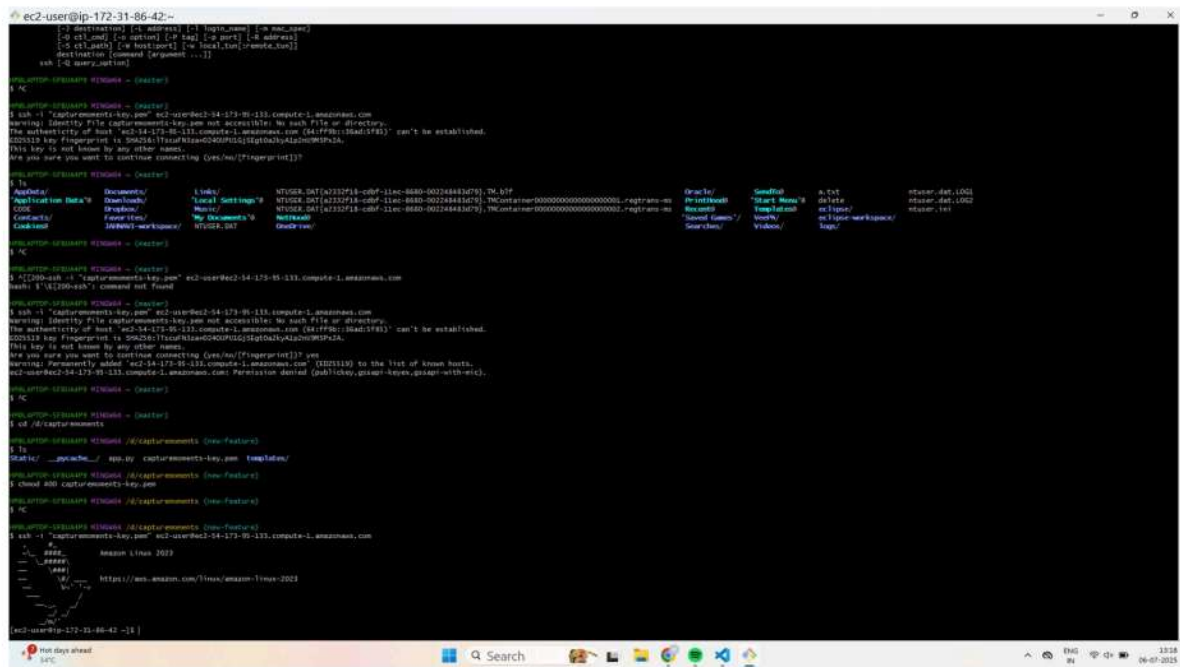
Any tag key ▼

Any tag value ▼

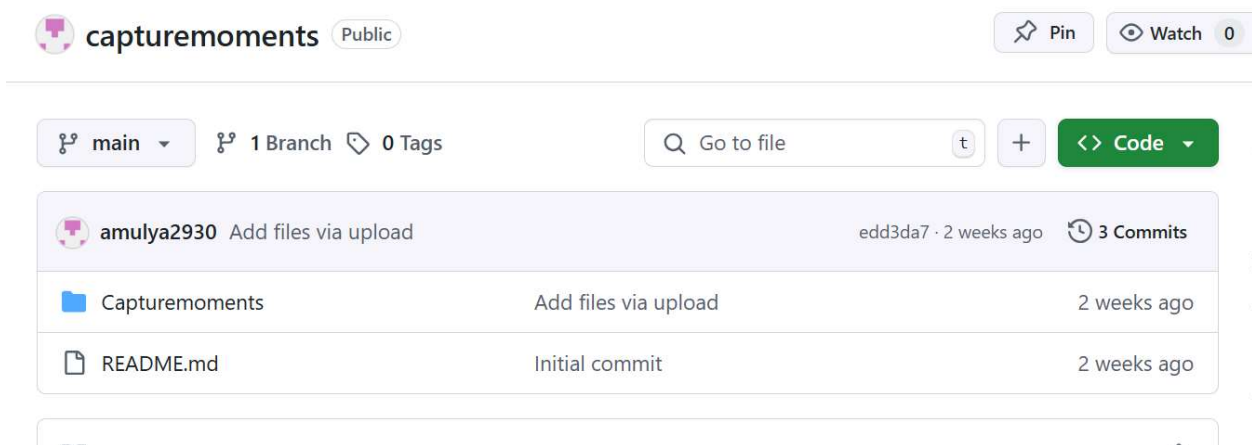
< 1 >

<input type="checkbox"/>	Name ▲	Status ▼	Partition key ▼	Sort key ▼	Indexes ▼	Deletion protection ▼	Read capacity mode ▼	Write capacity mode ▼	Total size ▼
<input type="checkbox"/>	Users	Active	email (S)	-	0	Off	Provisioned (S)	Provisioned (S)	0 bytes

6.STARTED INSTANCE IN GITBASH AND INSTALL NECESSARY DEPENDENCIES

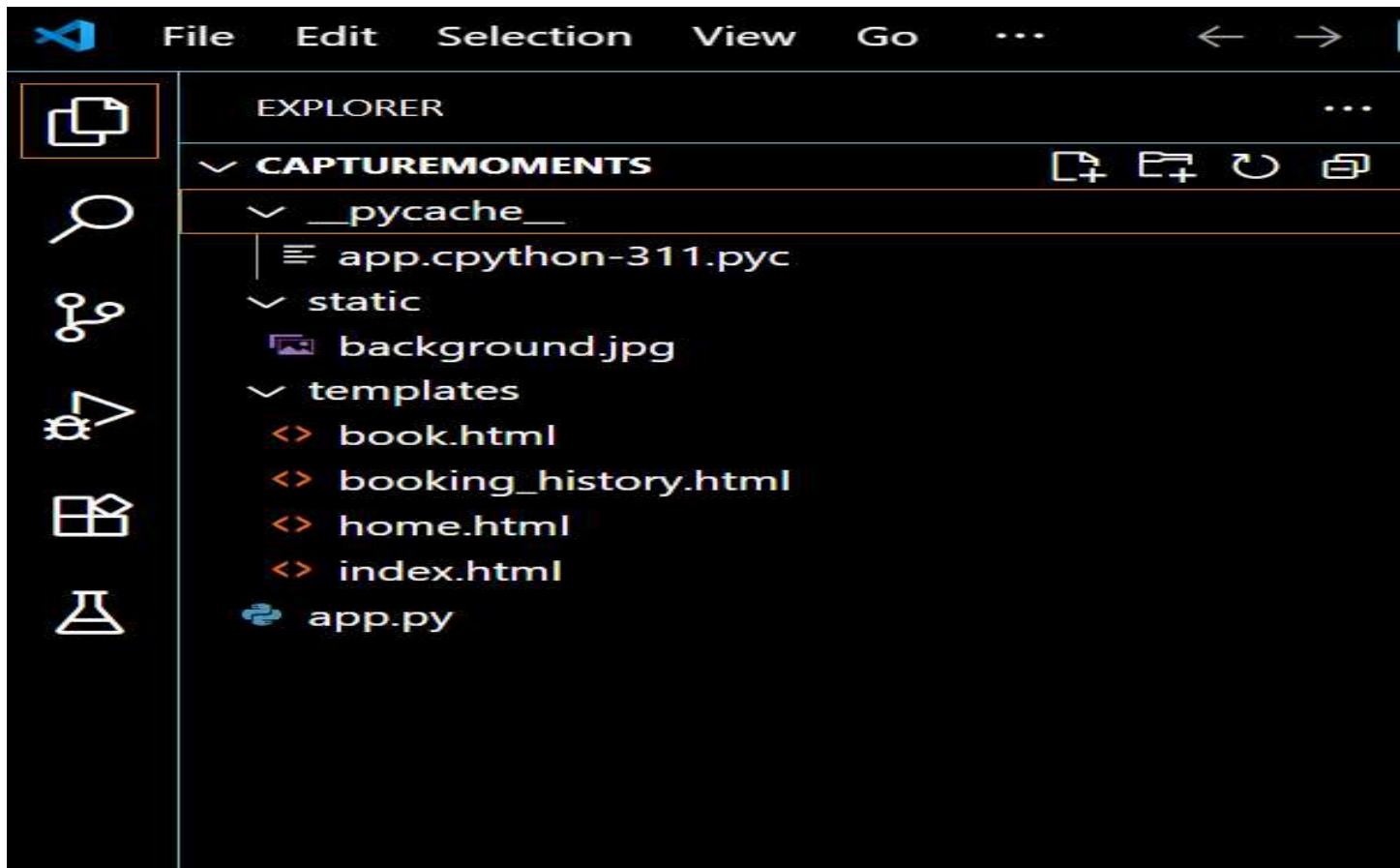


UPLOADED GITHUB REPOSITORY FILES



CAPTURE MOMENTS BOOKING SYSTEM PROJECT

MILESTONE 1: The Project Files in VISUAL STUDIO



MILESTONE 2: WORKING OF book.html code

```

<> home.html  <> book.html X  app.py M  capturemoments-key.pem U  <> bookir
templates > <> book.html > html
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>Book Page</title>
6      <style>
7          body {
8              margin: 0;
9              padding: 0;
10             background-image: url('{{ url_for('static', filename='photography.jpg'
11             background-size: cover;
12             background-position: center;
13             font-family: Arial, sans-serif;
14             color: #fff;

```

`<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.

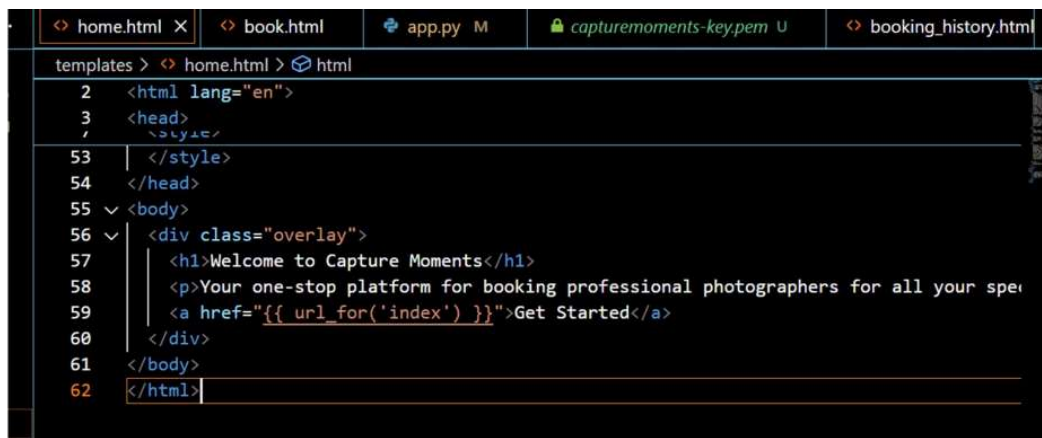
`url_for('static', filename='photography.jpg')`

Working of the booking system form is

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

```
<form method="POST" action="{{ url_for('book') }}">
  <select>
    <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" required />
  <button type="submit">Book Now</button>
```

MILESTONE 3: INTRODUCTION OF THE WEBSITE AT home.html



```

1  <html lang="en">
2  <head>
3    <title>Capture Moments</title>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
7  </head>
8  <body>
9    <div class="overlay">
10     <h1>Welcome to Capture Moments</h1>
11     <p>Your one-stop platform for booking professional photographers for all your special occasions</p>
12     <a href="{{ url_for('index') }}">Get Started</a>
13   </div>
14 </body>
15 </html>
```

- It visualise the welcome home page of capture moments project

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

MILESTONE 4: STORING THE DATA OF BOOKING SYSTEM AND SHOWS THE COPY of booking_history. html

```

home.html  <> book.html  app.py M  capturemoments-key.pem U  booking_history.html X
templates > <> booking_history.html > html
2  <html lang="en">
69 <body>
70 <div class="overlay">
71
73     {% if bookings %}
74         <ul>
75             {% for booking in bookings %}
76                 <li>
77                     <strong>Photographer Type:</strong> {{ booking.photographer_id }}<br>
78                     <strong>User ID:</strong> {{ booking.user_id }}<br>
79                     <strong>Date:</strong> {{ booking.date }}<br>
80                     <strong>Price:</strong> ₹{{ booking.price }}<br>
81                     <strong>Status:</strong> {{ booking.status }}
82                 </li>
83             {% endfor %}
84         </ul>
85     {% else %}
  
```

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 .

```
home.html  book.html  app.py  capturemoments-key.pem  b
app.py > ...
1  from flask import Flask, render_template, request, redirect, url_for
2
3  app = Flask(__name__)
4  app.secret_key = 'your_secret_key'
5
6  # in-memory list to store bookings
7  all_bookings = []
8
9  @app.route('/')
10 def home():
11     return render_template('home.html')
12
13 @app.route('/index')
14 def index():
15     return render_template('index.html')
16
```

FINAL OUTPUT OF THE CAPTURE MOMENTS WEBSITE

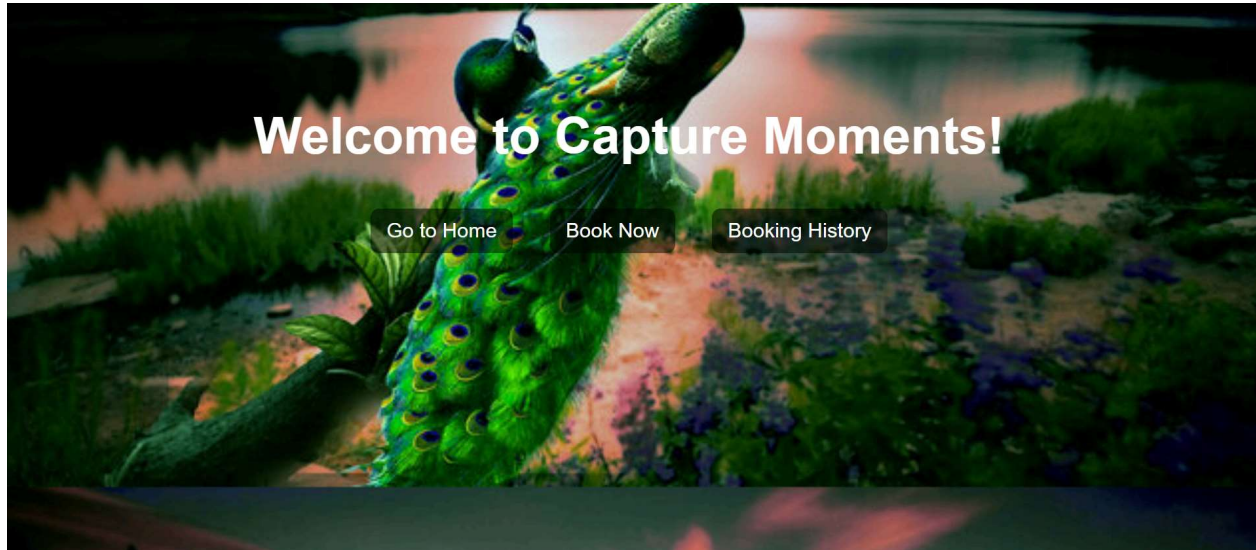
- HOME PAGE

Welcome to Capture Moments

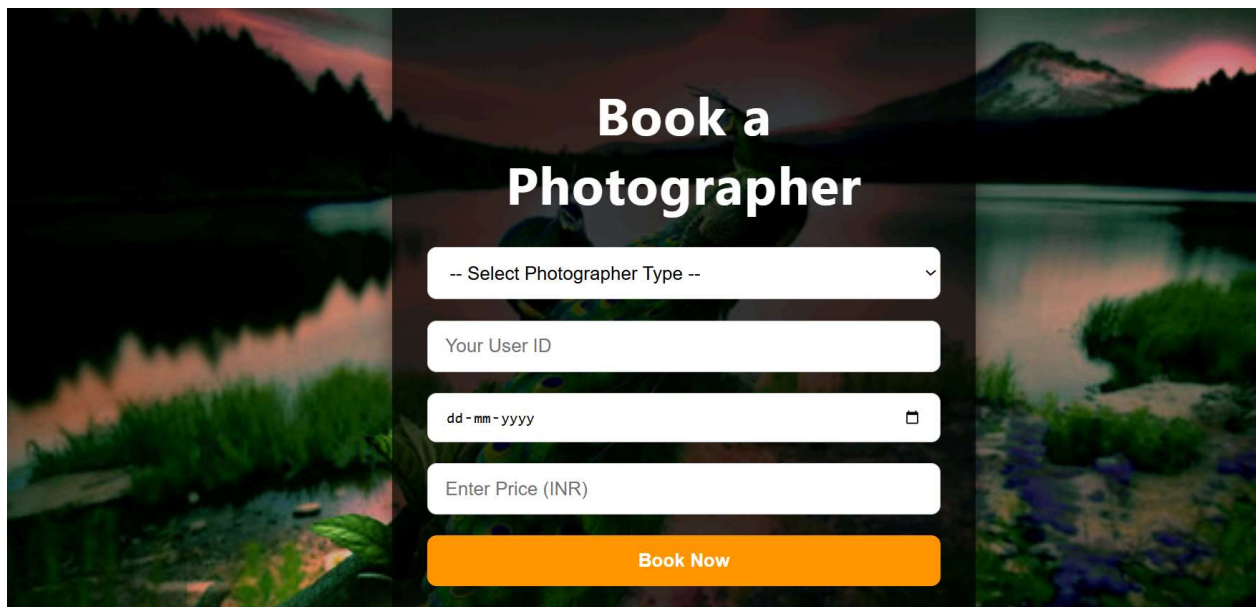
Your one-stop platform for booking professional photographers for all your special occasions.

[Get Started](#)

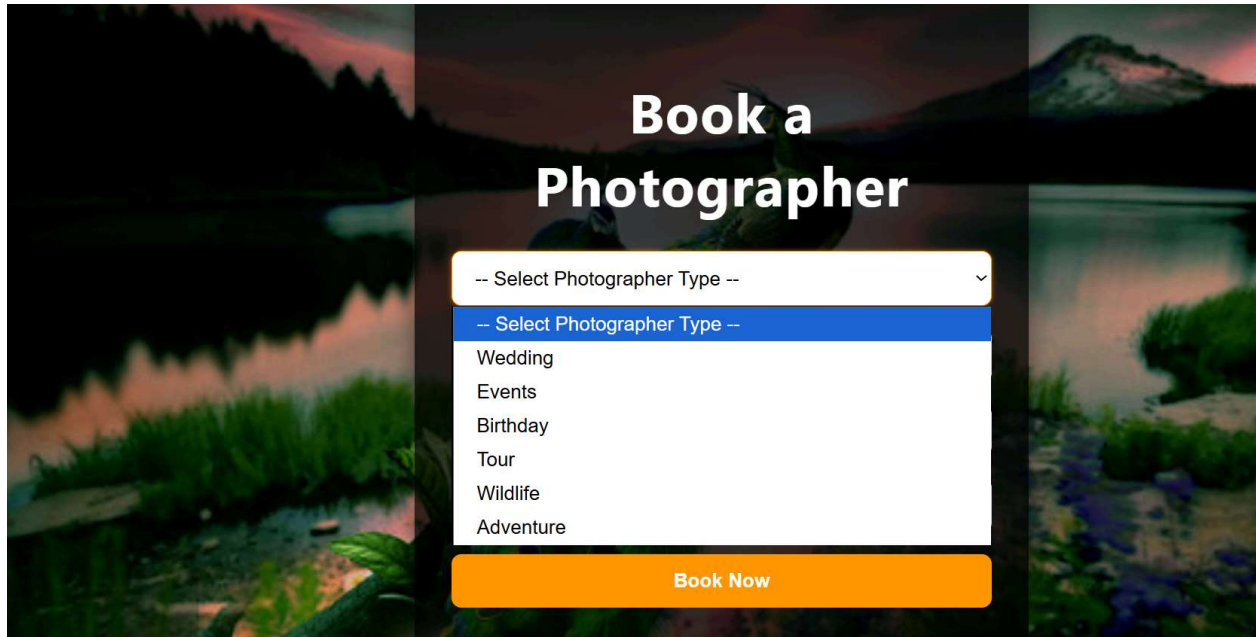
- INDEX PAGE



- BOOKING PHOTOGRAPHERS PAGE

A form titled "Book a Photographer" is displayed on a background image of a peacock in a field. The form is centered and contains the following elements: a dropdown menu with the text "-- Select Photographer Type --" and a downward arrow; a text input field labeled "Your User ID"; a date input field with the placeholder "dd - mm - yyyy" and a calendar icon; a text input field labeled "Enter Price (INR)"; and a large orange button labeled "Book Now".

Process of booking photographers

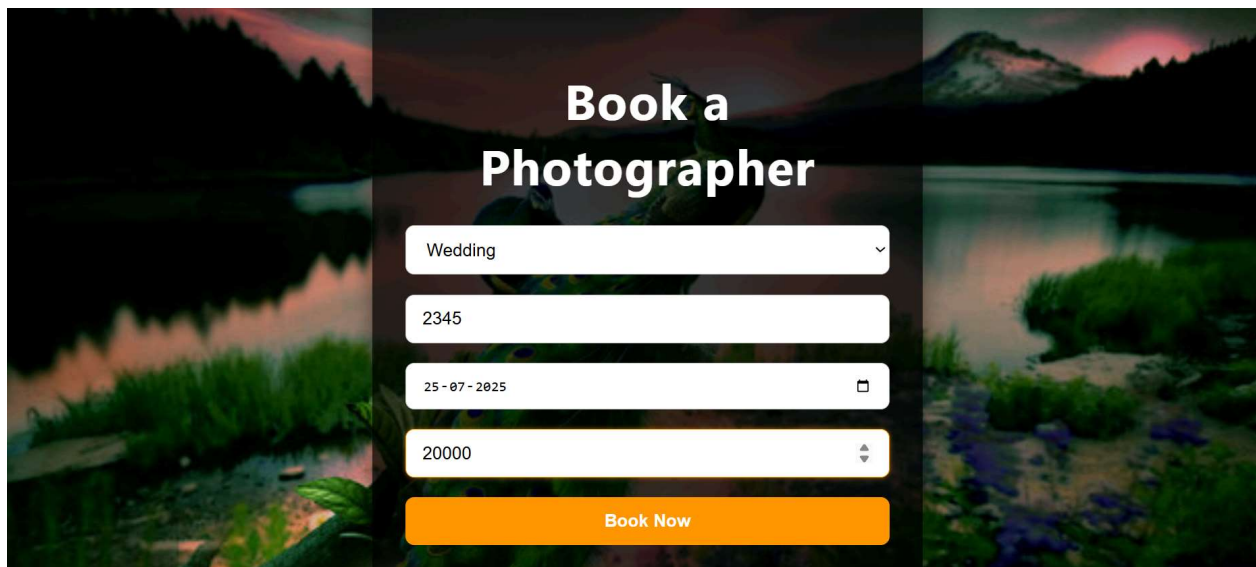


Book a Photographer

-- Select Photographer Type --

- Select Photographer Type --
- Wedding
- Events
- Birthday
- Tour
- Wildlife
- Adventure

Book Now



Book a Photographer

Wedding

2345

25 - 07 - 2025

20000

Book Now

☆ BOOKING SUCCESSFUL PAGE

BOOKING HISTORY

Booking History

User ID:	2345
Photographer Type:	wedding
Date:	2025-07-25
Price:	₹20000.0

[← Back to Booking Page](#)

CONCLUSION:

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