



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

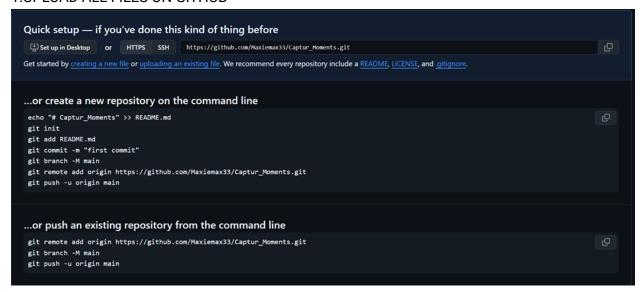
- 1. .AWS Account Setup: AWS Account Setup
- **2. Understanding IAM**: IAM Overview
- **3. Amazon EC2 Basics**: EC2 Tutorial
- **4. DynamoDB Basics**: DynamoDB Introduction
- **5. SNS Overview**: SNS Documentation
- **6. Git Version Control**: Git Documentation





Project Work Flow

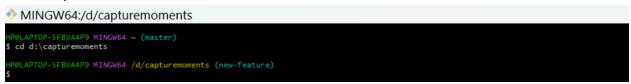
1.UPLOAD ALL FILES ON GITHUB



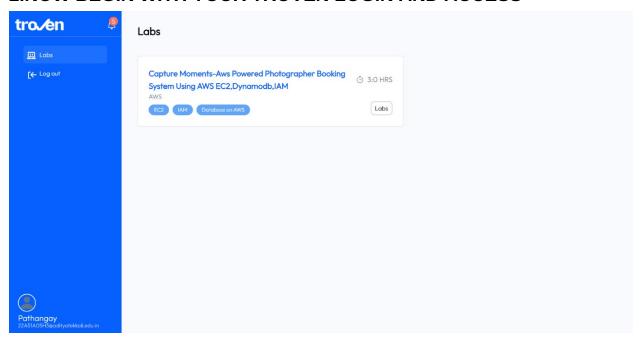




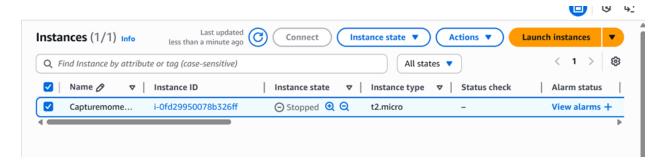
Git Bash path



2.NOW BEGIN WITH YOUR TROVEN LOGIN AND ACCESS



3.INITIALISED THE EC2 INSTANCE

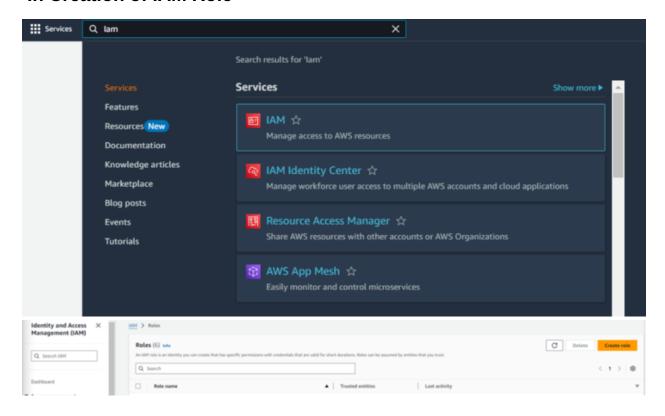






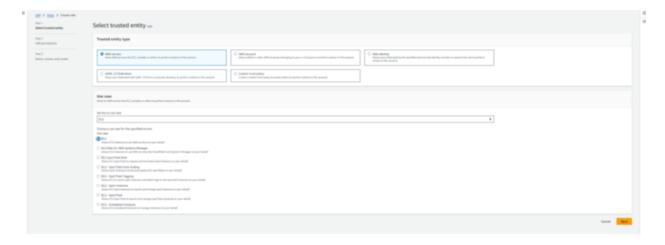
4.CREATED THE IAM ROLE

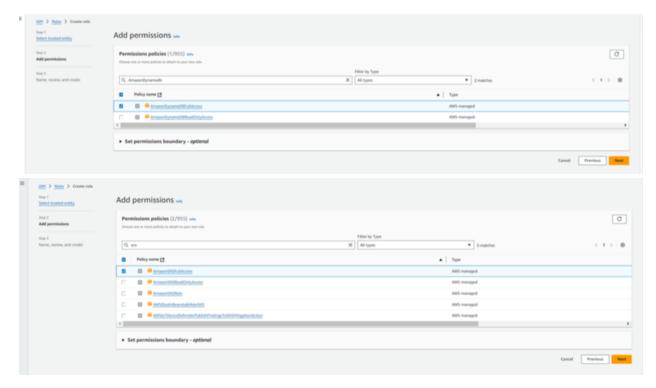
In Creation of IAM Role











• Trusted entity type: AWS service

• Use case: EC2

Attached permission:

• By ModifyIAM Role AmazonDynamoDBFullAccess





5.CREATED DYNAMODB TABLES

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

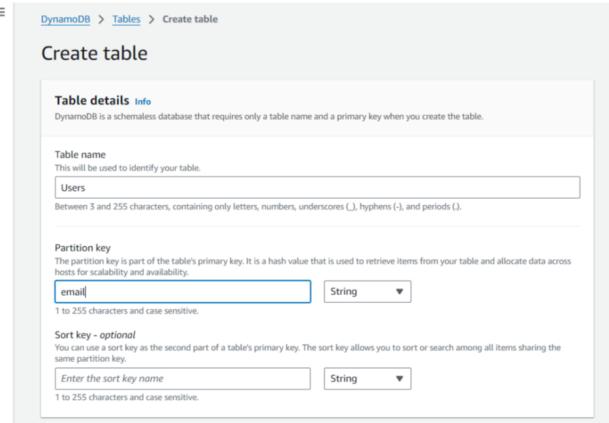
Cancel

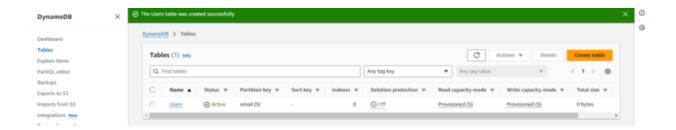
Create table





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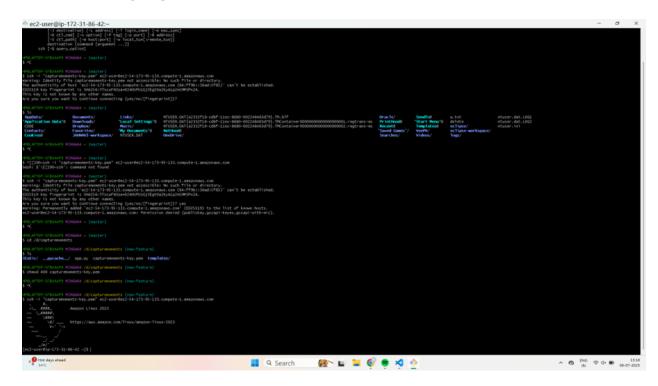








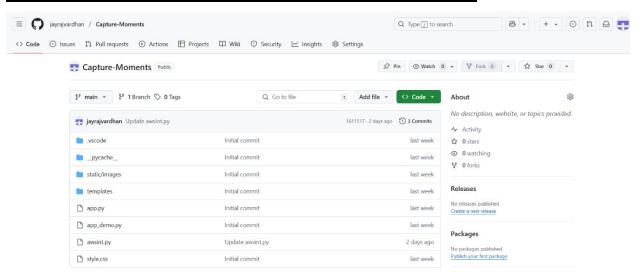
6.STARTED INSTANCE IN GITBASH AND INSTALL NECESSARY DEPENDENCIES







UPLOADED GITHUB REPOSITORY FILES

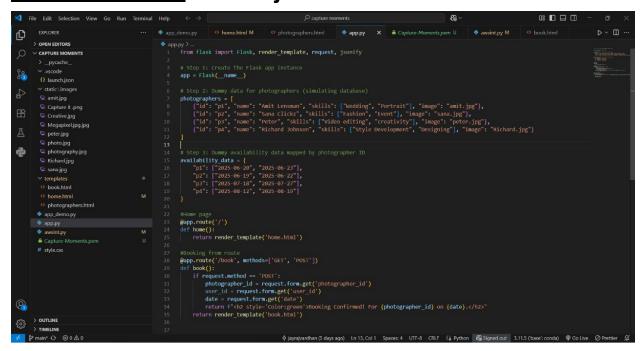






CAPTURE MOMENTS BOOKING SYSTEM PROJECT

MILESTONE 1: The Project Files in VISUAL STUDIO







MILESTONE 2: WORKING OF book.html code

<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

- Book a Photographer
- photographer ID
- Your User ID
- Date





MILESTONE 3: INTRODUCTION OF THE WEBSITE AT home.html

```
<html lang="en">
      .button:hover {
      background-color: #f1c40f;
       color:□ #2c3e50;
       transform: scale(1.05);
       box-shadow: 0 8px 16px  pgba(0, 0, 0, 0.3);
      /* Responsive */
     @media (max-width: 600px) {
       h1 {
         font-size: 2.5rem;
       .button {
        width: 100%;
          max-width: 240px;
   <h1>Capture Moments</h1>
  You can explore platform for booking professional photographers!
   <div class="buttons">
    <a href="/book" class="button">Book a Photographer</a>
<a href="/show-photographers" class="button">View Photographers</a></a>
```

- It visualise the welcome home page of capture moments project
- It visualise the welcome home page of capture moments project





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





MILESTONE 6:

Working Of AWS.int:

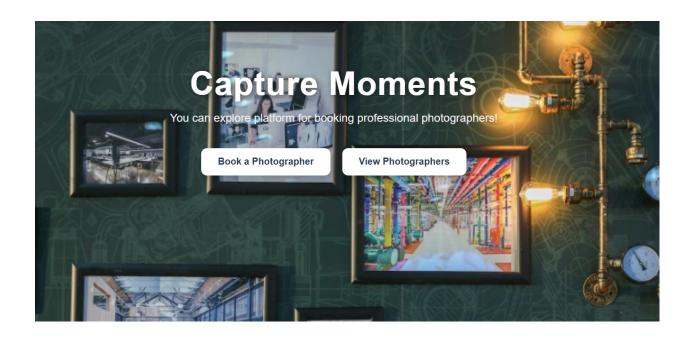
- 1. Deploys the actual website
- 2. It helps to install boto3 application





FINAL OUTPUT OF THE CAPTURE MOMENTS WEBSITE

HOME PAGE







BOOKING PHOTOGRAPHERS PAGE

Book a Photograph	er
Photographer ID	
Your User ID	
dd-mm-yyyy	
Book Now	



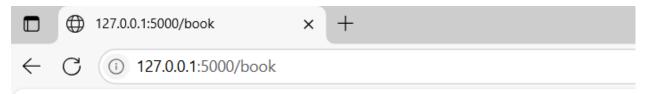


Process of booking phographers

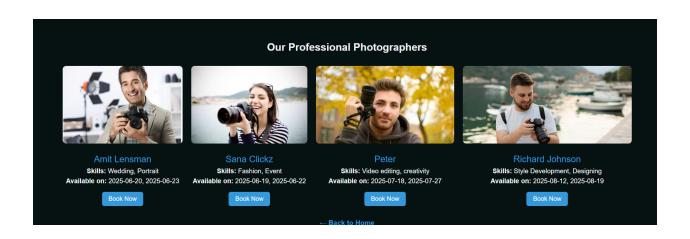
Book a Photographer	
p3	
12367	
20-08-2025	:::
Book Now	







Booking Confirmed! For p3 on 2025-08-20.







CONCLUSION OF THE CAPTURE MOMENTS BOOKING SYSTEM PROJECT

- "Capture Moments" project stands as a modern solution that bridges photographers and clients through a seamless, cloud-powered booking platform.
- Using the power of AWS EC2 and DynamoDB, supported by a Flask web framework, this system ensures flexibility, scalability, and reliability.
- From launching an EC2 instance, configuring security, to developing a user-friendly interface — every step reflected a deeper understanding of cloud infrastructure and fullstack development.
- This journey wasn't just about deploying code; it was about building a meaningful, accessible application that connects people to capture life's most precious memories
- As this project concludes, it opens doors for future enhancements, new features, and wider adoption — making every moment count, one booking at a time.