Title:Vacation Planner using Cloud Tech

Team Members:

Nikhitha Sadanala(Student Id: 16335566)

Samarasimha Reddy Kota(Student Id: 16336264)

Susmitha Kolla(Student Id: 16330355)

Hema Nagini Matta(Student Id: 16347557)

Roles & Responsibilities:

Nikhitha is responsible to develop login & registration pages with validations using Angular.After validating the user, application will be redirected to the home page which includes tabs like About, Contact Us, Logout.

Samar is responsible for creating a Mongo database for application which will be used to store all the collections.And he also created backEnd API to store new user details in MongoDB.

Susmitha is responsible for backend API's using Node JS to validate input request.She is also responsible for deploying the application in Heroku.

Hema is responsible for integrating the external API(Travel API), so that the results will be displayed in the home page using CSS.

Motivation/Purpose:

The motivation for creating a Vacation Planner is to develop a web application which will make life easier for a traveler planning to explore new destinations within the time available. A complete, user-friendly platform that assists tourists in trip planning with locations and discovering unusual activities would be necessary.Vacation Planner project or application also be developed with the aim of promoting sustainable travel practices and encouraging travelers to save time for planning.

Technologies Used:

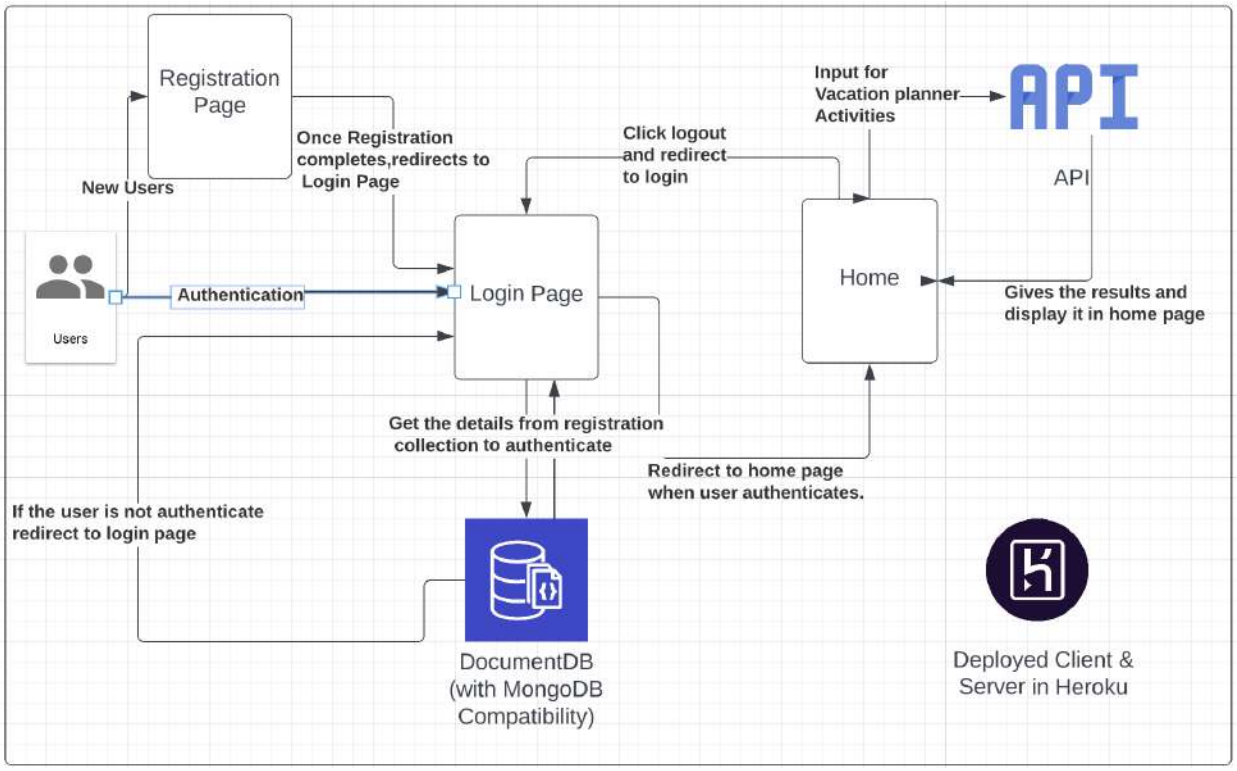
Cloud Platform: Heroku for its broad variety of cloud services and scalability.

Frontend Development: Angular,Typescript is used for front-end development to create a responsive and dynamic user experience.

Backend Development: Node.js for server-side development.

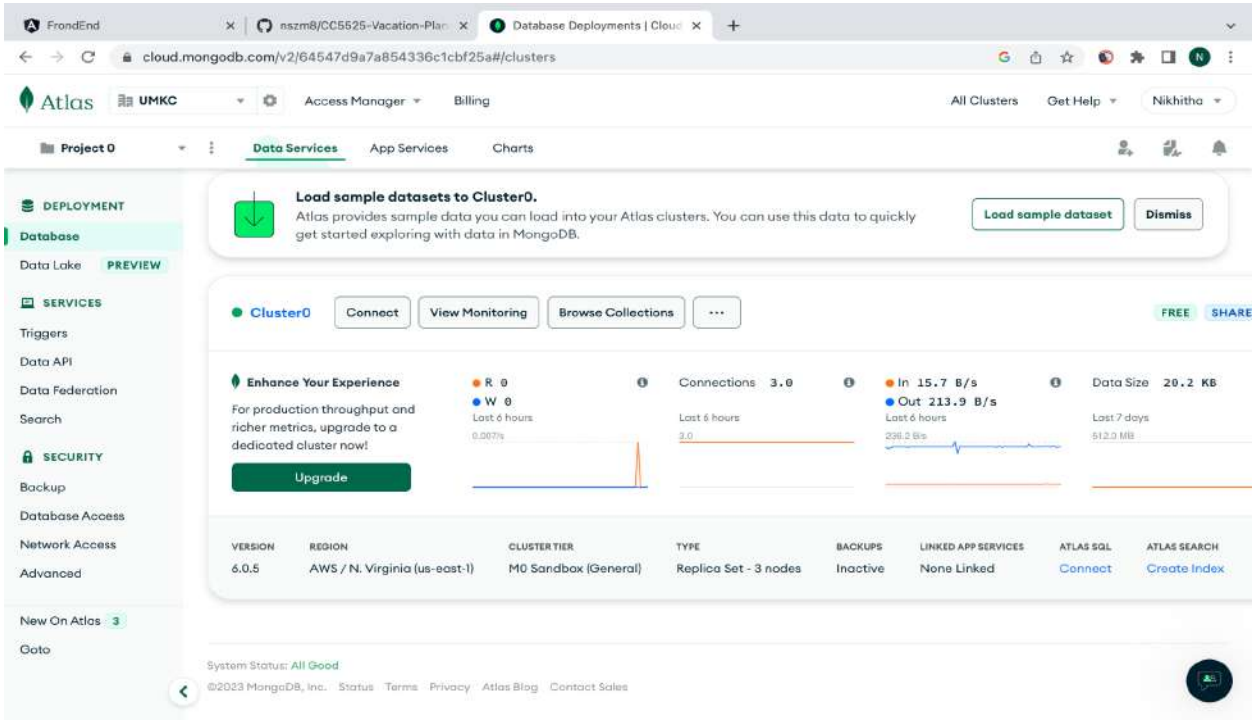
Database: Mongo Database

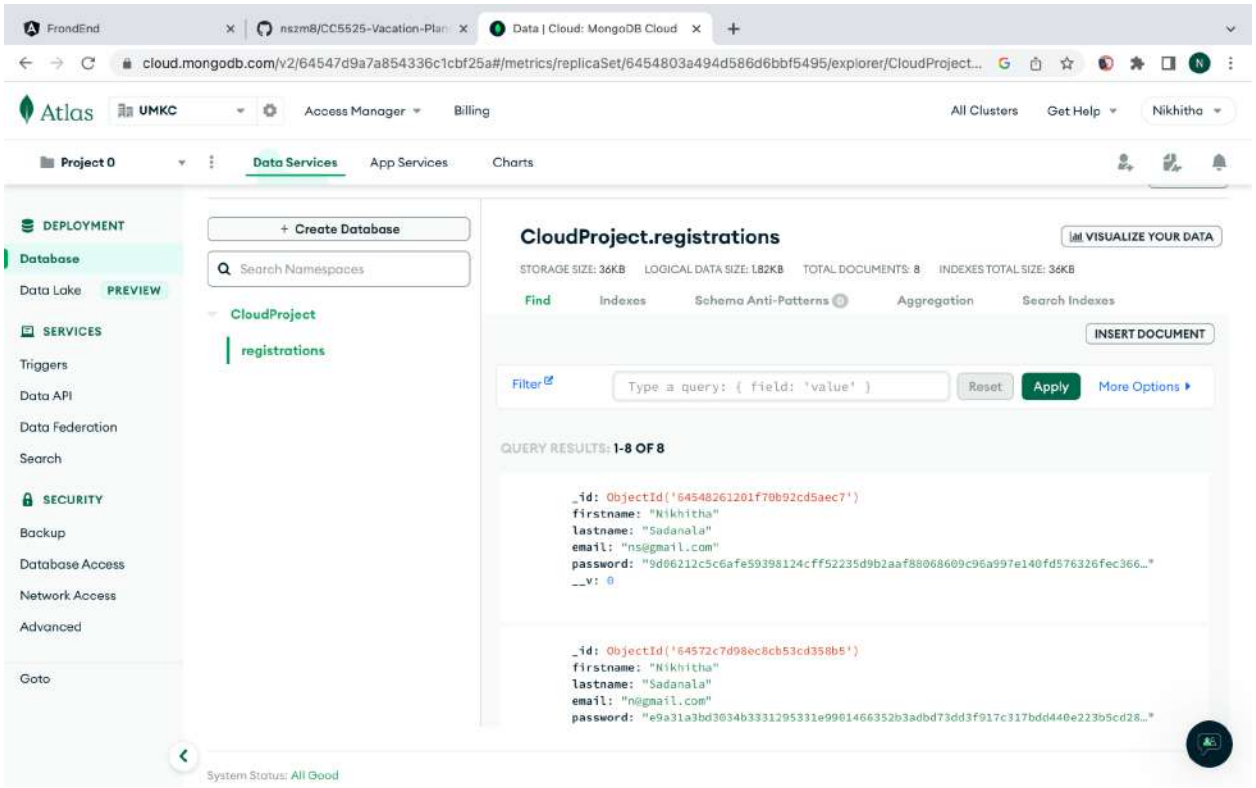
System Architecture:



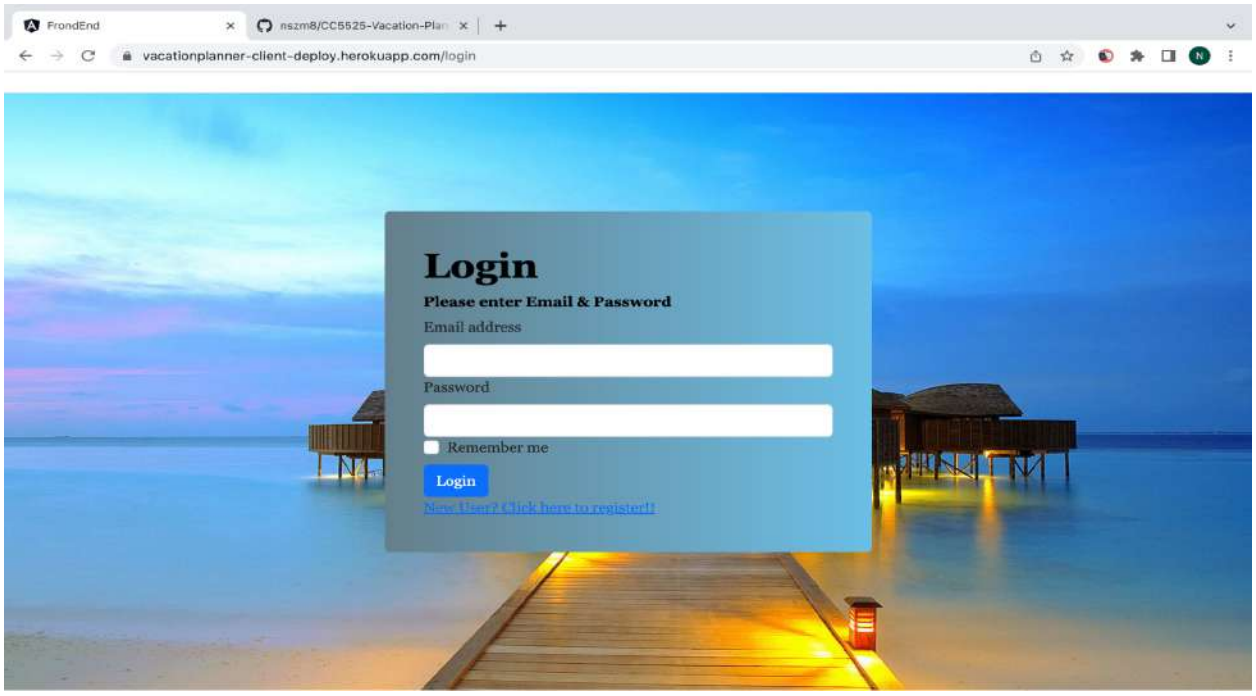
Features:(Screenshots added)

Mongo Atlas: Created the Mongo Cloud database and integrated it with the Vacation Planner application to store the required collections.

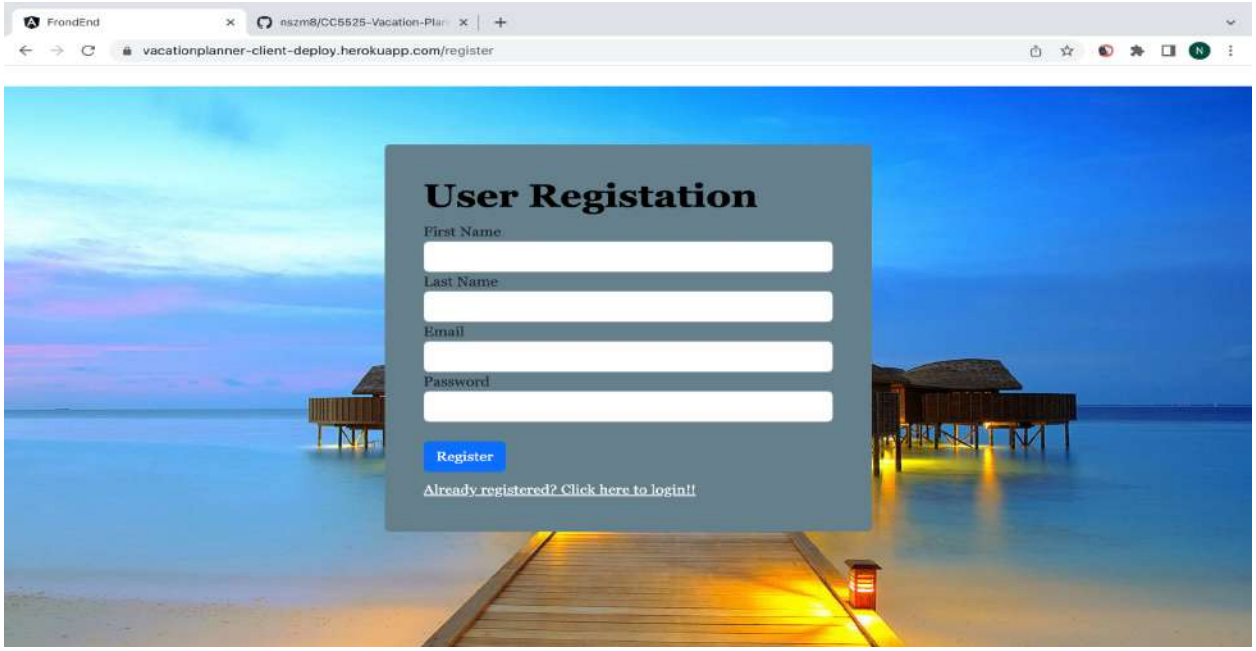




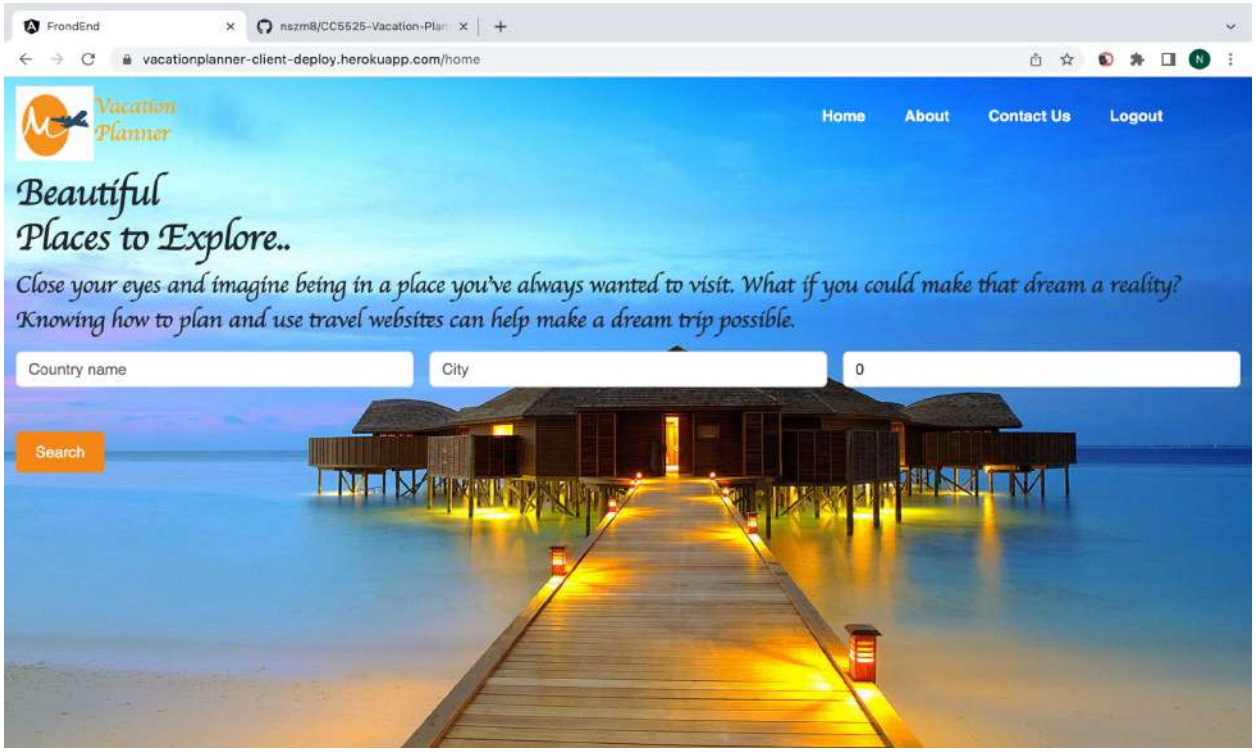
Login page:User can login with his email address and password.We have added the validations like if we give invalid email or password application will not give access.

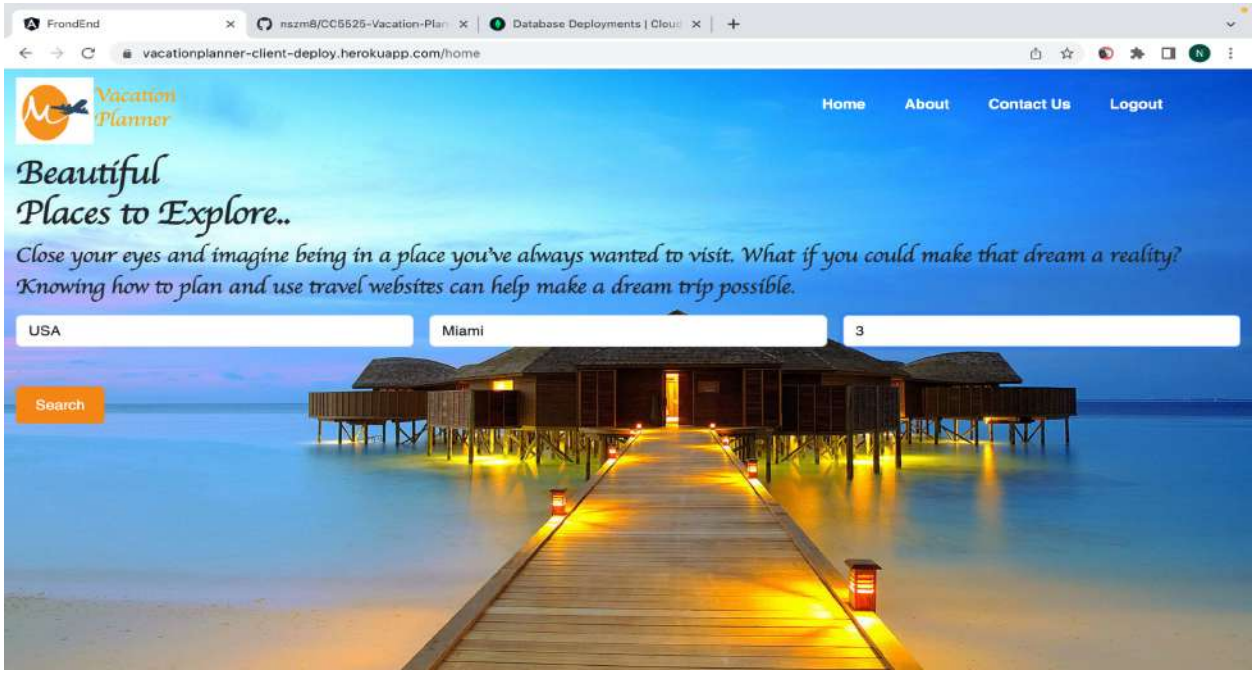


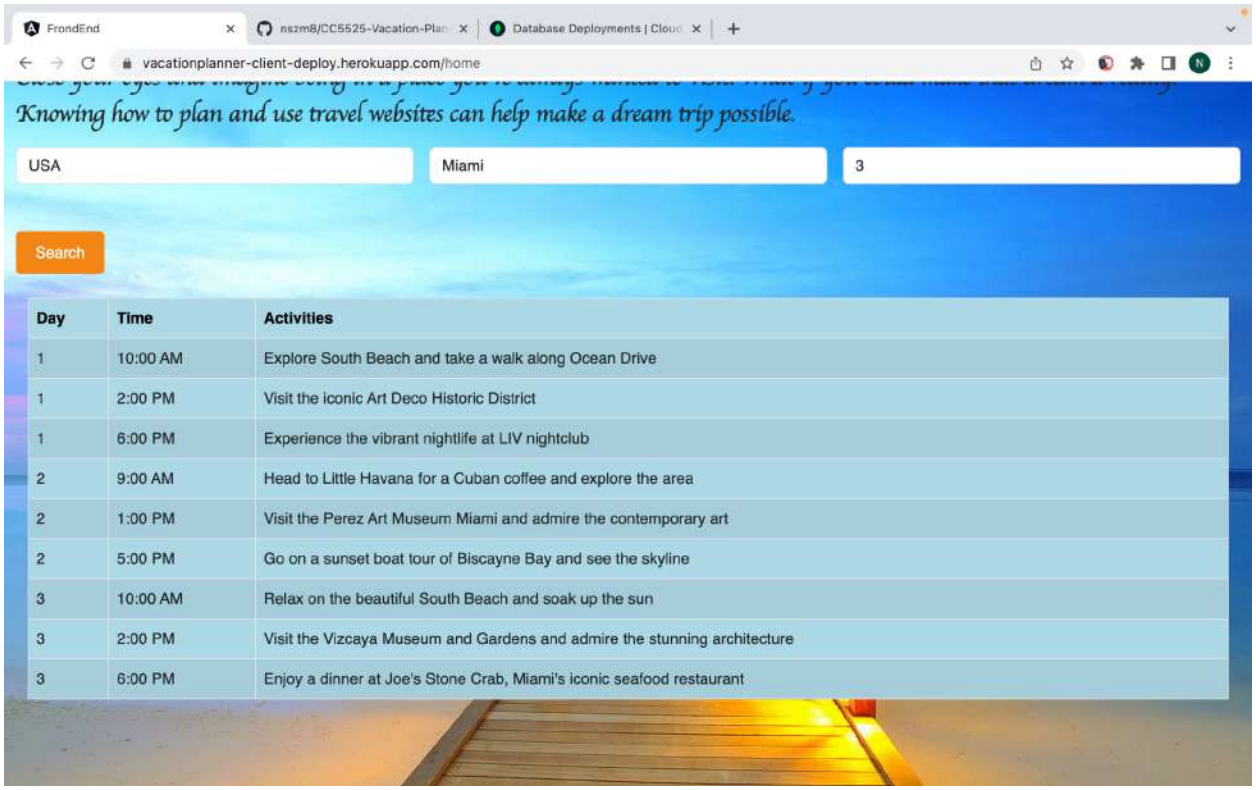
Registration page: Here,the user can register themselves by giving below details. After clicking the register button, the details provided by the user will be stored in the Register collection in Mongo cloud DB.For security purposes we are encrypting and storing the password.



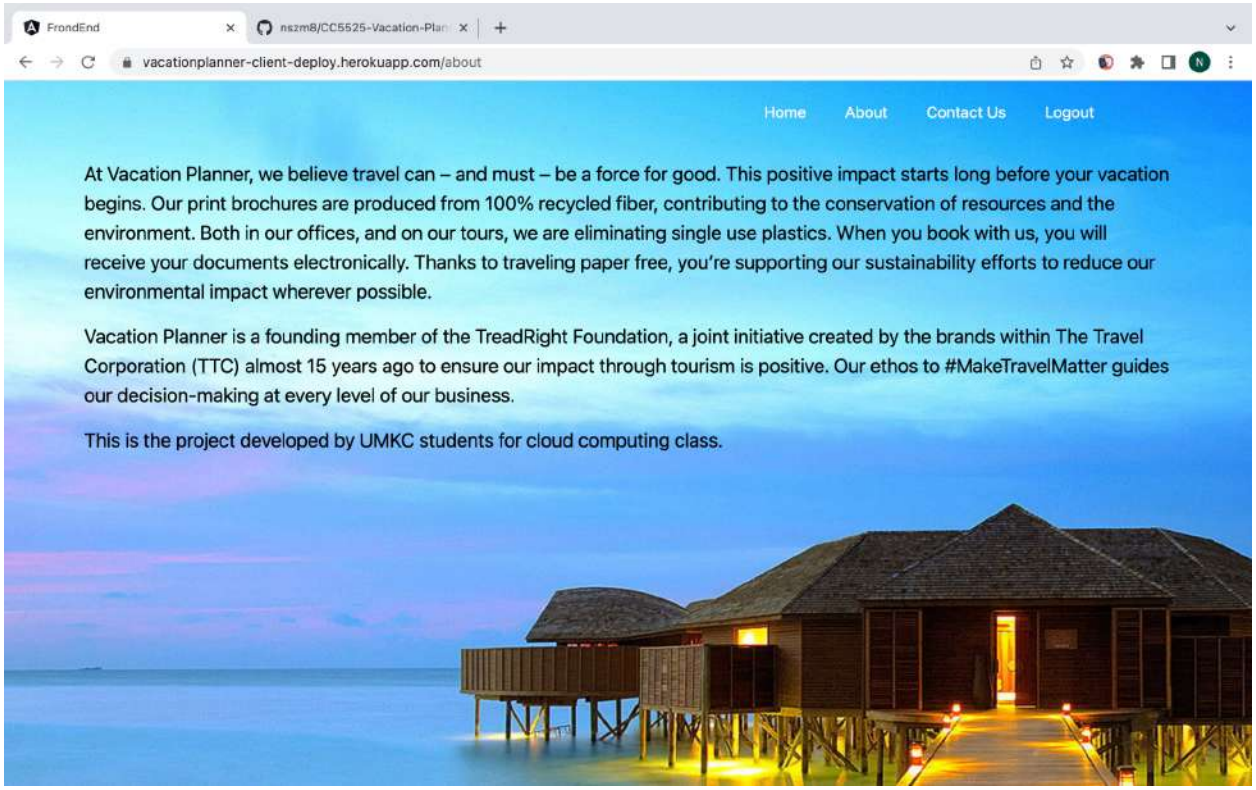
Home Page: This page contains tabs for About,Contact and Logout pages.Here the user enters the Country name ,City & Number of days details and clicks the ‘Search’ button. Based on the input provided, the vacation planner will display the planned activities with time prepared for them.We are using external API(rapid API) to get the planned activities for the given input request.



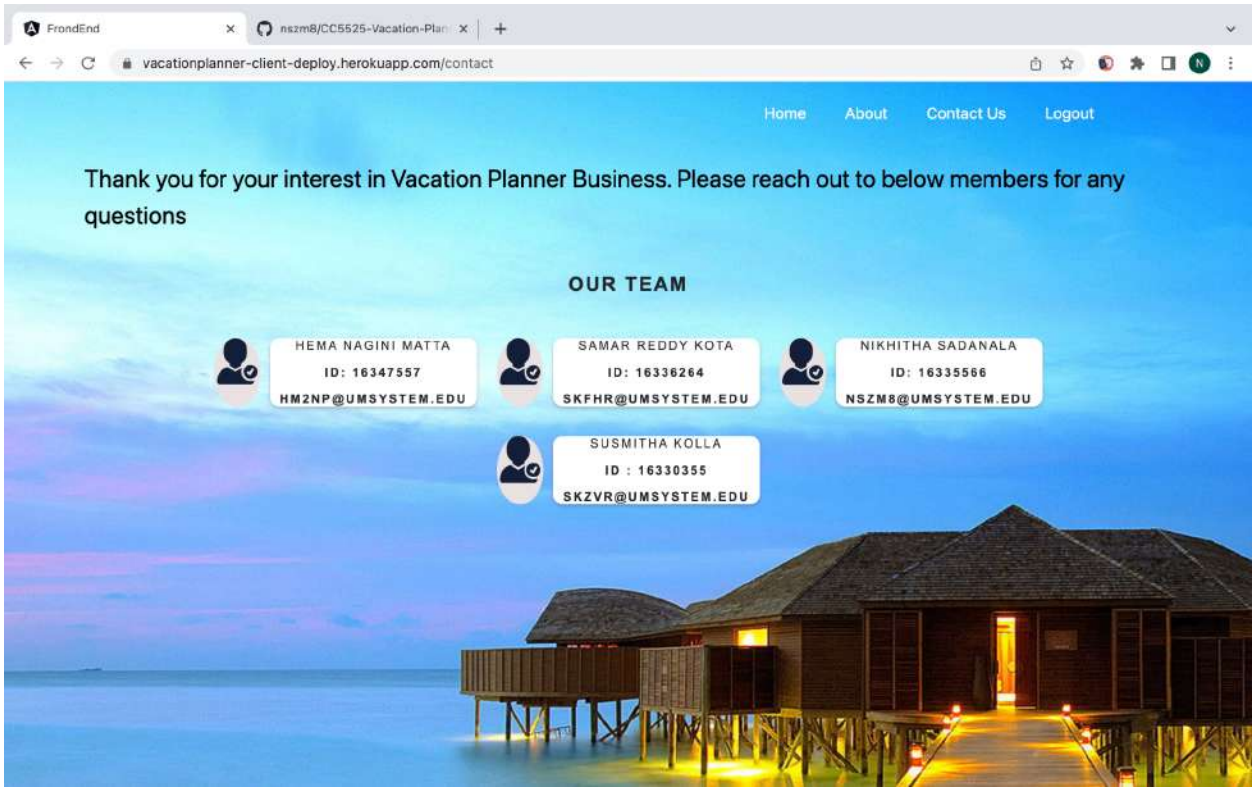




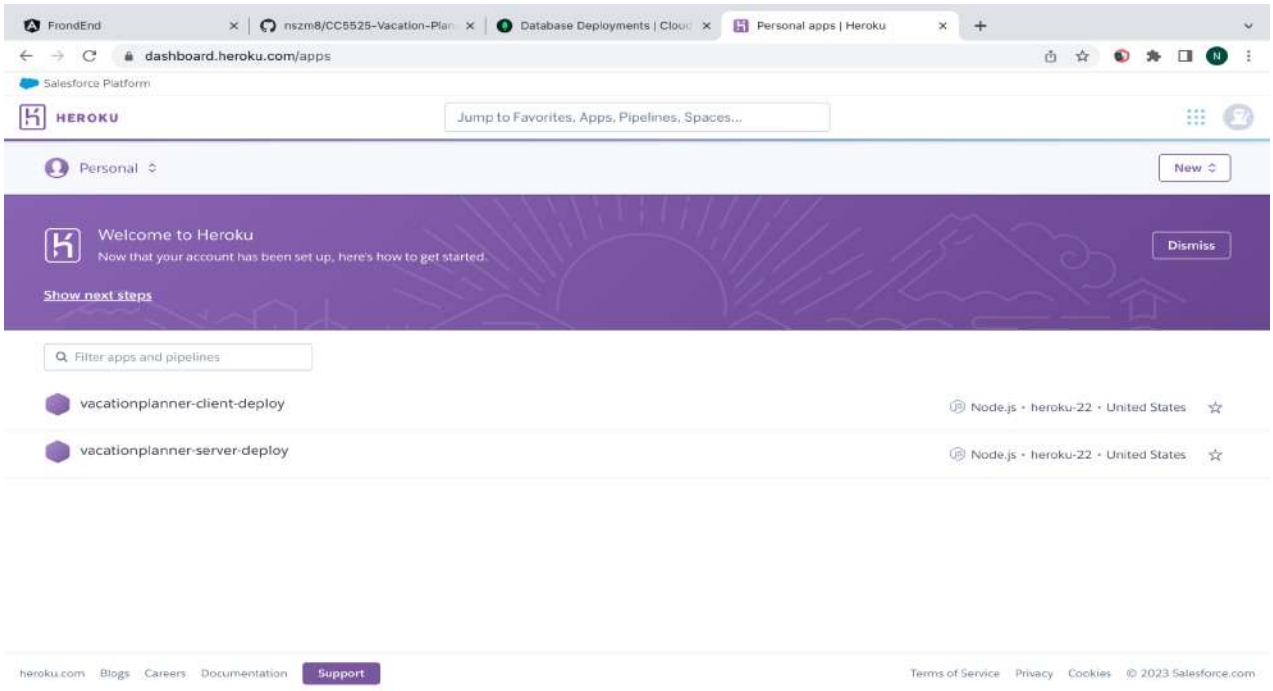
About Page: The about page contains the information about Vacation Planner.

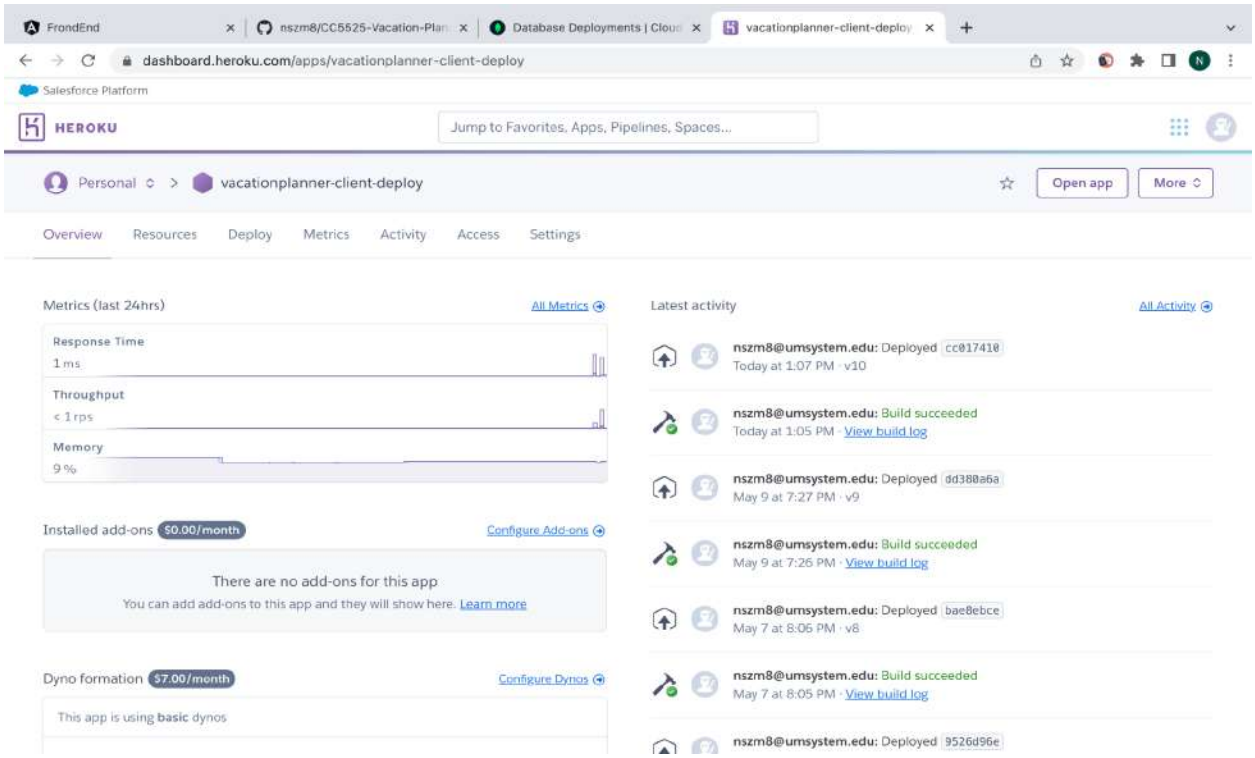


Contact Page: The Contact Us page contains the details of team members and email ids.



Heroku : We have used Heroku to deploy the website.Both client and server code are deployed.




FrondEnd
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Database Deployments | Cloud
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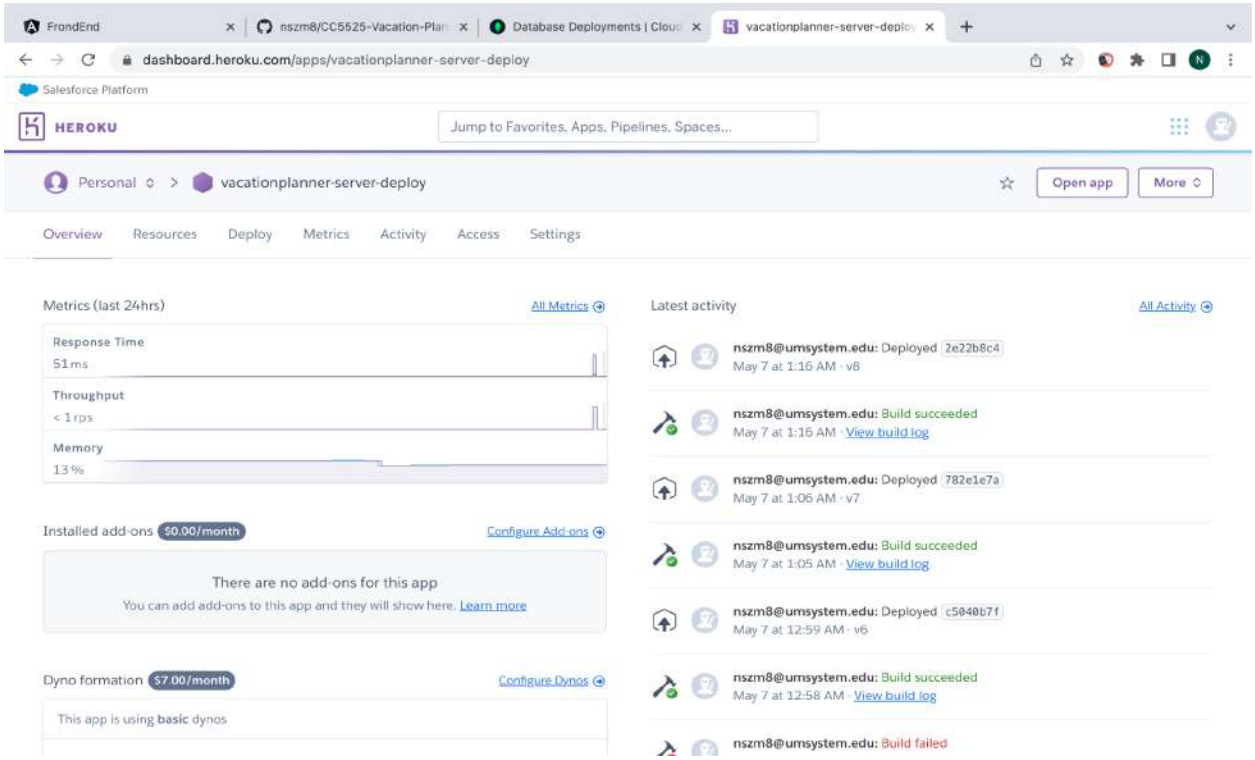
dashboard.heroku.com/apps/vacationplanner-client-deploy
Salesforce Platform
HEROKU
Jump to Favorites, Apps, Pipelines, Spaces...
Personal > vacationplanner-client-deploy
Open app
More
Overview
Resources
Deploy
Metrics
Activity
Access
Settings
Metrics (last 24hrs)
All Metrics
Response Time
1 ms
Throughput
< 1 rps
Memory
9 %
Installed add-ons $0.00/month
Configure Add-ons
There are no add-ons for this app
You can add add-ons to this app and they will show here. Learn more
Dyno formation $7.00/month
Configure Dynos
This app is using basic dynos
Latest activity
All Activity
nszm8@umsystem.edu: Deployed cc017410
Today at 1:07 PM · v10
nszm8@umsystem.edu: Build succeeded
Today at 1:05 PM · View build log
nszm8@umsystem.edu: Deployed dd380a6a
May 9 at 7:27 PM · v9
nszm8@umsystem.edu: Build succeeded
May 9 at 7:26 PM · View build log
nszm8@umsystem.edu: Deployed bae8ebce
May 7 at 8:06 PM · v8
nszm8@umsystem.edu: Build succeeded
May 7 at 8:05 PM · View build log
nszm8@umsystem.edu: Deployed 9526d96e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Jump to Favorites, Apps, Pipelines, Spaces...
Personal > vacationplanner-server-deploy
Open app
More
Overview
Resources
Deploy
Metrics
Activity
Access
Settings
Metrics (last 24hrs)
All Metrics
Response Time
51 ms
Throughput
< 1 rps
Memory
13 %
Installed add-ons $0.00/month
Configure Add-ons
There are no add-ons for this app
You can add add-ons to this app and they will show here. Learn more
Dyno formation $7.00/month
Configure Dynos
This app is using basic dynos
Latest activity
All Activity
nszm8@umsystem.edu: Deployed 2e22b8c4
May 7 at 1:16 AM · v8
nszm8@umsystem.edu: Build succeeded
May 7 at 1:16 AM · View build log
nszm8@umsystem.edu: Deployed 782e1e7a
May 7 at 1:06 AM · v7
nszm8@umsystem.edu: Build succeeded
May 7 at 1:05 AM · View build log
nszm8@umsystem.edu: Deployed c5040b7f
May 7 at 12:59 AM · v6
nszm8@umsystem.edu: Build succeeded
May 7 at 12:58 AM · View build log
nszm8@umsystem.edu: Build failed

Steps to start the application:

1.Redirect to the backEnd folder and give **node serve.js** command to start the server.

2.Redirect to the frontEnd folder and give **ng serve** to start the client application.

3.Once the application starts,the user needs to create an account to login to the app.

4.After completing the registration, user can login with credentials.Here we have done the validations to check whether the user credentials are valid or not

5.Once a user clicks the login button, the application will check in the backEnd given username and password is valid or not.

6.If the user is valid, then login will be successful.Then user can proceed to give the input details Country,City, No of the days and clicks the Search button.

7.The application will display vacation plan activities corresponding to the Country,City, No of days.Here we are using an external api (Travel API) to get the details.

Heroku URL:

https://vacationplanner-client-deploy.herokuapp.com/login

Github URL:

Url: https://github.com/nszm8/CC5525-Vacation-Planner/tree/main

Demo Video URL:

video1980814866.mp4