

# Cloud Computing

## TECHNICAL REPORT

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## Executive Summary

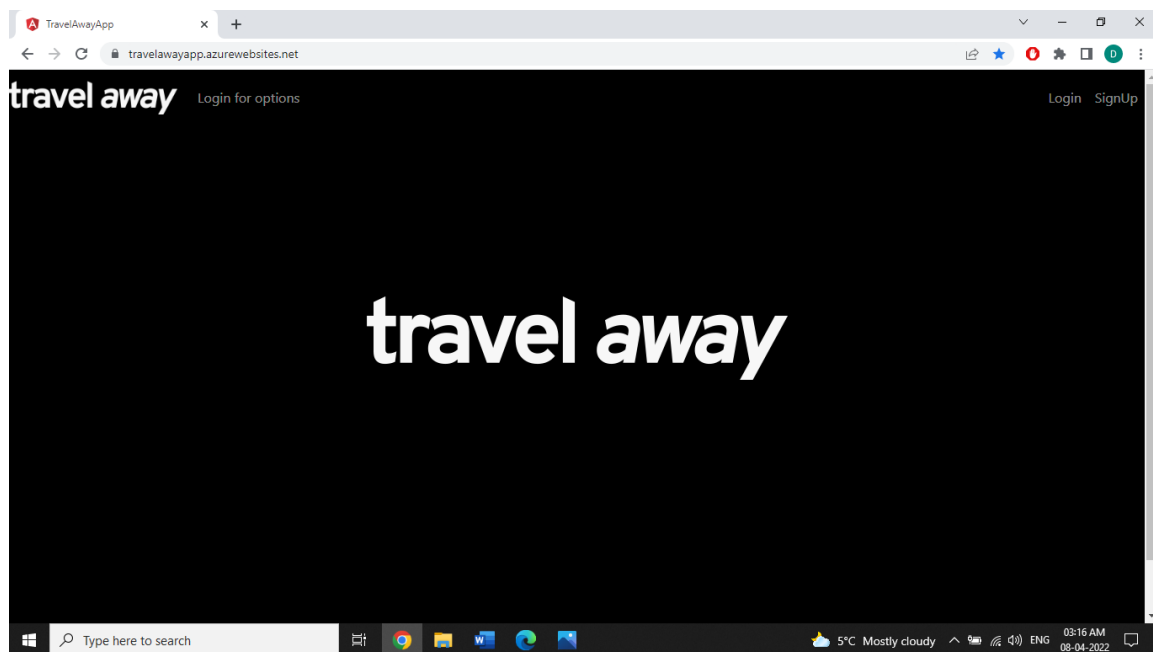
Our group has created a robust trip booking website, 'Travel Away'. Our website will help its users to book packages and will allow admin to create reports. This is created in two different sprints. We anticipate that this project will help the travel company to bring more traffic on their website and will be helpful for its customers to browse through and book various trip packages.

## Project Outline

'Travel Away' is angular based website will include a booking portal for the customers to book different packages and sub-packages. In the admin portal, admin will be able to generate reports about the bookings made on the website. The first page on the website will be login page where a customer or admin will login using their login ids. Other pages in the website will allow to view, book, add packages and bookings.

## Project Results

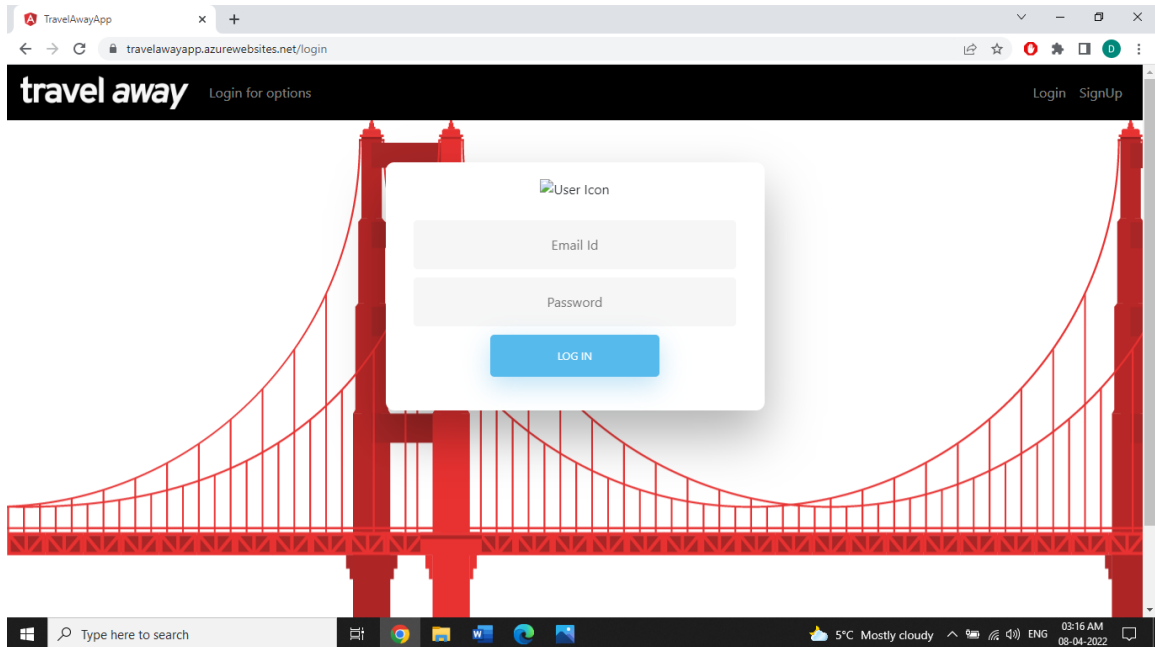
To create a webapp that provides travel booking services to their users and also gives admin its certain privileges to manage the website.



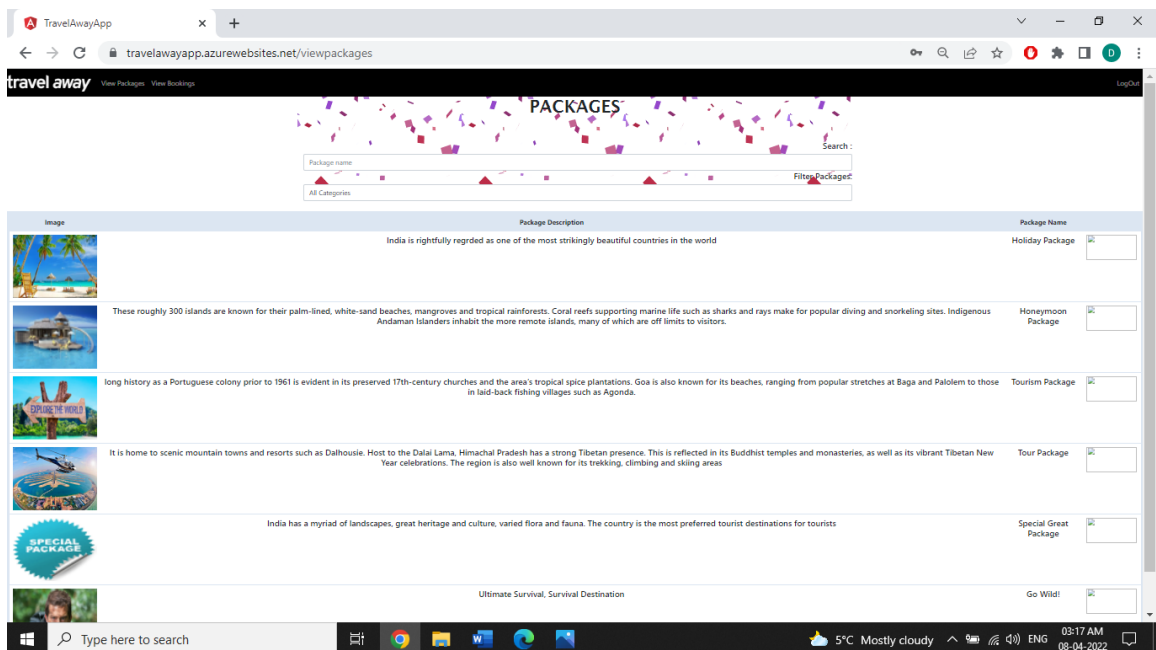
Website is angular with backend based on .net core. This website is divided into two parts which are discussed in detail below.

## 1. For Users

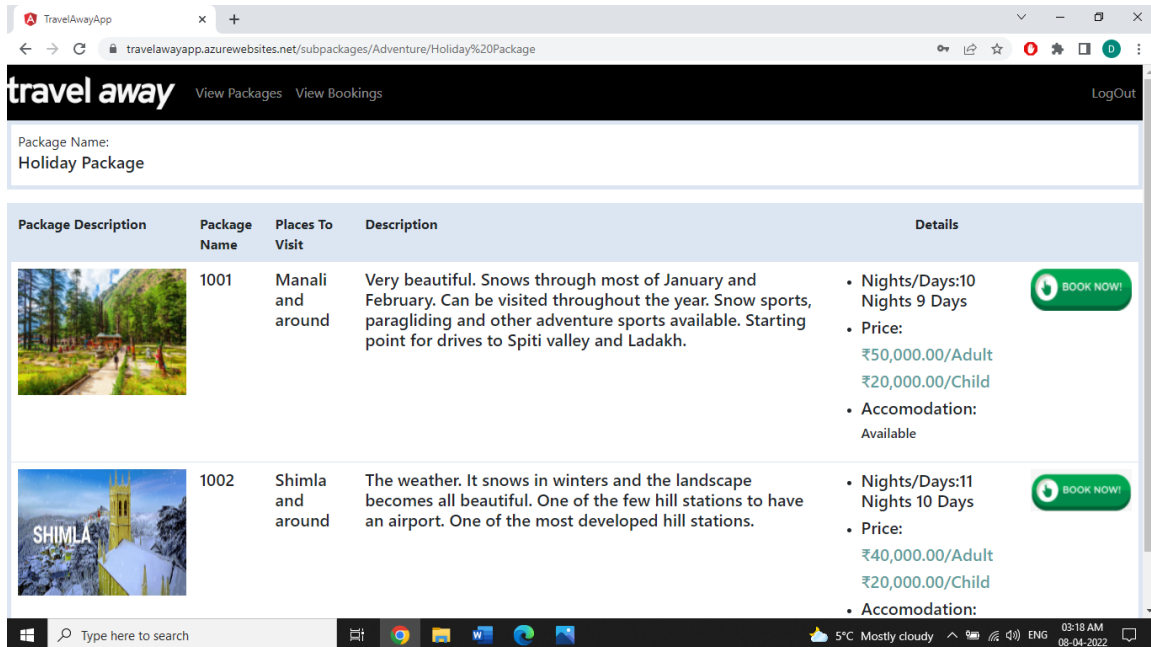
- It allows user to create an account.



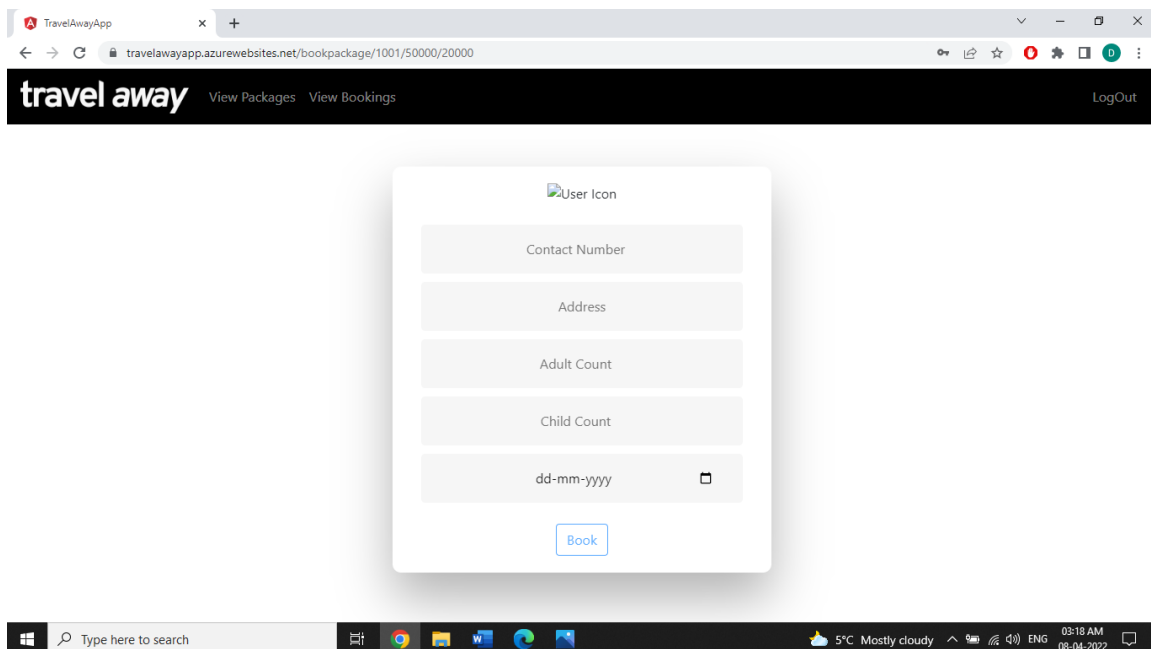
- Allow users to view package based on categories such as adventure, honeymoon, explore, etcetera.



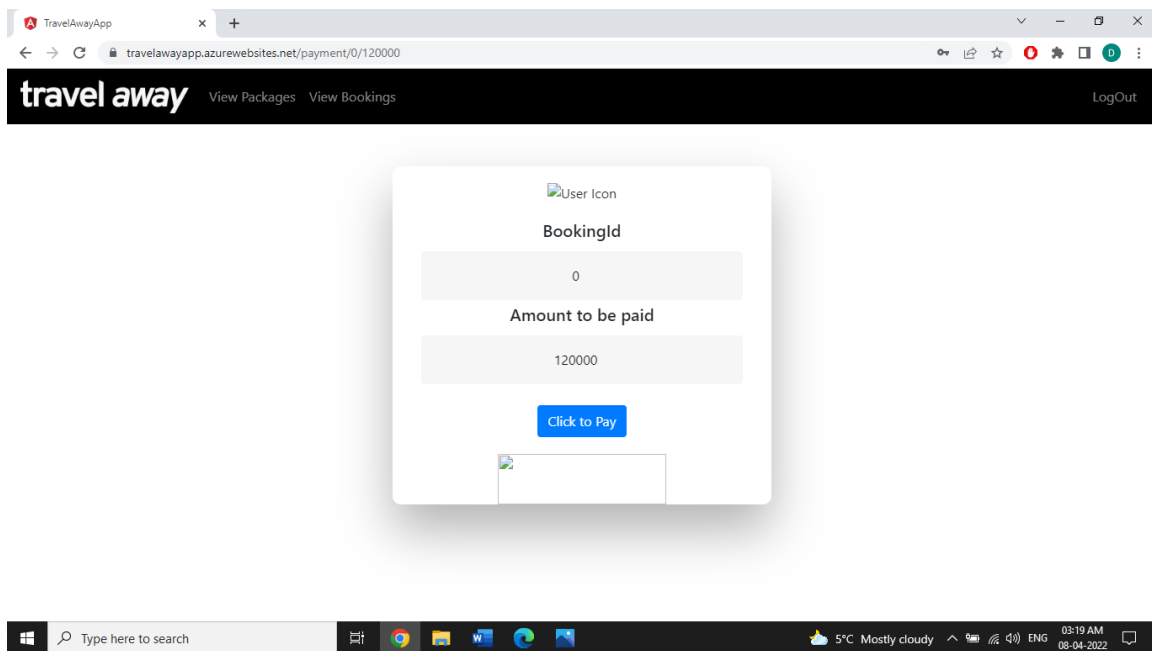
- It allows user to further choose the sub-package of that package type.



- User can enter the number of children and adults.

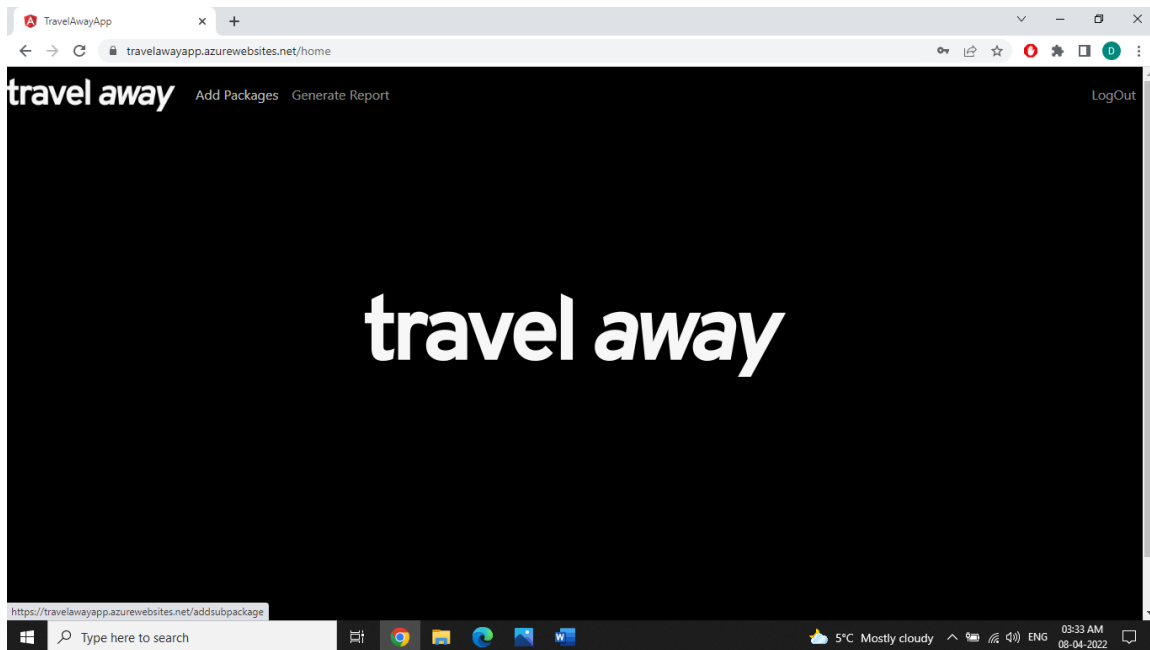


- Based on the information provided by the user package rate will be calculated and payment tab will be displayed.



- After payment users can view their booking from View booking page.

## 2. For Admin



- It will allow admin to add package.

TravelAwayApp

travelawayapp.azurewebsites.net/addsubpackage

travel away Add Packages Generate Report LogOut

### Add SubPackage

All fields are mandatory

Package Id

Package Category Id

Package Name

Sub Package Name(Add)

Image Url(Add)

Package Category Name

Places To Visit

Description

Days/Nights

Type here to search

5°C Mostly cloudy 03:33 AM 08-04-2022

- It will allow admin to generate report based on package name, category and month.

TravelAwayApp

travelawayapp.azurewebsites.net/generatereport

travel away Add Packages Generate Report LogOut

### Generate Report

Select Type of Report To Generate

-----select report type-----

-----select report type-----

Number Of Packages Available Based on category

Bookings Done Based On Package Name

Bookings Based On Month

Type here to search

5°C Mostly cloudy 03:34 AM 08-04-2022

- Once admin selects the category, a report will be generated showing the number of bookings made as per selected category.

TravelAwayApp

travelawayapp.azurewebsites.net/generatereport

travel away Add Packages Generate Report LogOut

## Generate Report

Select Type of Report To Generate

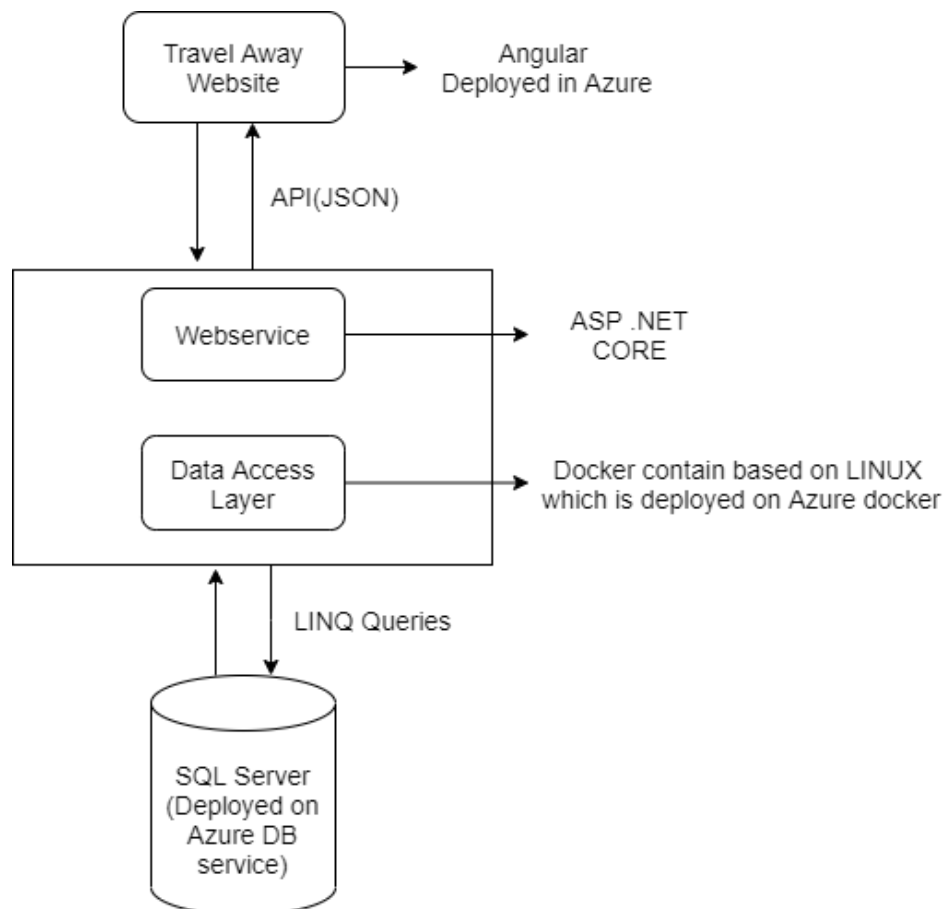
Number Of Packages Available Based on category

Package Category Name	Packages Available
Adventure	40
Nature	48
Religious	49
Village	44
Wild Life	50

Type here to search

5°C Mostly cloudy 03:38 AM 08-04-2022

## Website Architecture

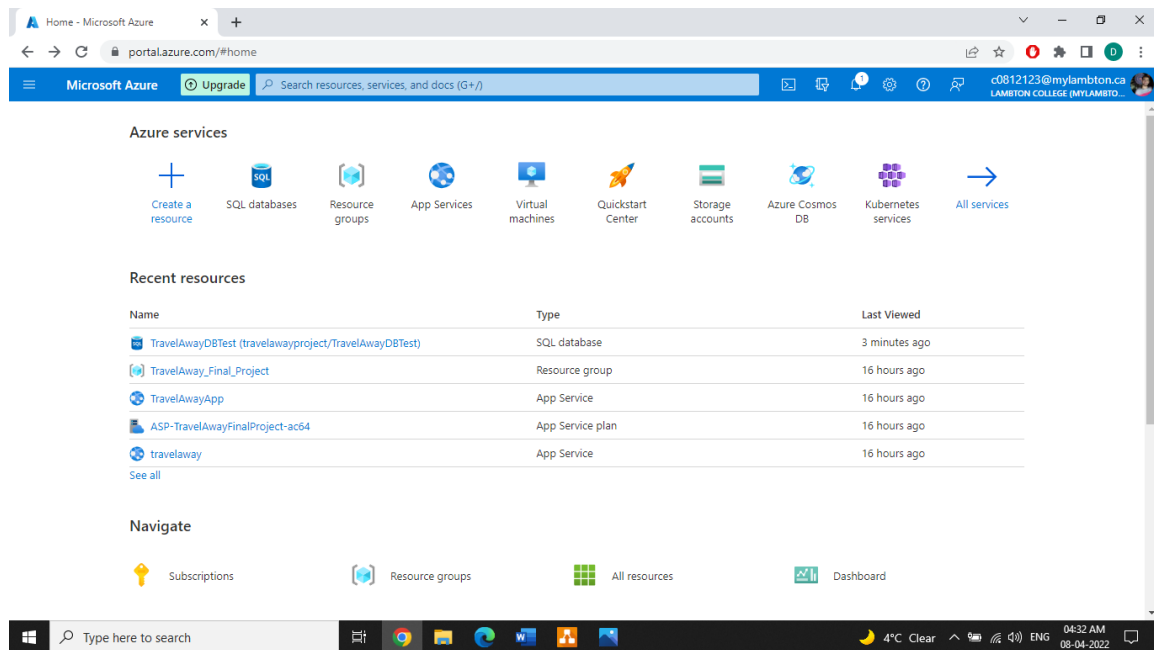


Main website: <https://travelawayapp.azurewebsites.net/>

Backend (API data):

<http://travelaway.azurewebsites.net/api/TravelAway/GetAllUserDetails>

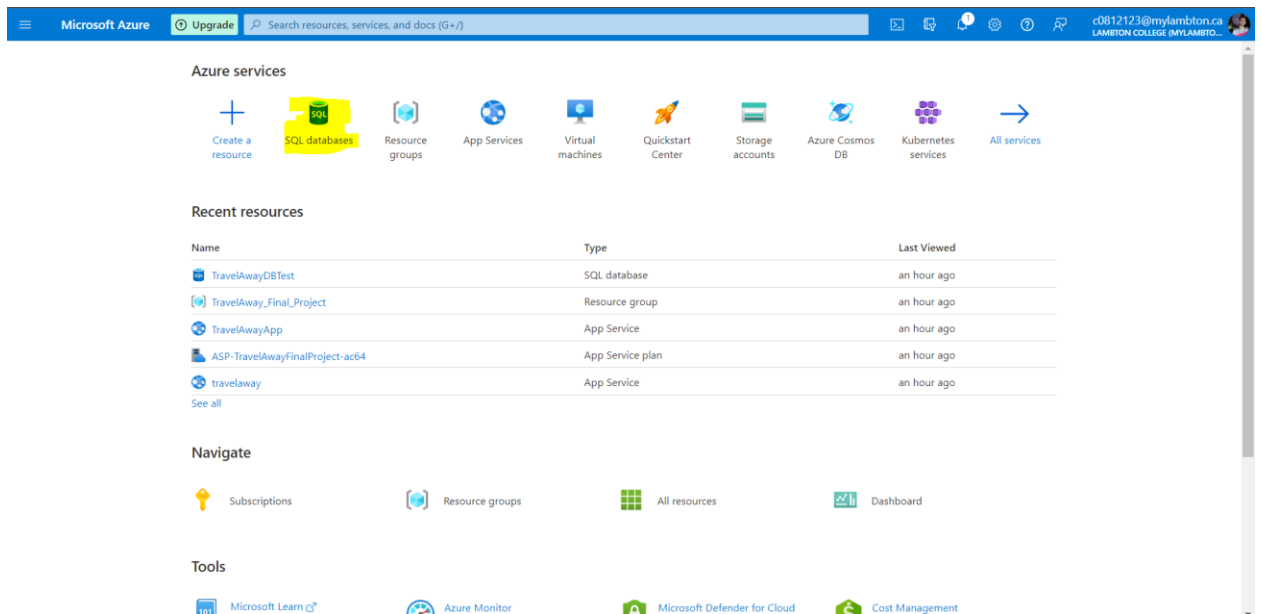
DB: travelawayproject.database.windows.net



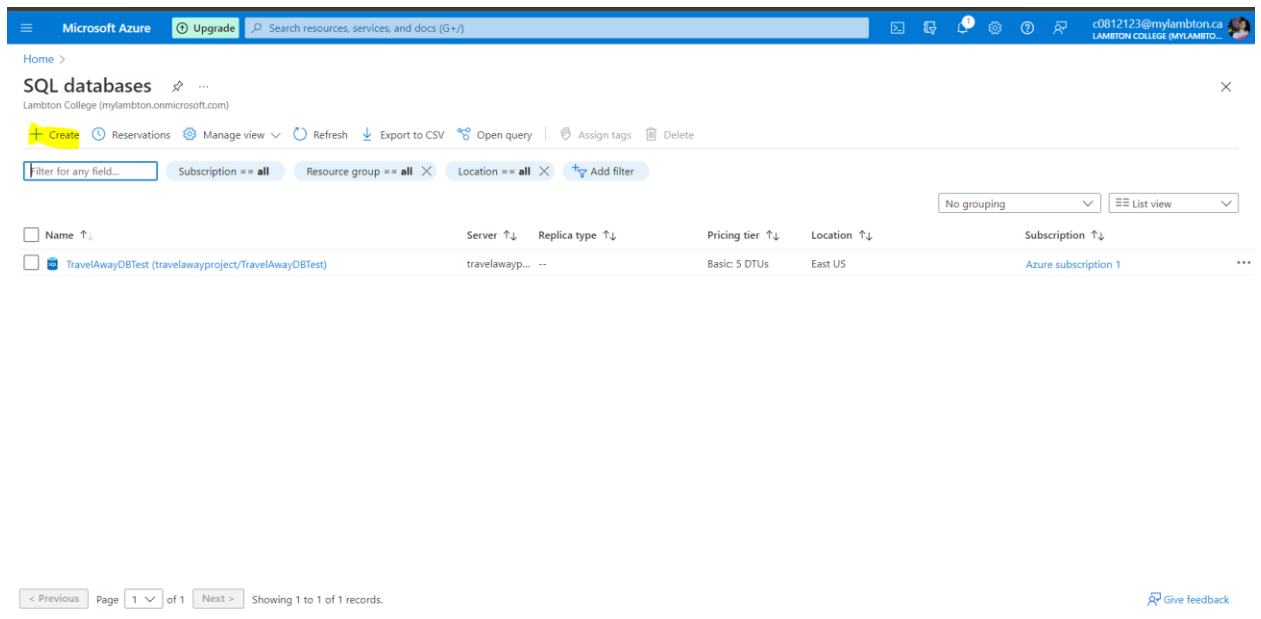
## Creating DB in Azure

1. Create an azure account.
2. For creating DB Service select the below:





### 3. Select option mentioned in the image:



#### 4. Enter the data as mentioned in the below image:

Search resources, services, and docs (G+J)

cd0612123@mylambton.ca  
LAMBTON COLLEGE (BYLAMBRO)

### Create SQL Database

Microsoft

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \*

Resource group \*   
[Create new](#)

#### Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name \*

Server \*   
[Create new](#)

Want to use SQL elastic pool? \* ☐ Yes ☒ No

Compute + storage \*   
10 DTUs, 250 GB storage  
[Configure database](#)

#### Backup storage redundancy

Choose how your PITR and LTR backups are replicated. Geo restore or ability to recover from regional outage is only available when geo-redundant storage is selected.

Backup storage redundancy ☐ Locally-redundant backup storage  
☐ Zone-redundant backup storage  
☒ Geo-redundant backup storage

Selected value for backup storage redundancy is Geo-redundant backup storage. Note that database backups will be replicated to the...

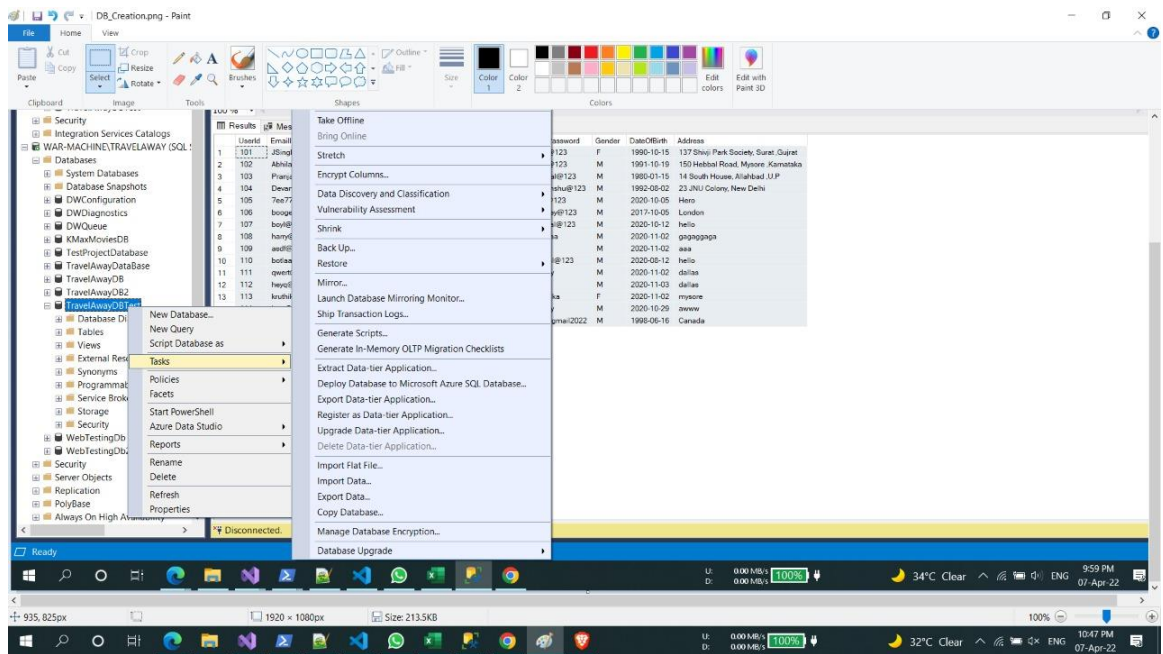
[Review + create](#) [Next: Networking >](#)

#### 5. Review and create

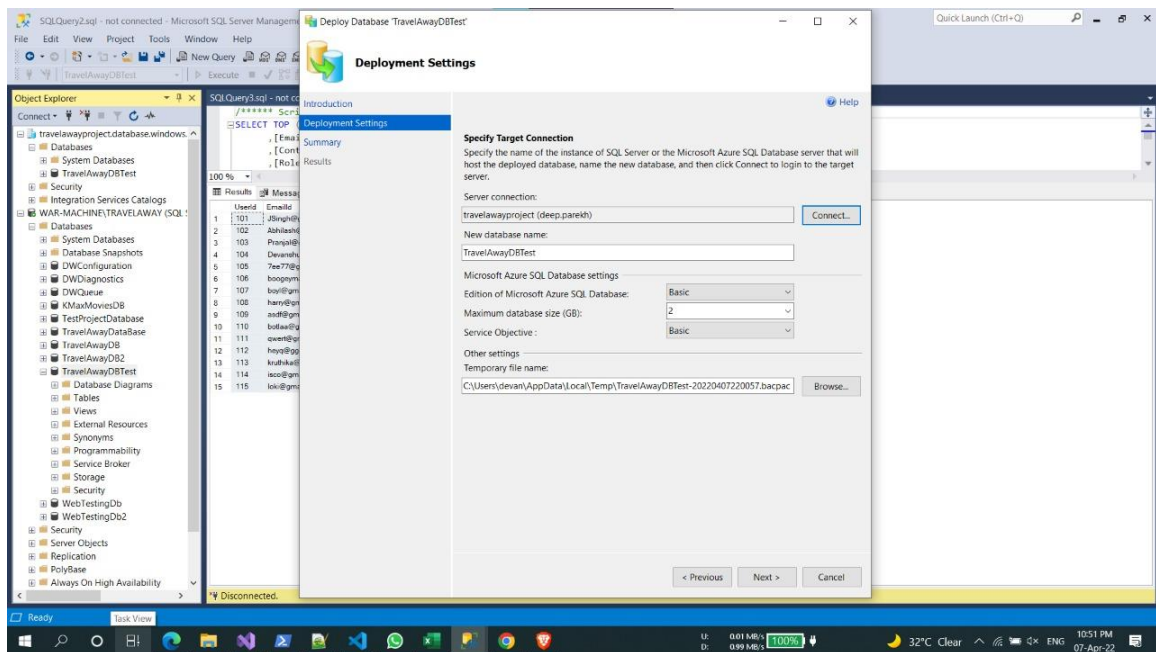
6. In this DB settings, go to firewall settings and in that enter service name and IP 0.0.0.0 to 255.255.255.255 → this will allow all IPs to connect to the DB

## Deployment Process

1. Created local DB.
2. Right Click on that  $\Rightarrow$  Tasks  $\Rightarrow$  Enter connection name - travelawayproject.database.windows.net

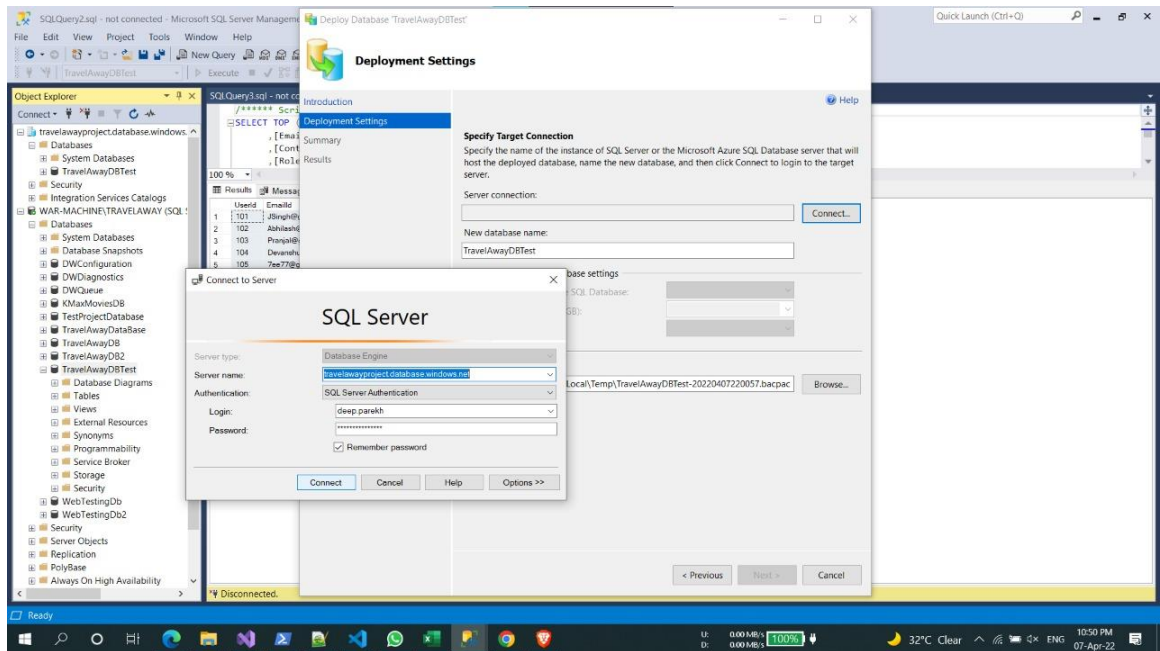


### 3. Enter credentials and chose default plan with 2 GB

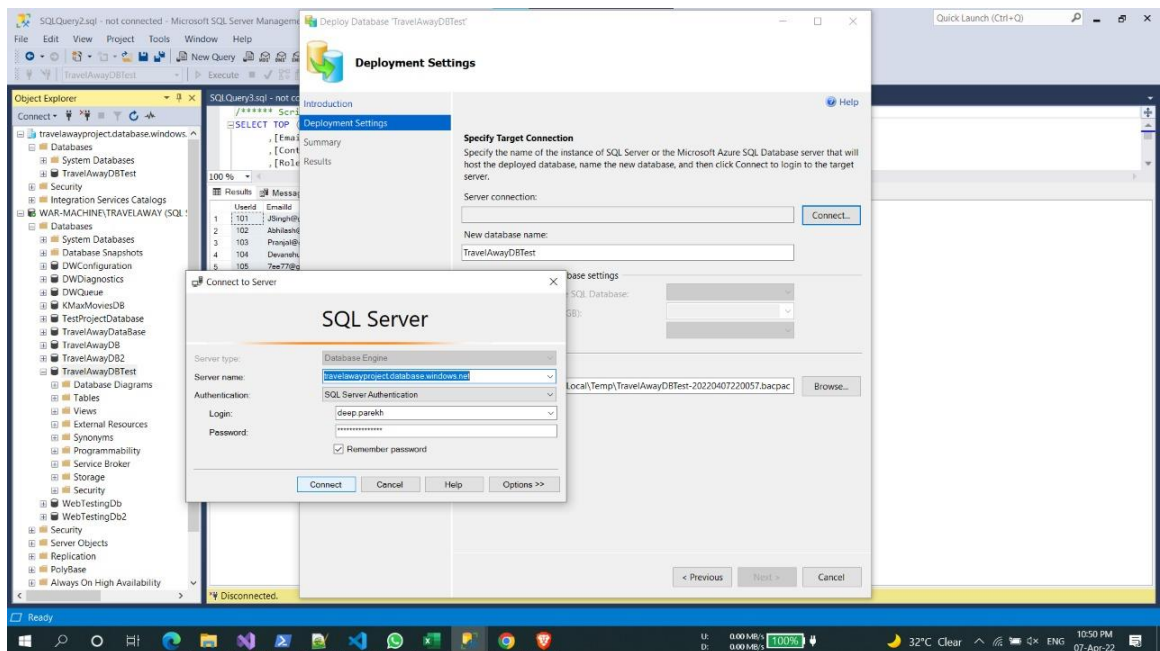


In SSMS

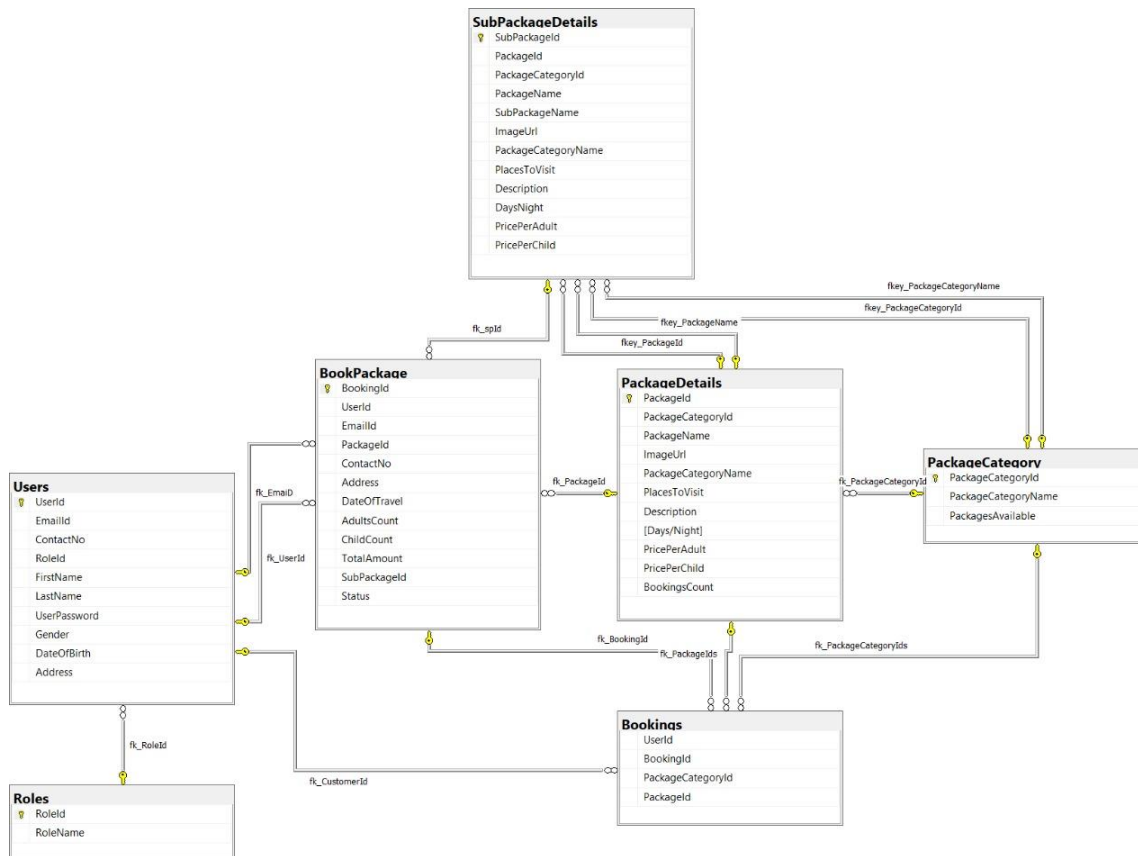
4. Click connect in object-explorer  $\Rightarrow$  Enter the DB-site name:  
travelawayproject.database.windows.net



5. Enter credentials and connect



# Relational Schema



## User Details (Note: RoleId 1 is for admin and RoleId 2 is for users)

Userld	Emailld	ContactNo	Roleld	FirstName	LastName	UserPassword	Gender
101	JSingh@gmail.com	8529637410	1	Jyoti	Singh	Jyoti@123	F
102	Abhilash@gmail.com	8412967570	1	Abhilash	Reddy	Abhi@123	M
103	Pranjal@gmail.com	9876543214	1	Pranjal	Mishra	Pranjal@123	M
104	Devanshu@gmail.com	7878787878	1	Devanshu	Singhavi	Devanshu@123	M
105	7ee77@gmail.com	1020101010	2	befty	uiy	brfty@123	M
106	boogeyman@gmail.com	8745898989	2	boogey	Man	boogey@123	M
107	boyl@gmail.com	2811555	2	har	sha	pranjal@123	M
108	harry@gmail.com	7412500000	2	heyyy	harry	aaaaaa	M
109	asdf@gmail.com	11233444	2	asdf	qwer	aaaa	M
110	botlaa@gmail.com	2815545	2	har	sha	pranal@123	M
111	qwerty@gmail.com	744411557	2	qwerty	reddy	qwerty	M
112	heyq@ggg.com	1456742	2	aaaab	aaaqqq	aaa	M
113	kruthika@gmail.com	9849907877	2	Kruthika	Yogaraj	Kruthika	F
114	isco@gmail.com	1100220011	2	Cisco	webex	qwerty	M
115	loki@gmail.com	5844552114	2	Loki	Odin	loki@gmail2022	M