



## **Microsoft Azure Mini Project**

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## **ONLINE BUS BOOKING**

### **Problem Statement:-**

Online Bus Booking System

Video link :-

<https://drive.google.com/file/d/1d-Vdomp2knUDvvGytNzJ7hIuBFoIj5ax/view?usp=sharing>

Template link:-

[https://drive.google.com/file/d/1uOVvZpeq0D6XcOCUToBUD-091L018u1H/view?usp=drive\\_link](https://drive.google.com/file/d/1uOVvZpeq0D6XcOCUToBUD-091L018u1H/view?usp=drive_link)

Project url link:- [busbookings.azurewebsites.net](http://busbookings.azurewebsites.net)

Github link :- <https://github.com/sakshiiiii-1/BusbookingSystem>

## **Overview**

### **Theory:-**

Online Bus Booking System is Web Based application. That works with in centralised network. It Provides facility to reserved seats, different type of enquiry which need an instant and quick reservation. Buses may be used for scheduled bus transport, scheduled coach transport, school transport, private hire, or tourism; promotional buses may be used for political campaigns and others are privately operated for a wide range of purposes, including rock and pop band tour vehicles.

This project is modularized as the following:

- **Management of Route**
- **Trip Details**
- **Bus Details**
- **Bus Ticketing**

## **1. Management of Routes**

This module include information about how we can Manage the routes for a particular bus services so In the case of Route management module we must know the details about route number, number of stops ,fare stages and running time of the particular bus more over we want to manipulate and stored these information successfully.

## **2. Trip information**

Each journey is identified as a trip. Each ticket must contain the trip no so that calculation of passenger can be done easily. Here in this section we want to know start time and route no of the bus this information can be manipulate and stored successfully.

## **3. Bus Detail**

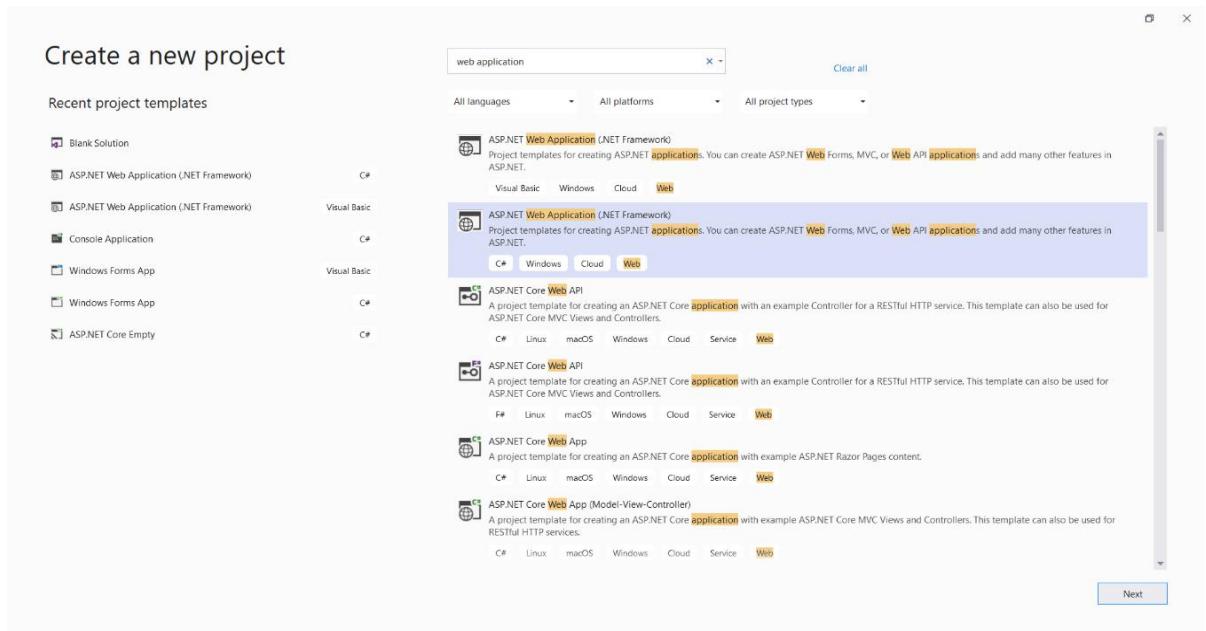
In this module all bus details are stored and manipulated, in bus detail module contains minimum charge, type, depot, fare increment, bus number, and passenger's states (child or adult) are manipulate and stored.

## **4. Bus Ticketing**

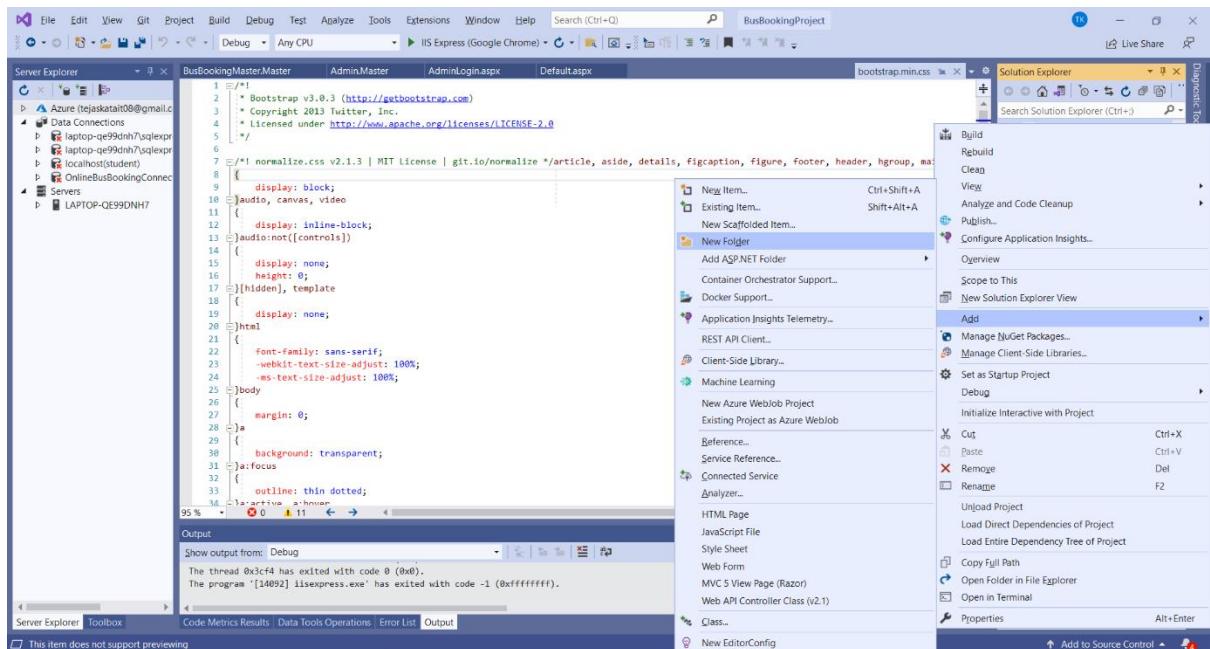
Ticketing is the most important module in this Project which uses all the tables together and calculates fare for the passengers. Venting the tickets is done using the route number, bus type, beginning stop, end stop, ticket number, persons(Adult/child)rate, date and time also we want to print the all these information. In order to do the calculation data has to be pulled out from stops, bus, trip and route. Number of passengers & the states are entered by the Venter and to produce the tickets.

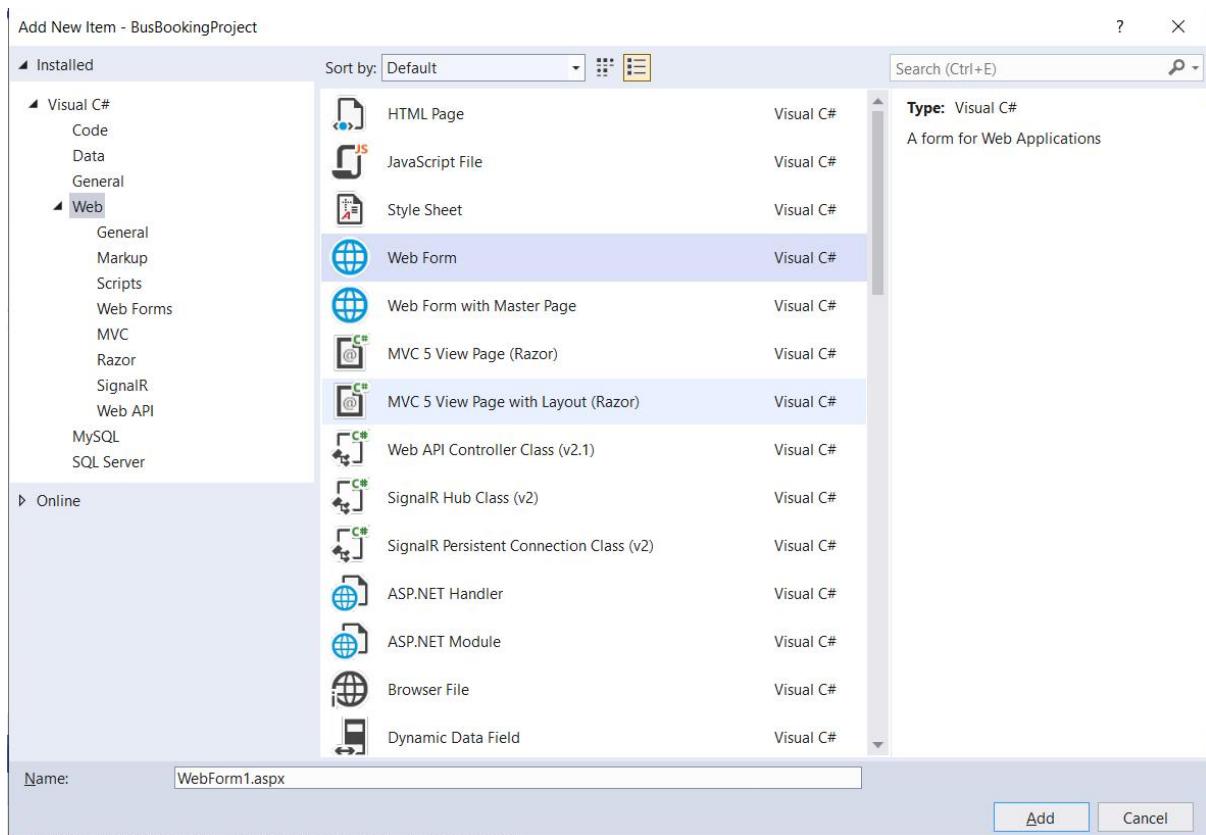
### **Steps:**

1. In Visual Studio select new project
2. Select ASP.Net web application template
3. Name the project as BusBookingProject



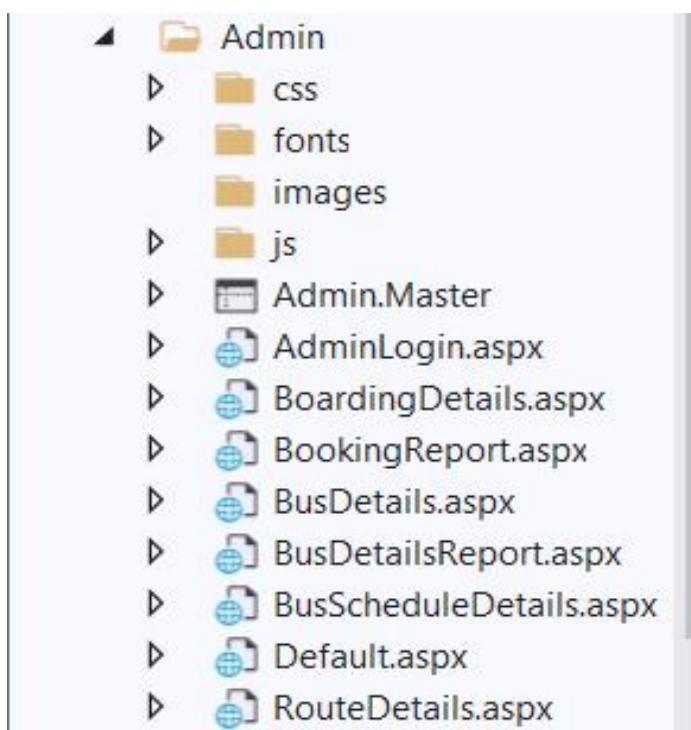
4. Now we create a separate Admin module in which we create all functionality of Admin.
5. Add new Folder name Admin in Project.



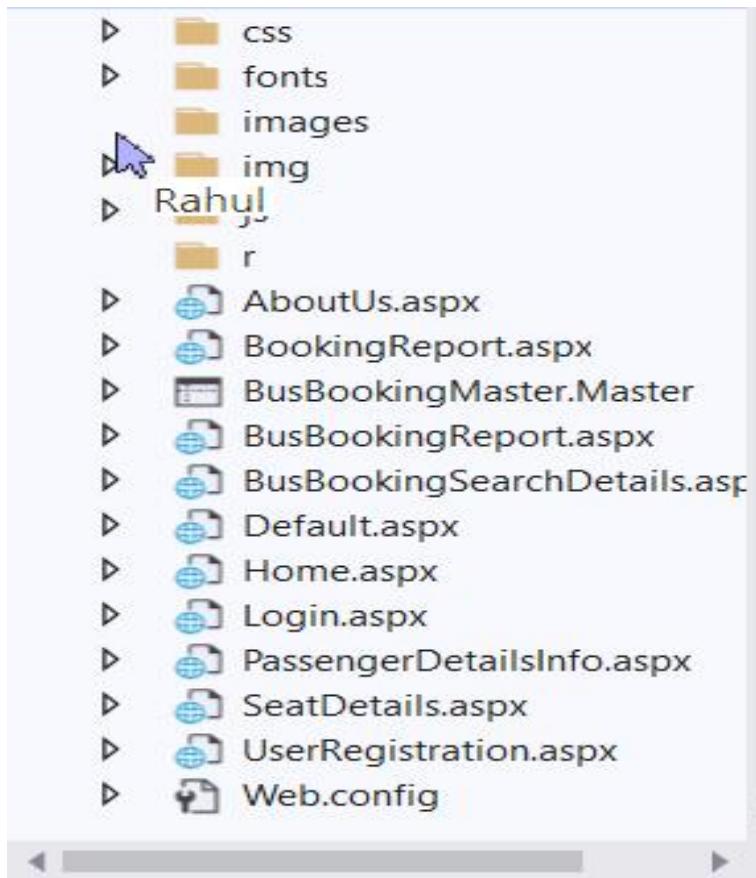


6. As shown in the above photos follow these steps to create new webform and folders

7. Create folders and webforms in Admin section as follows:



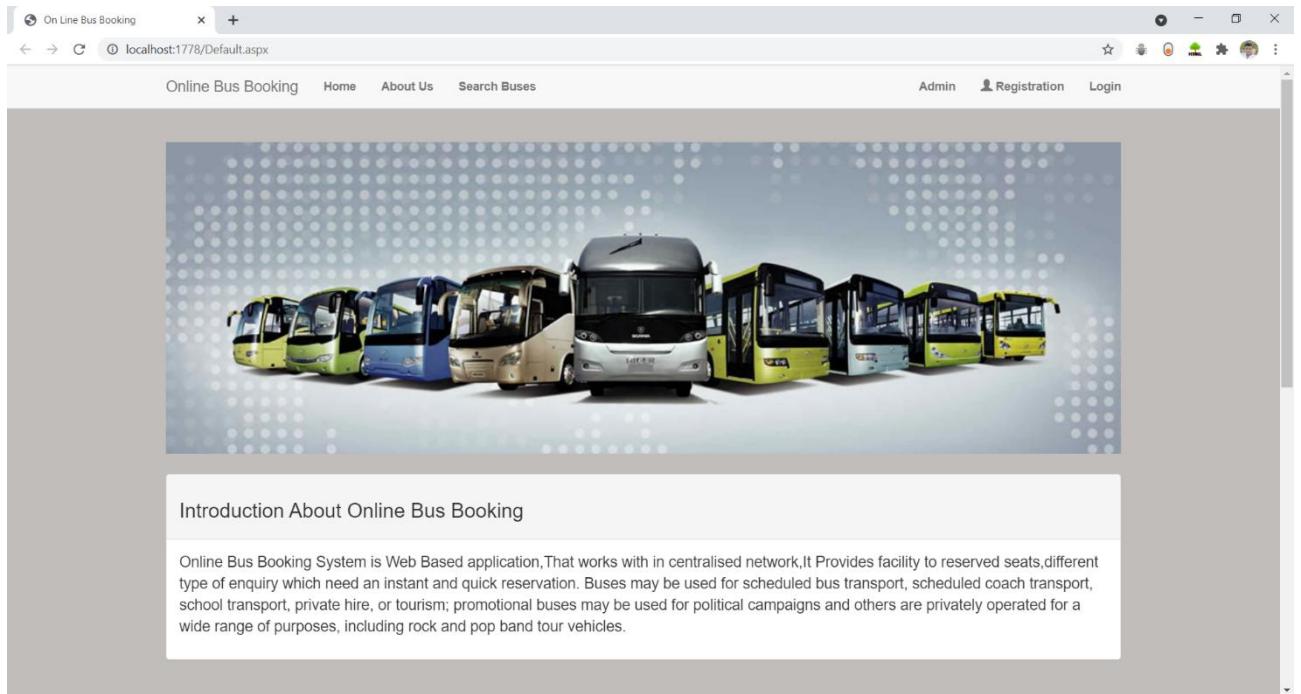
8. Now we will create our user module where main startup pages and other webform will be available.as shown in below picture:



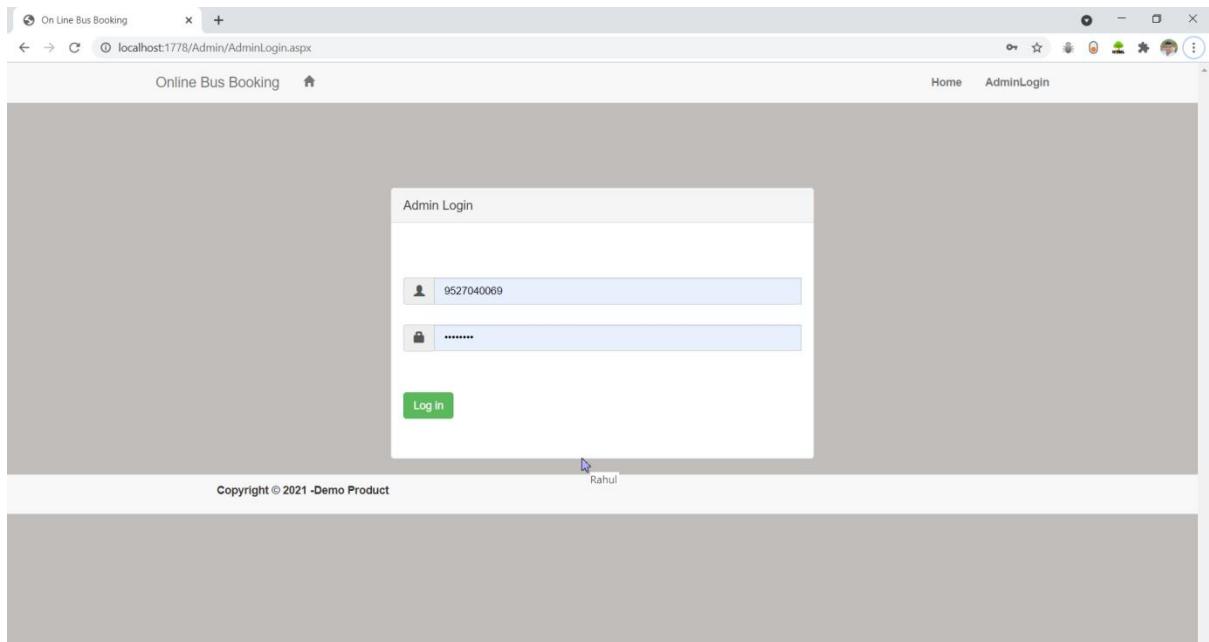
Now from here you can create your own project or you just open it in your visual studio. Database query is also available there.

Now execute your project by setting Default.aspx webform as startup page...

- So this is our startup page:



- Now by clicking on Admin button you will redirect to admin section.



- After login, you will get options like add bus, Route details, Booking Report, Bus details Report.

On Line Bus Booking

localhost:1778/Admin/BusDetailsReport.aspx

Online Bus Booking    Add Bus    Route Details    Booking Report    Bus Details Report    Hello, Admin!    Logout

Sr.No	Bus ID	Bus No	Bus Name	Bus Type	Seat Columns	Seat Row	Origin	Destination	Action
1	3	NV245632	Neeta Volvo	AC	7	5	Mumbai	Pune	<a href="#">Update Details</a> <a href="#">Add Bus Schedule</a>
2	4	64656	Atul Bus	AC	9	6	Nallasopara	Churchgate	<a href="#">Update Details</a> <a href="#">Add Bus Schedule</a>
3	5	A254635	Abhinav Transporters	AC	7	5	Mumbai	Surat	<a href="#">Update Details</a> <a href="#">Add Bus Schedule</a>
4	6	A254635	Vasai-Virar	Normal	9	6	Vasai	Virar	<a href="#">Update Details</a> <a href="#">Add Bus Schedule</a>
5	7	AV3526	Mercedes-Benz	AC	4	6	Khamgaon	Warora	<a href="#">Update Details</a> <a href="#">Add Bus Schedule</a>
6	8	4272	ShivShahi	AC	5	8	Nashik	Aurangabad	<a href="#">Update Details</a> <a href="#">Add Bus Schedule</a>

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On Line Bus Booking

localhost:1778/Admin/RouteDetails.aspx

Online Bus Booking    Home    Add Bus    Route Details    Booking Report    Bus Details Report    Hello, Admin!    Logout

Sr.No	Route ID	Origin	Destination	Action
1	3	Mumbai	Pune	<a href="#">Add Boarding Points</a>
2	4	Nallasopara	Churchgate	<a href="#">Add Boarding Points</a>
3	5	Mumbai	Surat	<a href="#">Add Boarding Points</a>
4	6	Vasai	Virar	<a href="#">Add Boarding Points</a>
5	7	Khamgaon	Warora	<a href="#">Add Boarding Points</a>
6	8	Nashik	Aurangabad	<a href="#">Add Boarding Points</a>

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On Line Bus Booking

localhost:1778/Admin/BusDetailsReport.aspx

Online Bus Booking    Home    Add Bus    Route Details    Booking Report    Bus Details Report    Hello, Admin!    Logout

Sr.No	Bus ID	Bus No	Bus Name	Bus Type	Seat Columns	Seat Row	Origin	Destination	Action
1	3	NV245632	Neeta Volvo	AC	7	5	Mumbai	Pune	<a href="#">Update Details Add Bus Schedule</a>
2	4	64656	Atul Bus	AC	9	6	Nallasopara	Churchgate	<a href="#">Update Details Add Bus Schedule</a>
3	5	A254635	Abhinav Transporters	AC	7	5	Mumbai	Surat	<a href="#">Update Details Add Bus Schedule</a>
4	6	A254635	Vasai-Virar	Normal	9	6	Vasai	Virar	<a href="#">Update Details Add Bus Schedule</a>
5	7	AV3526	Mercedes-Benz	AC	4	6	Khamgaon	Warora	<a href="#">Update Details Add Bus Schedule</a>
6	8	4272	ShivShahi	AC	5	8	Nashik	Aurangabad	<a href="#">Update Details Add Bus Schedule</a>

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- Now in User module default page you will get registration page and login page.

The screenshot shows a web browser window titled "On Line Bus Booking" with the URL "localhost:1778/UserRegistration.aspx". The page has a header with links for "Online Bus Booking", "Home", "About Us", "Search Buses", "Admin", "Registration", and "Login". The main content area is titled "New User Registration" and contains the following form fields:

First Name	Last Name
Mobile No/User Name 9527040069	Password .....
Email ID	City
Address	Pincode

At the bottom of the form are two buttons: "Register" and "Login". A copyright notice "Copyright © 2021 -Demo Product" is visible at the bottom of the page.

The screenshot shows a web browser window titled "On Line Bus Booking" with the URL "localhost:1778/Login.aspx". The page has a header with links for "Online Bus Booking", "Home", "About Us", "Search Buses", "Admin", "Registration", and "Login". The main content area is titled "Sign In" and contains the following form fields:

User Name 9527040069
Password .....

Below the form is a green "Log In" button and a link "Register as a new user". A copyright notice "Copyright © 2021 -Demo Product" is visible at the bottom of the page.

- After registering successfully you will get a username and password then login using it.  
After login you will get options like search buses, Booking Report.

On Line Bus Booking    +

localhost:1778/Home.aspx

Online Bus Booking    Home    About Us    Search Buses    Booking Report

Hii!!! Tejas  
Logout

Search For Available Buses

**From**  
-Select City--

**To**  
-Select City--

**Travel Date**  
DD/MM/YYYY Format

**Search Buses**

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On Line Bus Booking    +

localhost:1778/BookingReport.aspx

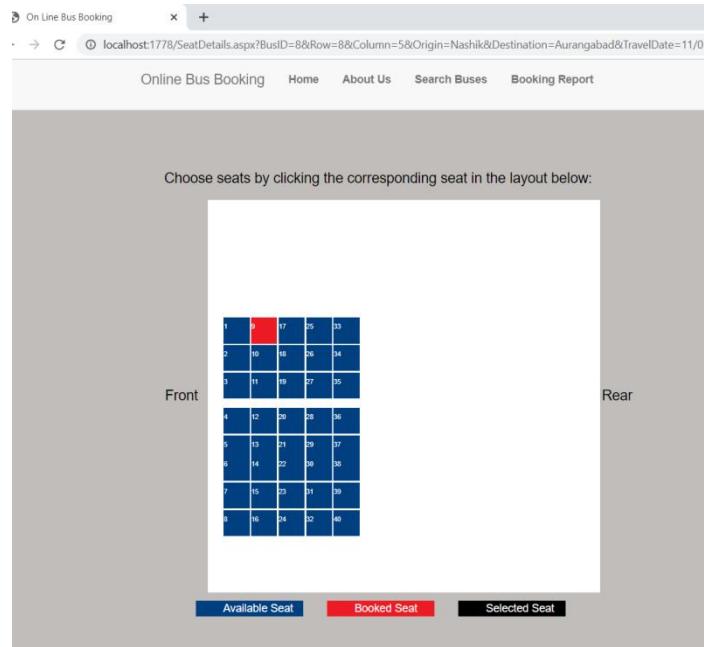
Online Bus Booking    Home    About Us    Search Buses    Booking Report

Hii!!! Tejas  
Logout

Sr.No	PNR No	Total Booked Tickets	Booking Amount	Action
1	KEB6DW	2	500.00	<a href="#">Download Ticket</a>
2	RJIV2F	1	250.00	<a href="#">Download Ticket</a>
3	JD14MB	2	500.00	<a href="#">Download Ticket</a>
4	4CHEI2	1	500.00	<a href="#">Download Ticket</a>
5	2LJ4M1	1	380.00	<a href="#">Download Ticket</a>

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- After searching your desired bus you will get a select option and then you will proceed towards your booking.



- Then you will have to select available seats and then boarding point and then enter your details and confirm your booking and proceed your payment.

On Line Bus Booking

localhost:1778/PassengerDetailsInfo.aspx?BusID=8&SeatNo=10&TravelDate=11%2f05%2f2021&Origin=Nashik&Destination=Aurangabad&BoardingID=13&Fare=380

Hii!!! Tejas

Logout

Online Bus Booking Home About Us Search Buses Booking Report

Row Number	First Name	Last Name	Email	Contact	City	
1	Sujit	Pardeshi	sujitpardeshi@gmail.com	5647654763	Nashik	<a href="#">Add New Passanger Details</a>

[Confirm Booking](#)

Card Details For Payment

Select Your Card:

3 Digit CVV Code:

Select Bank:

Card No:

[Make Payment](#)

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On Line Bus Booking

localhost:1778/BookingReport.aspx?Msg=Booking%20Done%20Successfully.Please%20download%20your%20ticket%20from%20below

Hii!!! Tejas

Logout

Online Bus Booking Home About Us Search Buses Booking Report

Sr.No	PNR No	Total Booked Tickets	Booking Amount	Action
1	KEB6DW	2	500.00	<a href="#">Download Ticket</a>
2	RJV2F	1	250.00	<a href="#">Download Ticket</a>
3	JD14MB	2	500.00	<a href="#">Download Ticket</a>
4	4CHEI2	1	500.00	<a href="#">Download Ticket</a>
5	2LJ4M1	1	380.00	<a href="#">Download Ticket</a>
6	XJW8PH	1	380.00	<a href="#">Download Ticket</a>

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# Online Bus Booking

## PNR Details

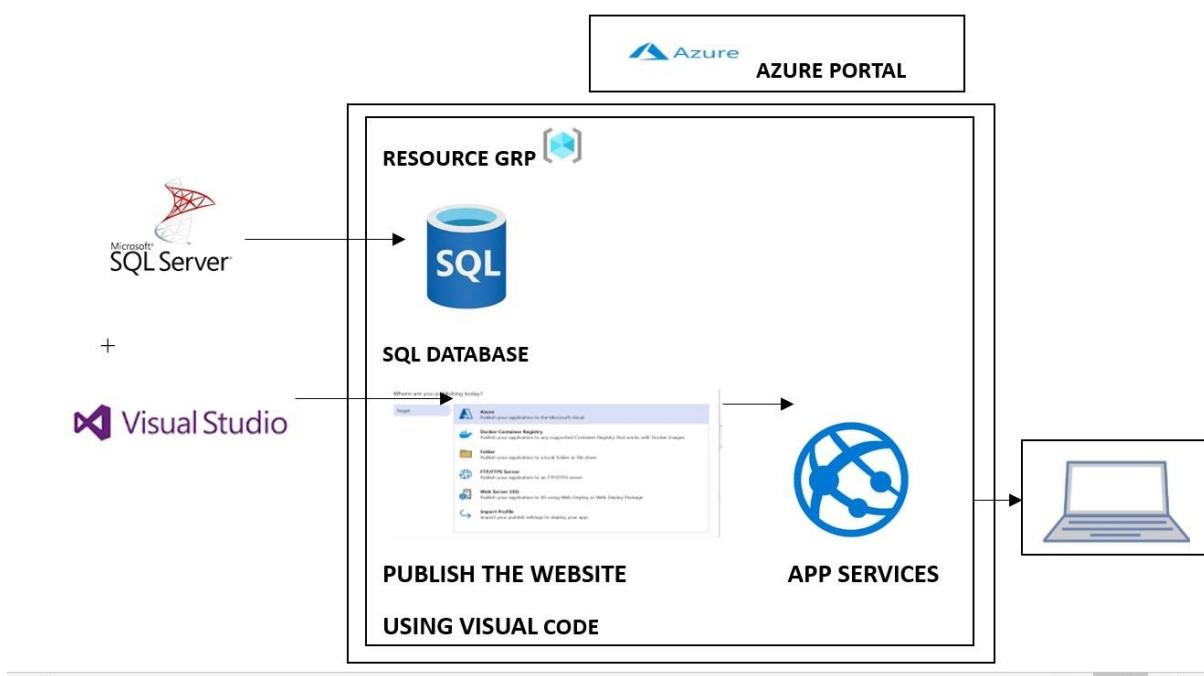
PNR No	BG0QLQ
Total Tickets	3
Total Amount	120000.00
Bus Name	Neeta Volvo

## Passenger's Details

Sr.No	First Name	Last Name	Contact	SeatNo	Travel Date	From	To	Boarding Place
1	SAKSHI	SINGH	773405258	16	15/10/2023	Mumbai	Pune	Dadar
2	pratiksha	zalte	8828906582	17	15/10/2023	Mumbai	Pune	Dadar
3				18	15/10/2023	Mumbai	Pune	Dadar

*Thank you for booking Ticket with us,have a pleasant journey!!!!*

## Flowchart:-



## Service Used in Microsoft Azure portal:-

### 1)Sql database:-

Azure SQL Database is an always-up-to-date, fully managed relational database service built for the cloud.

### 2)Server Firewall:-

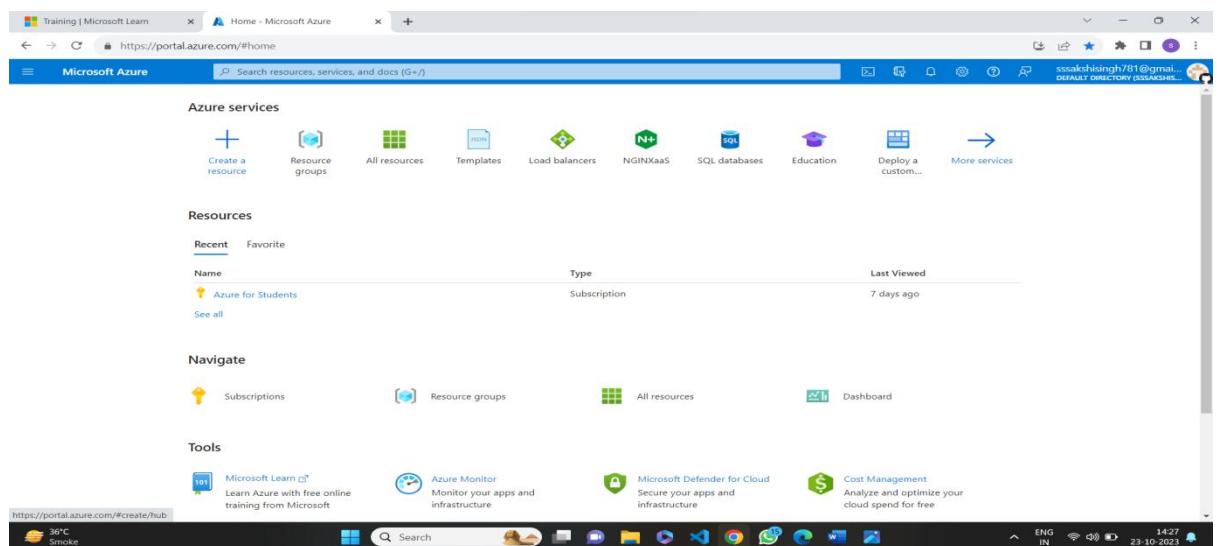
On the SQL Database's overview page, look for the "Security" section in the left-hand menu and click on "Firewalls and virtual networks". Now, your server's firewall is configured to allow connections from the specified IP addresses. Make sure to test the connection from the allowed IP addresses to ensure that it's working as expected.

**3)Monitor-Alerts:-** Monitor-Alerts Monitor Alerts is a service provided by Microsoft Azure that helps you monitor and respond to changes in your Azure resources. It allows you to set up proactive notifications and automated actions based on metric values, log search queries, and various other conditions.

After the web application is created. We are going to deploy our application on azure portal using azure services such as SQL database, App services.

## Steps to deploy our Application on Azure Portal

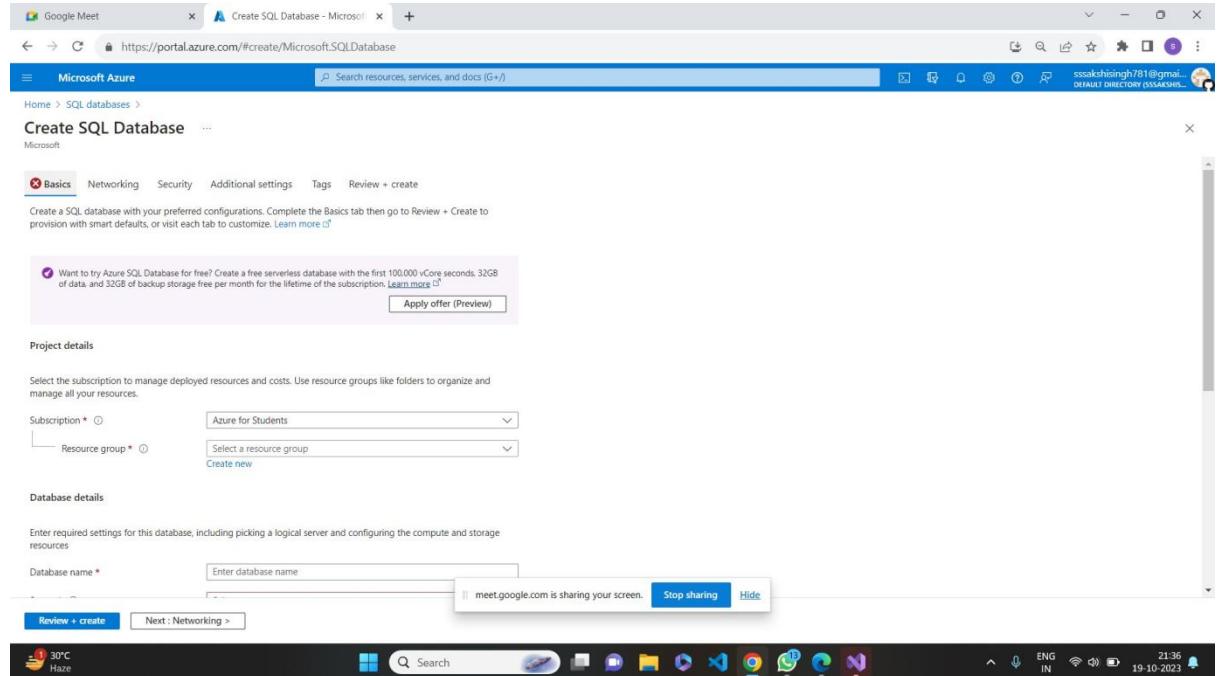
### 1)Go to azure Portal



# Creating Sql Database.

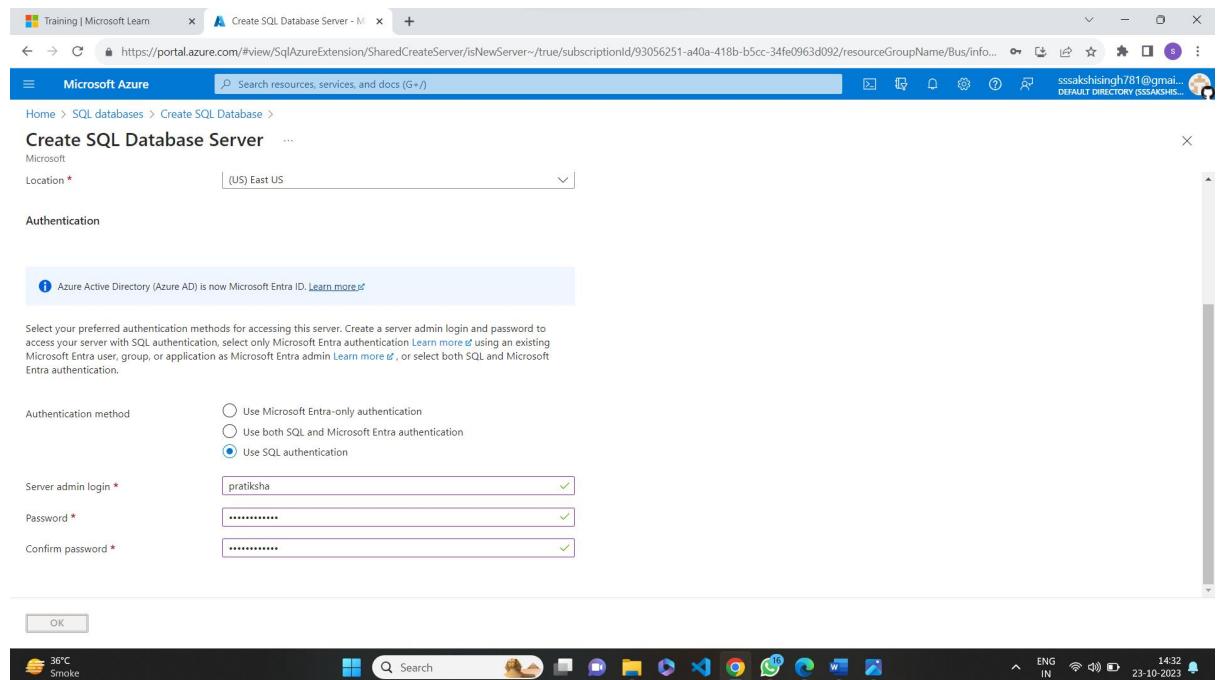
2)Go to SQL Database services and create your database.

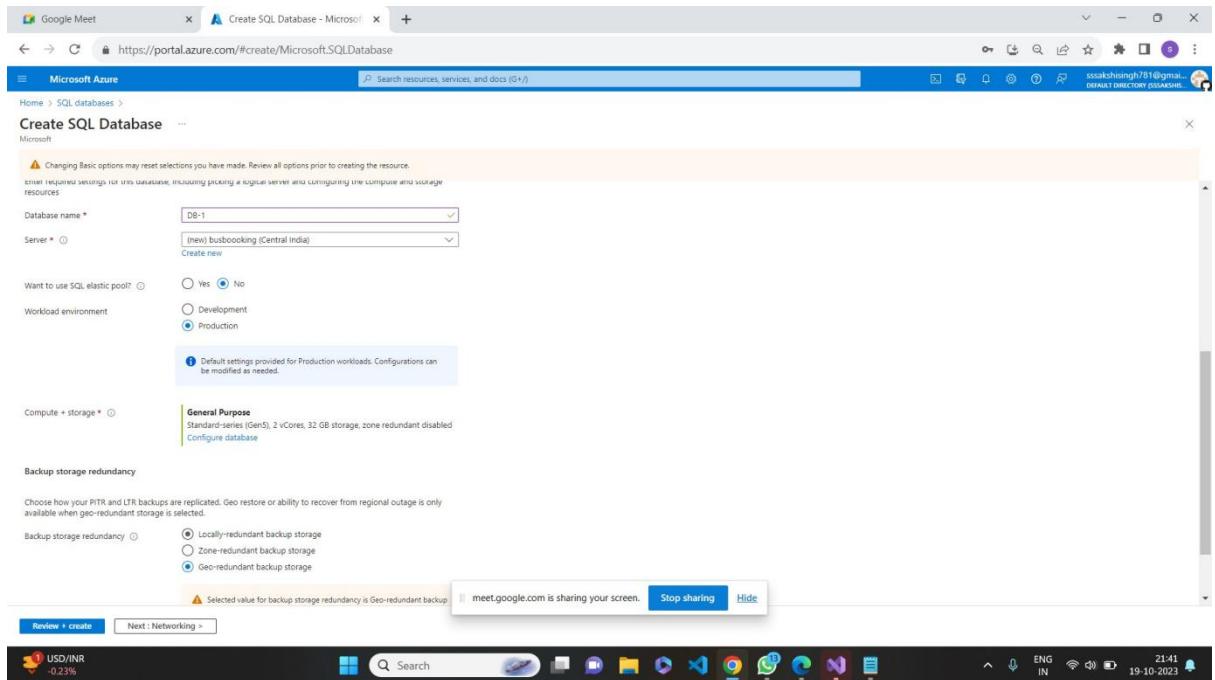
Fill the details as per the given below image.



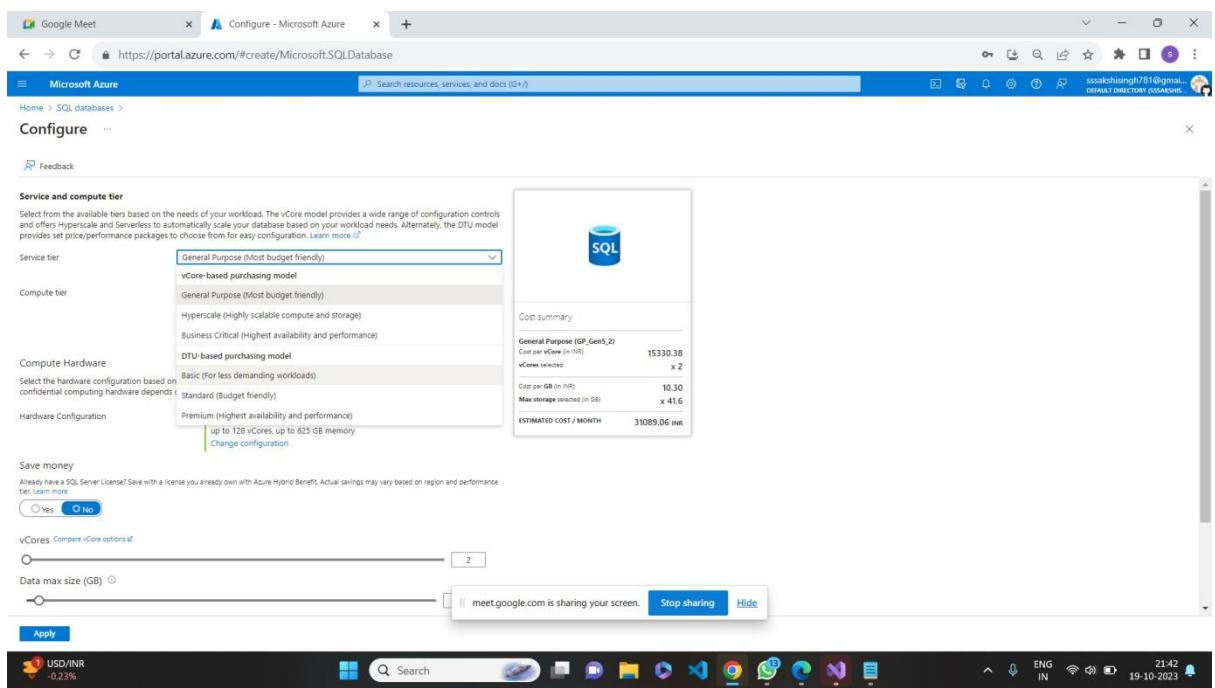
3)choose SQL Authentication.

Set the Admin Id and Password for SQL Authentication.





#### 4) Configure and choose basic for service tier



**Service and compute tier**

Select from the available tiers based on the needs of your workload. The Core model provides a wide range of configuration controls and offers Hyperscale and Serverless to automatically scale your database based on your workload needs. Alternately, the DTU model provides set price/performance packages to choose from for easy configuration. [Learn more](#)

Service tier: Basic (BASIC) [Compare DTU options](#) [Compare service tiers](#)

**5 (Basic)**

Data max size (GB): 2

**Cost summary**

Basic (BASIC)	Cost per DTU (in INR)	DTUs selected	ESTIMATED COST / MONTH
	87.96	x 5	439.82 INR

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**Create SQL Database**

Microsoft

Connectivity method:  Public endpoint  No access  Private endpoint

Firewall rules

Setting 'Allow Azure services and resources to access this server' to Yes allows communications from all resources inside the Azure boundary, that may or may not be part of your subscription. [Learn more](#)

Setting 'Add current client IP address' to Yes will add an entry for your client IP address to the server firewall.

Allow Azure services and resources to access this server:  Yes  No

Add current client IP address:  No  Yes

Connection policy:  Default - Uses Redirect policy for all client connections originating inside of Azure (except Private Endpoint connections) and Proxy for all client connections originating outside Azure  Proxy - All connections are proxied via the Azure SQL Database gateways  Redirect - Clients establish connections directly to the node hosting the database

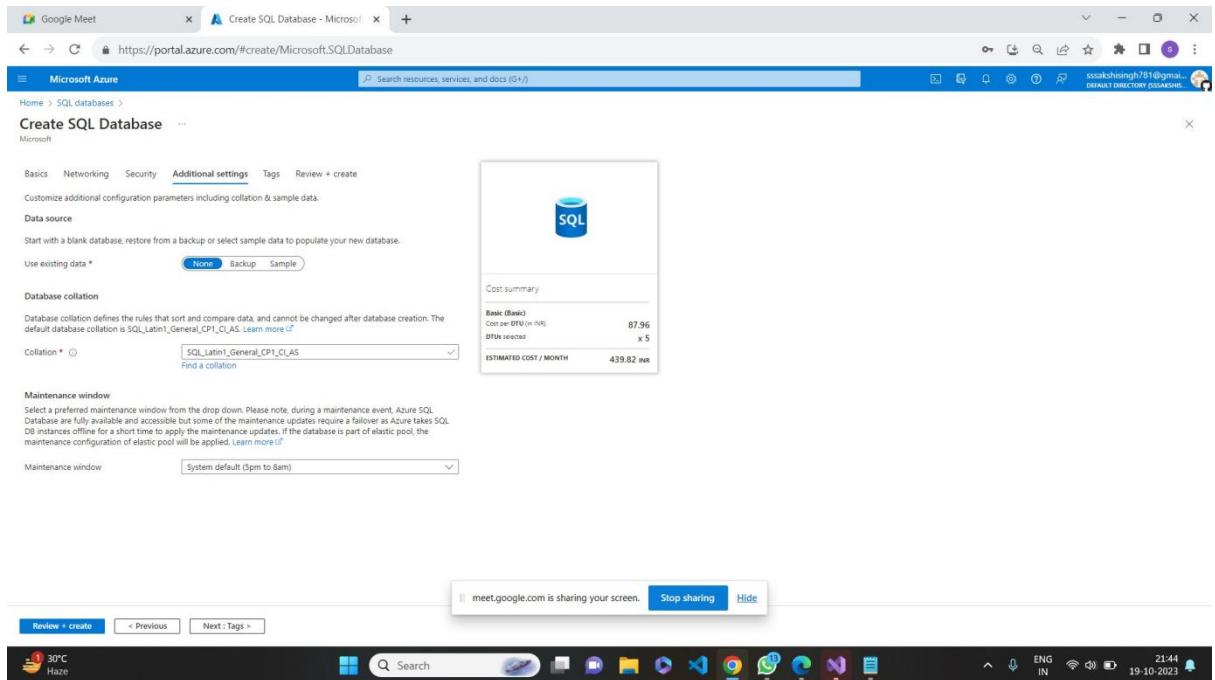
Encrypted connections

This server supports encrypted connections using Transport Layer Security (TLS). For information on TLS version and certificates, refer to connecting with TLS/SSL. [Learn more](#)

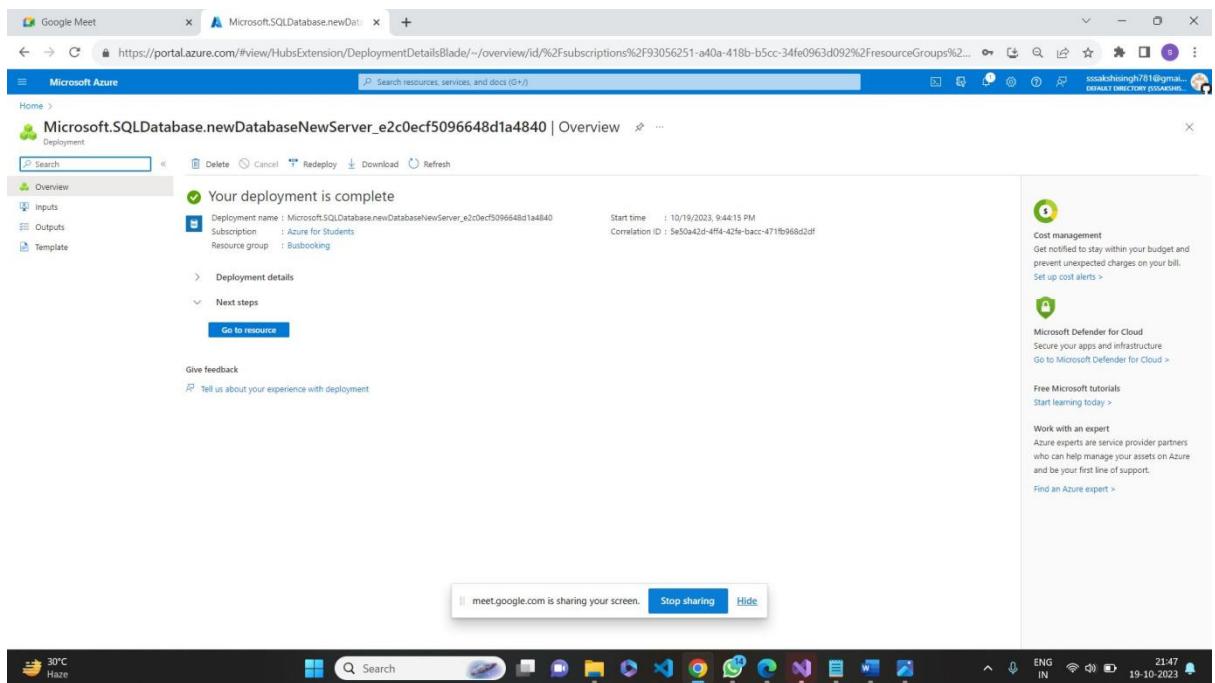
Minimum TLS version:  1.0  1.2  1.3  1.4  1.5  1.6

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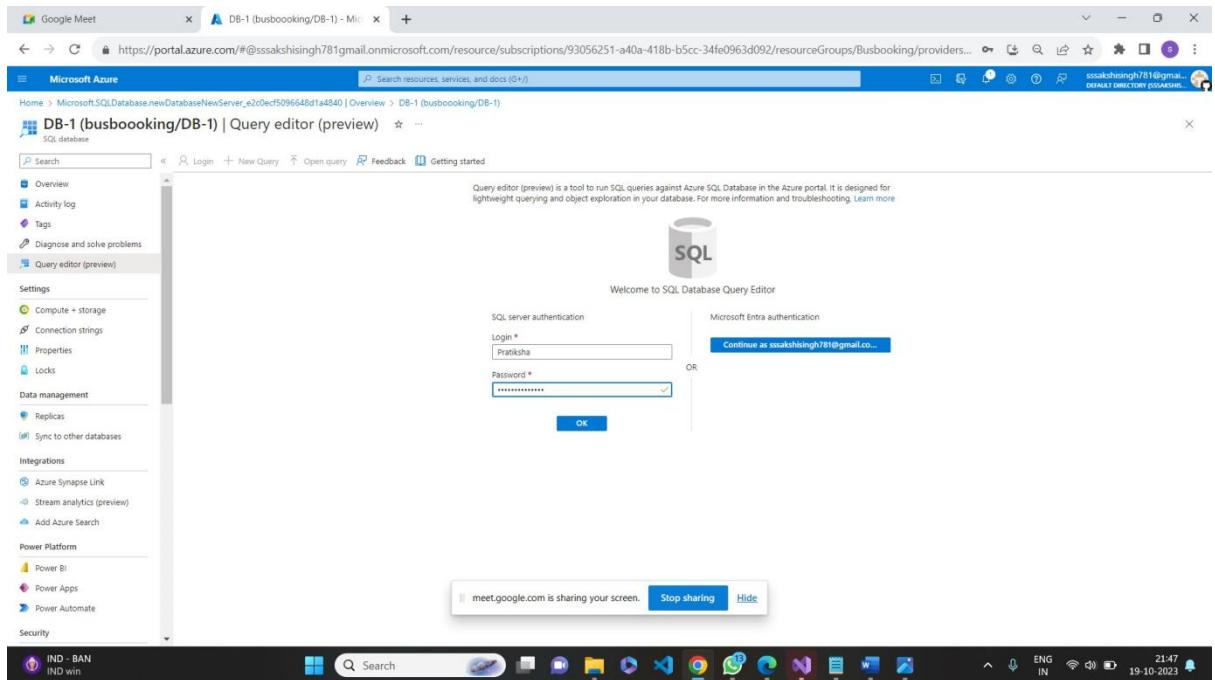
[Review + create](#) [< Previous](#) [Next : Security >](#)



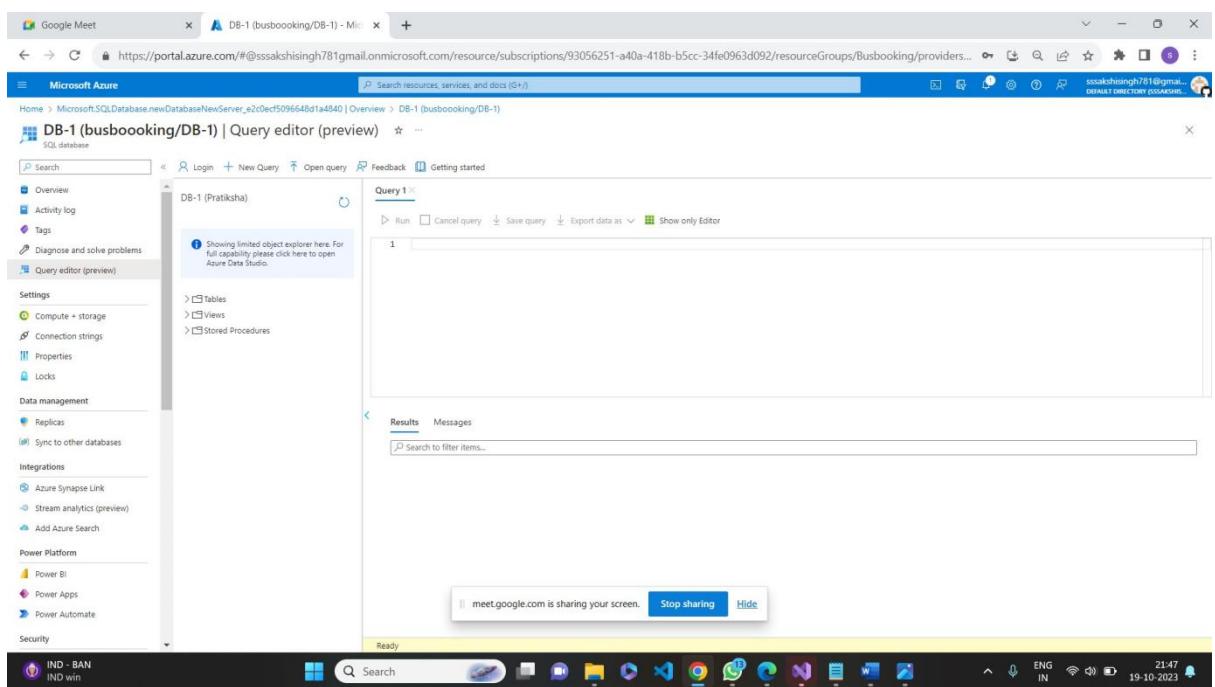
#### 4)Review and create.



#### 5)Go to Query Editor and enter the credentials created before for SQL authentication.



6) Paste the query for creating tables present in bus booking database of local database SSMS.



```

151 INSERT [dbo].[PickupStand] ([StandId], [Routefld], [PlaceName], [PlaceTime], [BusID]) VALUES (7, 3, 'N'Acholle Talav', 'N'10:25 AM', 3)
152 INSERT [dbo].[PickupStand] ([StandId], [Routefld], [PlaceName], [PlaceTime], [BusID]) VALUES (8, 3, 'N'Dwarka Hotel', 'N'11:00 PM', 3)
153 INSERT [dbo].[PickupStand] ([StandId], [Routefld], [PlaceName], [PlaceTime], [BusID]) VALUES (9, 5, 'N'Dadar', 'N'08:00 PM', 5)
154 INSERT [dbo].[PickupStand] ([StandId], [Routefld], [PlaceName], [PlaceTime], [BusID]) VALUES (10, 5, 'N'Borivali', 'N'06:45 PM', 5)
155 INSERT [dbo].[PickupStand] ([StandId], [Routefld], [PlaceName], [PlaceTime], [BusID]) VALUES (11, 5, 'N'Dwarka Hotel', 'N'02:30 PM', 3)
156 SET IDENTITY_INSERT [dbo].[PickupStand] OFF
157 /****** Object: Table [dbo].[CityDetails] Script Date: 04/30/2017 19:37:11 *****/
158 SET ANSI_NULLS ON
159 GO
160 SET QUOTED_IDENTIFIER ON
161 GO
162 SET ANSI_PADDING ON
163 GO

```

The screenshot shows the Microsoft Azure portal with the Query editor (preview) open. The left sidebar shows the database structure with tables, views, and stored procedures. The main area displays a SQL script for inserting data into the 'PickupStand' table. The status bar at the bottom indicates 'meet.google.com is sharing your screen.' and shows system information like date and time.

## 7)Run the query.

```

1 /****** Object: Table [dbo].[ScheduleMaster] Script Date: 04/30/2017 19:37:11 *****/
2 SET ANSI_NULLS ON
3 GO
4 SET QUOTED_IDENTIFIER ON
5 GO
6 SET ANSI_PADDING ON
7 GO
8 CREATE TABLE [dbo].[ScheduleMaster](
9     [ScheduledId] [int] IDENTITY(1,1) NOT NULL,
10    [BusId] [int] NULL,
11    [RouteId] [int] NULL,
12    [Date] [varchar](10) NULL,
13    [Fare] [decimal](10, 2) NULL,
14    [Status] [bit] NULL
15 ) ON [PRIMARY]
16 GO

```

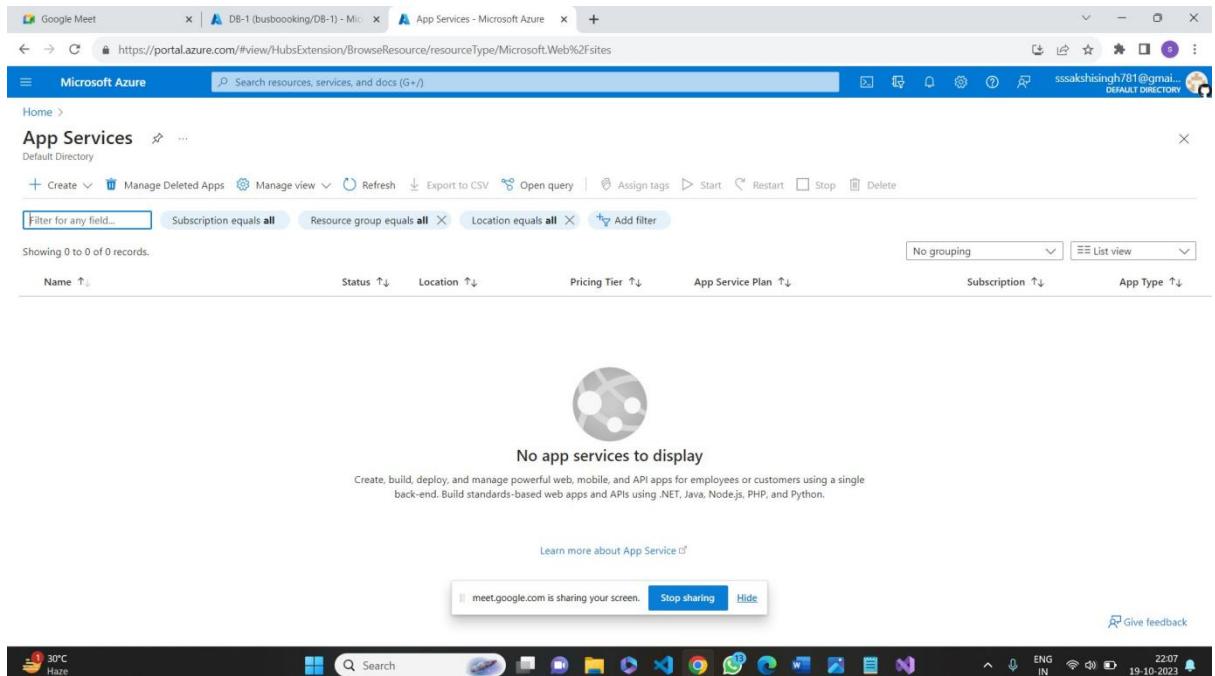
This screenshot shows the Microsoft Azure portal with the Query editor (preview) open. The left sidebar shows the database structure with tables, views, and stored procedures. The main area displays a SQL script for creating the 'ScheduleMaster' table. The status bar at the bottom indicates 'meet.google.com is sharing your screen.' and shows system information like date and time.

The screenshot shows the Microsoft Azure portal interface. The main title bar displays several tabs, including "Training | Microsoft Learn", "Busdb (busbooking/Busdb)", "busbookings - Microsoft A...", "What is the Azure SQL Data...", "Azure Synapse Link for A...", "Set Azure SQL Firewall", and others. The current active tab is "Busdb (busbooking/Busdb)". The left sidebar navigation shows "Home > SQL databases > SQL databases". The main content area is titled "Busdb (busbooking/Busdb)" and "SQL database". It includes a search bar, a toolbar with "Copy", "Restore", "Export", "Set server firewall", "Delete", "Connect with...", and "Feedback" buttons, and a "JSON View" link. The "Essentials" section provides details such as "Resource group (move)" (labeled "BUS"), "Status" (Online), "Location" (Central India), "Subscription" (labeled "Azure for Students"), "Server name" (busbooking\_database.windows.net), "Elastic pool" (No elastic pool), "Connection strings" (Show database connection strings), "Pricing tier" (Basic), "Subscription ID" (93056251-a40a-418b-b5cc-34fe0963d092), and "Earliest restore point" (2023-10-23 09:46 UTC). The "Getting started" tab is selected, followed by "Monitoring", "Properties", "Features", "Notifications (0)", "Integrations", and "Tutorials". Below the essentials section, there is a "Start working with your database" section with a "Connect to your database and start working with data with a few simple steps. Learn more" button. The bottom of the screen shows the Windows taskbar with various pinned icons and system status indicators.

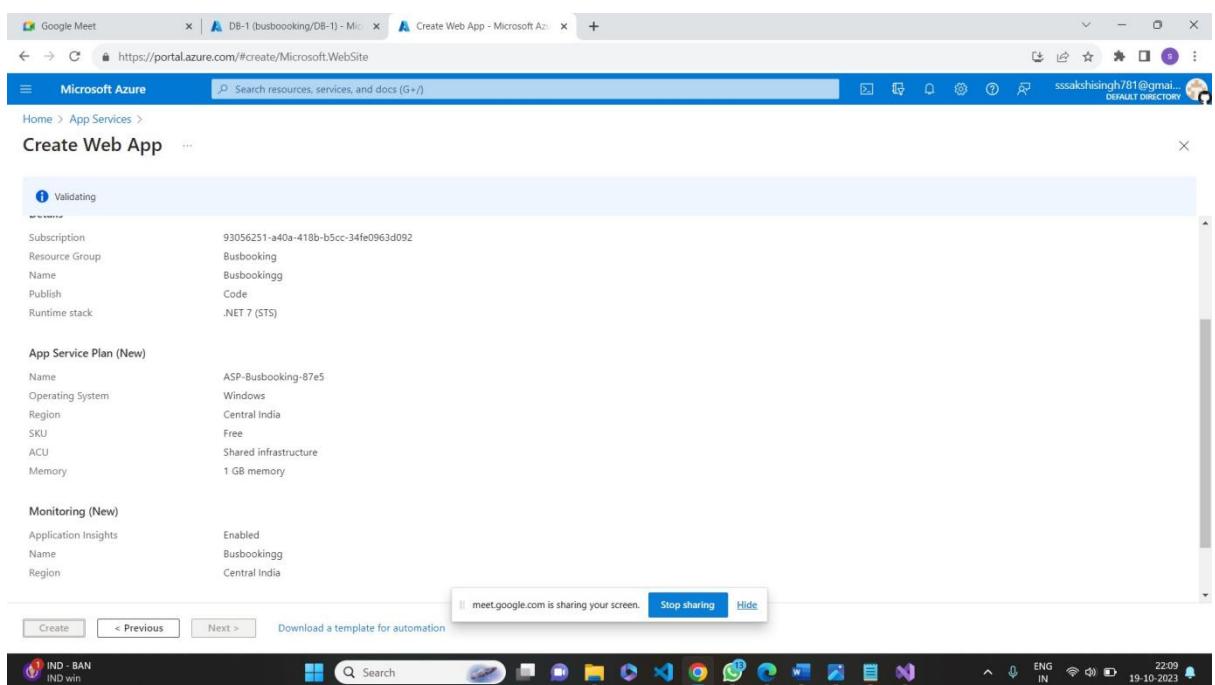
The screenshot shows the Microsoft Azure portal interface, specifically the "busbooking | Networking" page for the Busdb database. The title bar and tabs are identical to the previous screenshot. The left sidebar navigation shows "Home > SQL databases > Busdb (busbooking/Busdb) > busbooking". The main content area is titled "busbooking | Networking" and "SQL server". It includes a search bar, a toolbar with "Feedback", "Private access", and "Connectivity" buttons, and a "Public network access" section. The "Public network access" section has two options: "Disable" (radio button) and "Selected networks" (radio button, which is selected). A note states: "Public Endpoints allow access to this resource through the internet using a public IP address. An application or resource that is granted access with the following network rules still requires proper authorization to access this resource. Learn more". Below this is a "Virtual networks" section with a "Add a virtual network rule" button. The "Firewall rules" section allows certain public internet IP addresses to access the resource. At the bottom, there are "Save" and "Discard" buttons. The bottom of the screen shows the Windows taskbar with various pinned icons and system status indicators.

8) After that go to App Services to deploy your website.

# Creating App Services:



The screenshot shows the Microsoft Azure App Services dashboard. The URL is https://portal.azure.com/#view/HubsExtension/BrowseResource/resourceType/Microsoft.Web%2Fsites. The search bar contains "Search resources, services, and docs (G+ /)". The main heading is "App Services". Below it, there are filter options: "Subscription equals all", "Resource group equals all", "Location equals all", and "Add filter". The results table has columns: Name, Status, Location, Pricing Tier, App Service Plan, Subscription, and App Type. A message at the bottom says "No app services to display".

The screenshot shows the "Create Web App" wizard, step 1: Validation. The URL is https://portal.azure.com/#create/Microsoft.WebSite. The search bar contains "Search resources, services, and docs (G+ /)". The main heading is "Create Web App". The validation status is "Validating". The configuration details are as follows:

Subscription	93056251-a40a-418b-b5cc-34fe0963d092
Resource Group	Busbooking
Name	Busbookingg
Publish	Code
Runtime stack	.NET 7 (STS)

Below this, the "App Service Plan (New)" section shows:

Name	ASP-Busbooking-87e5
Operating System	Windows
Region	Central India
SKU	Free
ACU	Shared infrastructure
Memory	1 GB memory

The "Monitoring (New)" section shows:

Application Insights	Enabled
Name	Busbookingg
Region	Central India

At the bottom, there are buttons for "Create", "< Previous", "Next >", and "Download a template for automation". A message at the bottom says "meet.google.com is sharing your screen. Stop sharing Hide".

# Create an alert rule

The screenshot shows the 'Create an alert rule' blade in the Microsoft Azure portal. The 'Condition' tab is selected. The 'Signal name' dropdown is set to 'Http Server Errors'. The 'Alert logic' section shows a static threshold of '1' for 'Greater than' operator and 'Count' unit. The 'Preview' section displays a line chart showing the total Http Server Errors over the last 6 hours, with a value of 1 crossing the threshold line at approximately 1 PM UTC+05:30. The 'Review + create' button is visible at the bottom.

Scope Condition Actions Details Tags Review + create

Configure when the alert rule should trigger by selecting a signal and defining its logic.

Signal name \* ⓘ  See all signals

Alert logic

We have set the condition configuration automatically based on popular settings for this metric. Please review and make changes as needed.

Threshold ⓘ  Static  Dynamic

Aggregation type ⓘ

Operator ⓘ

Unit ⓘ

Threshold value \* ⓘ

Split by dimensions

I can dimensions to monitor specific time series and provide context to the fired alert. Dimensions can be either number or string columns. If you select more than one dimension value, each time series that results from the combination will trigger its own alert and will be charged separately. [About monitoring multiple time series](#)

Review + create Previous Next: Actions >

Preview

Whenever the total Http Server Errors is greater than 1

Time range: Over the last 6 hours Time series: Aggregate

\$0.10 USD/month

1  
0.8  
0.6  
0.4  
0.2  
0

10 AM 11 AM 12 PM 1 PM 2 PM 3 PM UTC+05:30

Http Server Errors (Sum) busbookings

Dropbox Sharing Screenshot A link to your screenshot was copied to your clipboard. Show in Explorer

ENG IN 15:59 23-10-2023

This screenshot shows the 'Create an alert rule' blade with dimension filtering applied. The 'Operator' is 'Greater than', 'Unit' is 'Count', and 'Threshold value' is '1'. The 'Dimensions' section shows a table with a single row: 'Select dimension' (dropdown), 'Dimension name' (dropdown), 'Operator' (radio buttons for '=', '>=', '<='), 'Dimension values' (dropdown), and 'Include all future values' (checkbox). The 'When to evaluate' section shows 'Check every' set to '1 minute' and 'Lookback period' set to '5 minutes'. The 'Preview' section shows the same line chart as the previous screenshot, but the Y-axis scale is different, ranging from 0 to 1. The 'Review + create' button is visible at the bottom.

Operator ⓘ

Unit ⓘ

Threshold value \* ⓘ

Split by dimensions

I can dimensions to monitor specific time series and provide context to the fired alert. Dimensions can be either number or string columns. If you select more than one dimension value, each time series that results from the combination will trigger its own alert and will be charged separately. [About monitoring multiple time series](#)

Dimension name	Operator	Dimension values	Include all future values
Select dimension	=	0 selected	<input type="checkbox"/>
		Add custom value	

When to evaluate

Check every ⓘ

Lookback period ⓘ

+ Add condition

Review + create Previous Next: Actions >

Preview

Whenever the total Http Server Errors is greater than 1

Time range: Over the last 6 hours Time series: Aggregate

\$0.10 USD/month

1  
0.8  
0.6  
0.4  
0.2  
0

10 AM 11 AM 12 PM 1 PM 2 PM 3 PM UTC+05:30

Http Server Errors (Sum) busbookings

Dropbox Sharing Screenshot A link to your screenshot was copied to your clipboard. Show in Explorer

ENG IN 15:59 23-10-2023

Training | Microsoft Learn | busbooking - Microsoft Azure | Create action group - Microsoft Azure | What is the Azure SQL Data | Azure Synapse Link for Azure | Set Azure SQL Firewall | https://portal.azure.com/#view/Microsoft\_Azure\_Monitoring\_Alerts/CreateActionGroupBlade/subscriptionId/93056251-a40a-418b-b5cc-34fe0963d092/subscriptionName//resourceGrou... | + | - | X

Microsoft Azure | Search resources, services, and docs (G+) | ssakshisingh781@gmail.com | DEFAULT DIRECTORY (SSSAKSHI...)

Home > busbookings | Alerts > Create an alert rule > Create action group

**Create action group**

**Basics** Notifications Actions Tags Review + create

An action group invokes a defined set of notifications and actions when an alert is triggered. [Learn more](#)

**Project details**

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

Subscription: Azure for Students  
Resource group: Bus  
Region: Global

**Instance details**

Action group name: Actiongrp1  
Display name: Rule1

The display name is limited to 12 characters

**Review + create** Previous Next: Notifications >

36°C Smoke

Training | Microsoft Learn | busbooking - Microsoft Azure | Create action group - Microsoft Azure | What is the Azure SQL Data | Azure Synapse Link for Azure | Set Azure SQL Firewall | https://portal.azure.com/#view/Microsoft\_Azure\_Monitoring\_Alerts/CreateActionGroupBlade/subscriptionId/93056251-a40a-418b-b5cc-34fe0963d092/subscriptionName//resourceGrou... | + | - | X

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Home > busbookings | Alerts > Create an alert rule > Create action group

**Create action group**

**Basics** **Notifications** Actions Tags Review + create

Choose how to get notified when the action group is triggered. This step is optional.

Notification type: Email/SMS message/Push/Voice  
Name: Rule1  
Selected: Email, SMS message

36°C Smoke

Training | Microsoft Learn | busbooking - Microsoft Azure | Create action group - Microsoft Azure | What is the Azure SQL Data | Azure Synapse Link for Azure | Set Azure SQL Firewall | https://portal.azure.com/#view/Microsoft\_Azure\_Monitoring\_Alerts/CreateActionGroupBlade/subscriptionId/93056251-a40a-418b-b5cc-34fe0963d092/subscriptionName//resourceGrou... | + | - | X

Microsoft Azure | Search resources, services, and docs (G+) | ssakshisingh781@gmail.com | DEFAULT DIRECTORY (SSSAKSHI...)

Home > busbookings | Alerts > Create an alert rule > Create action group

**Create action group**

**Basics** Notifications Actions Tags Review + create

Choose how to get notified when the action group is triggered. This step is optional.

Notification type: Email/SMS message/Push/Voice  
Name: Rule1  
Selected: Email, SMS message

**Review + create** Previous Next: Actions >

Training | Microsoft Learn | busbooking - Microsoft Azure | Create an alert rule - Microsoft Azure | What is the Azure SQL Data... | Azure Synapse Link for Azure | Set Azure SQL Firewall

https://portal.azure.com/#view/Microsoft\_Azure\_Monitoring/CreateAlertRuleBlade/scopes/%5B%2Fsubscriptions%2F93056251-a40a-418b-b5cc-34fe0963d092%2FresourceGroups%2...

Microsoft Azure

Search resources, services, and docs (G+)

Home > busbookings | Alerts > Create an alert rule

**Project details**

Select the subscription and resource group in which to save the alert rule.

Subscription \* (Azure for Students) | Resource group \* (Bus) | Create new

**Alert rule details**

Severity \* (1 - Error) | Alert rule name \* (Rule1) | Alert rule description ( )

**Advanced options**

**Settings**

Enable upon creation ( ) | Automatically resolve alerts ( )

**Review + create** | Previous | Next: Tags >

35°C Near record | Search | Start button | Taskbar icons | ENG IN | 16:07 | 23-10-2023

Training | Microsoft Learn | busbooking - Microsoft Azure | Create an alert rule - Microsoft Azure | What is the Azure SQL Data... | Azure Synapse Link for Azure | Set Azure SQL Firewall

https://portal.azure.com/#view/Microsoft\_Azure\_Monitoring/CreateAlertRuleBlade/scopes/%5B%2Fsubscriptions%2F93056251-a40a-418b-b5cc-34fe0963d092%2FresourceGroups%2...

Microsoft Azure

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Home > busbookings | Alerts > Create an alert rule

**Creating alert rule**  
Creating alert rule Rule1.

**Review + create**

Scope | Condition | Actions | Details | Tags | **Review + create**

Metric alert rule | Total pricing  
1 Condition | 0.10 USD/month  
Terms of use | Privacy statement | Pricing

**Scope**  
Resource (Azure for Students > Bus > busbookings)

**Condition**

Signal name	Http5xx
Operator	Greater than
Aggregation type	Total
Threshold value	1
Lookback period	5 minutes
Check every	1 minute

**Actions**

Action group name (Contain actions)

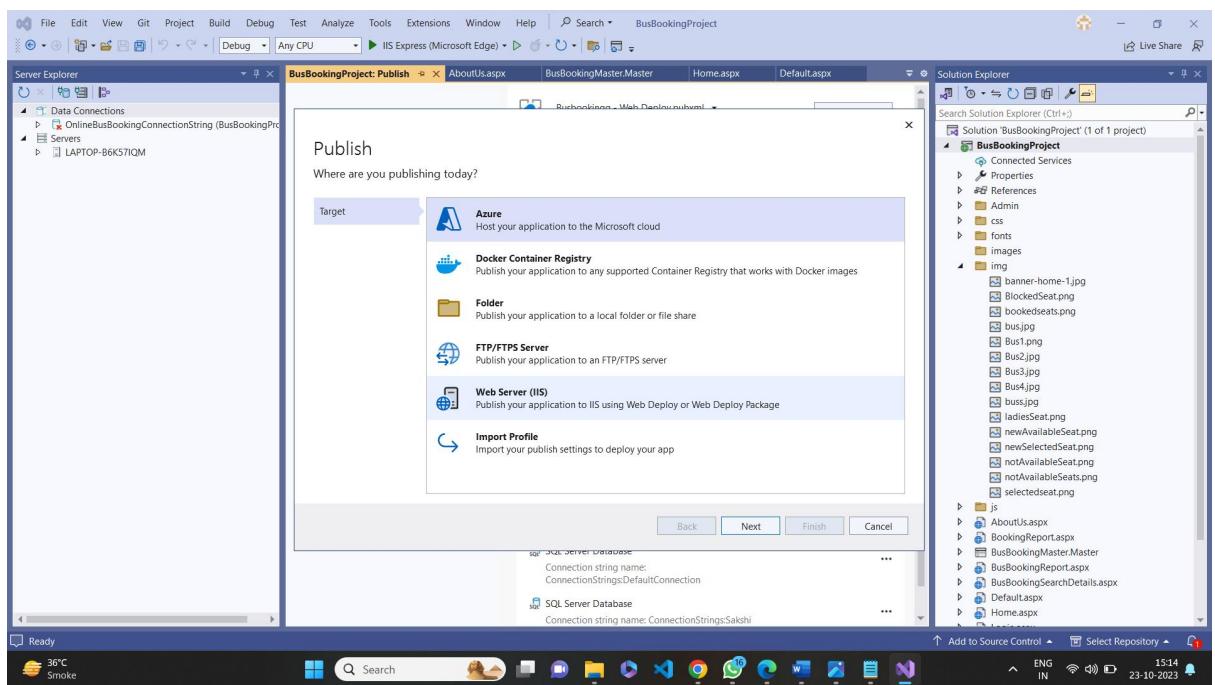
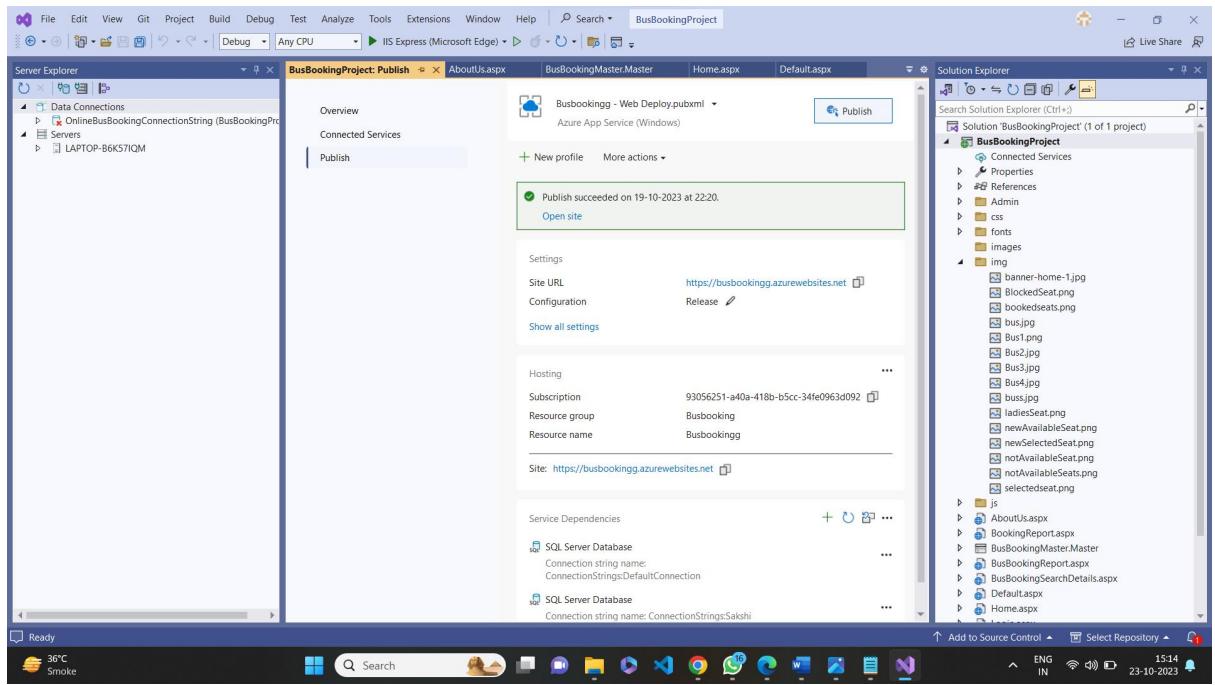
Create | Previous

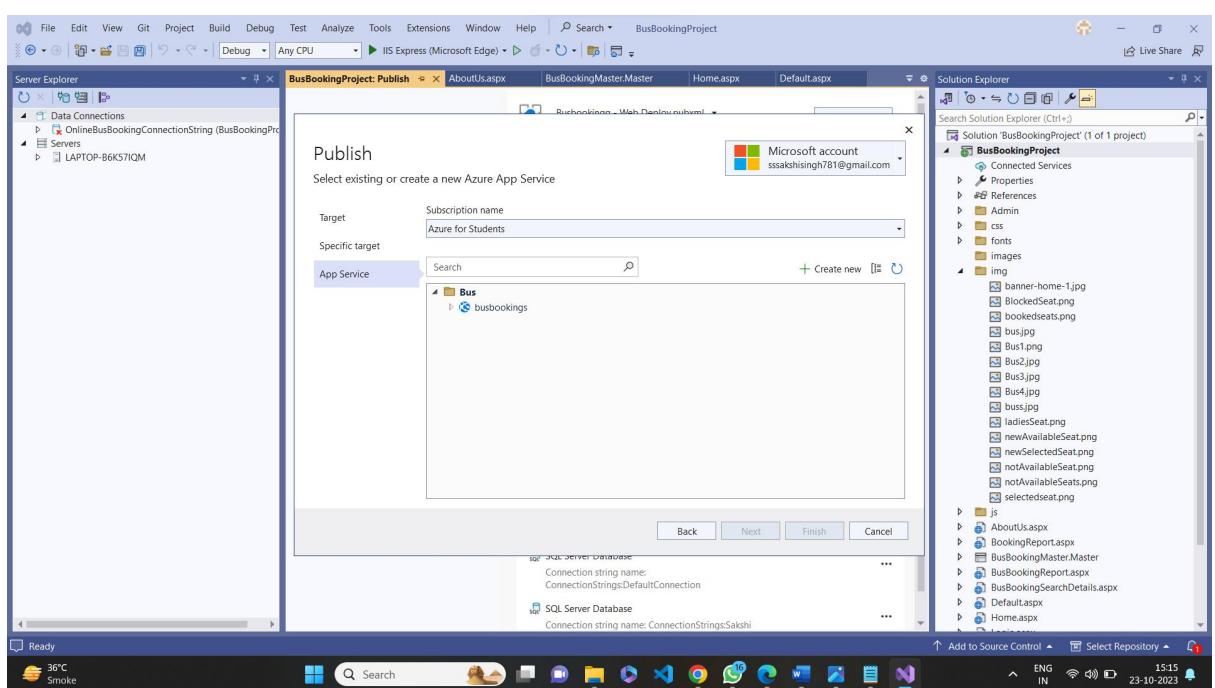
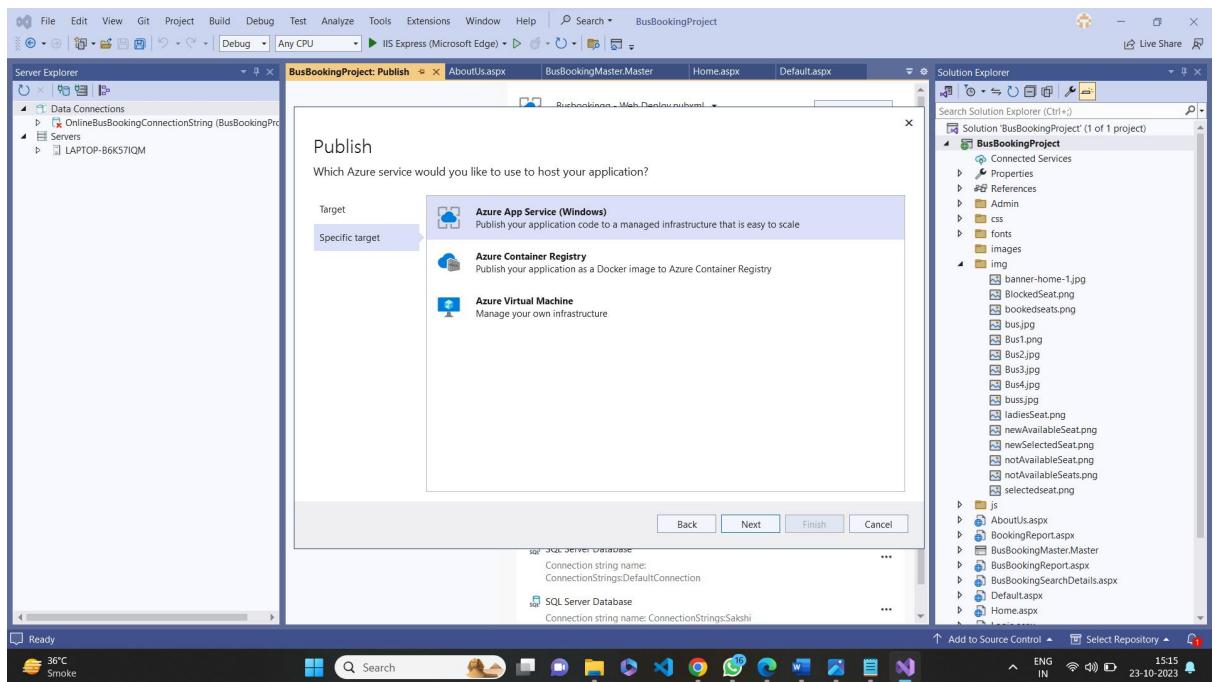
35°C Near record | Search | Start button | Taskbar icons | ENG IN | 16:07 | 23-10-2023

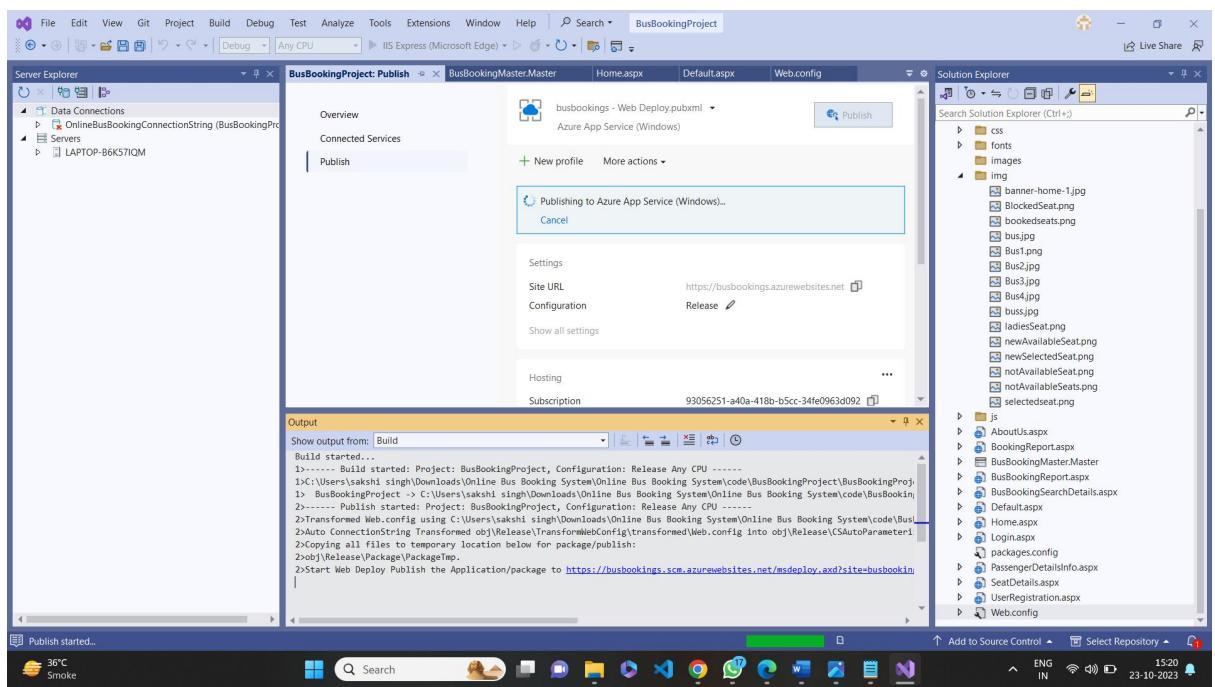
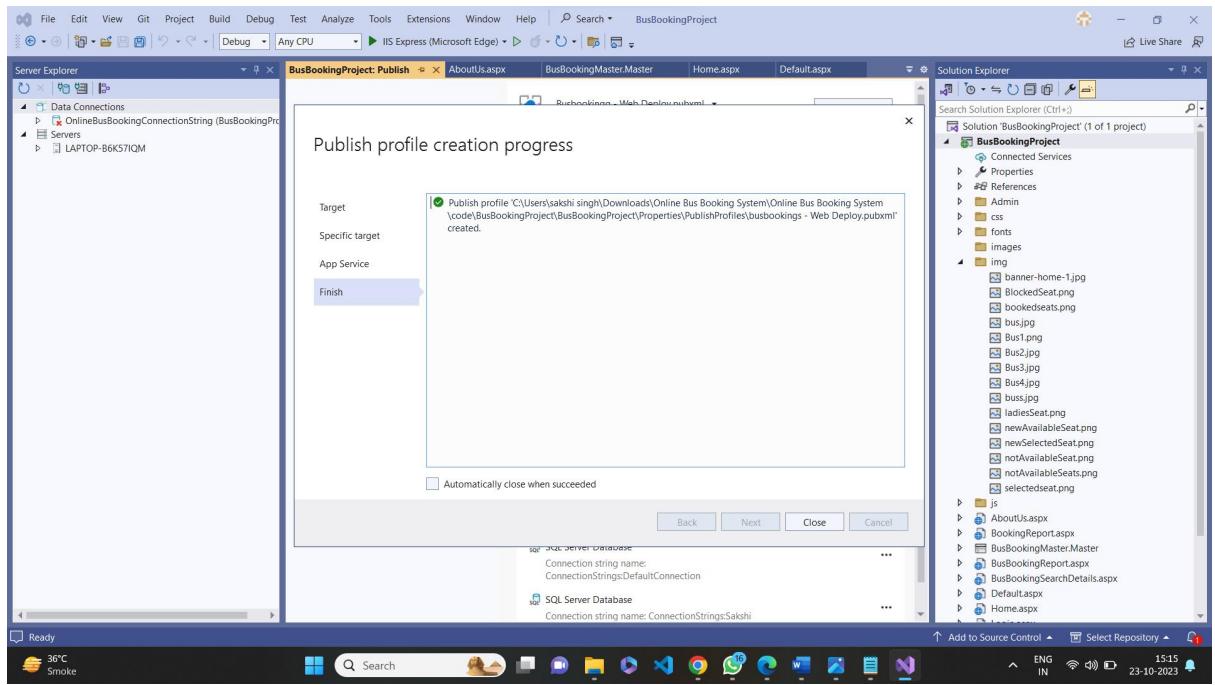
The screenshot shows the Microsoft Azure portal interface. The main title bar says "busbookings - Microsoft Azure". Below it, the sub-page title is "busbookings | Alerts". On the left, there's a navigation sidebar with links like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Deployment slots, Deployment Center, Configuration, Authentication, Application Insights, Identity, Backups, and Custom domains. The main content area has a search bar and a message: "New: View alerts visualized on a timeline for a clearer picture of your events. You can switch between views anytime. [View as timeline \(preview\)](#)". Below this, there are buttons for "View as timeline (preview)", "Create", "Alert rules", "Action groups", "Alert processing rules", "Change user response", "Actions", and "Refresh". A search bar and filter buttons for "Resource name: busbookings", "Time range: Past 24 hours", "Alert condition: Fired", "Severity: all", and "Add filter" are present. A large chart shows alert counts by severity: Critical (0), Error (0), Warning (0), Informational (0), and Verbose (0). Below the chart, there are sorting options: Name (down), Severity (down), Affected resource (down), Alert condition (down), User response (down), and Fire time (down). A central message says "No alerts found" with a note: "Try changing your search or choose a different scope level if you don't see what you're looking for." At the bottom right, there's a system tray with icons for battery, signal, and date/time.

## Steps to publish the website using Visual studio 2022

The screenshot shows Microsoft Visual Studio 2022. The title bar says "BusBookingProject". The main window displays an ASPX file named "Default.aspx" with some code. The Solution Explorer on the right shows a project structure with files like "AboutUs.aspx", "BusBookingMaster.Master", "Home.aspx", and "Web.config". In the Solution Explorer, the "Publish" option is highlighted in the context menu. Other options in the menu include Build, Rebuild, Clean, View, Analyze and Code Cleanup, Configure Application Insights..., Overview, Collapse All Descendants, Scope To This, New Solution Explorer View, Add, Manage NuGet Packages..., Manage Client-Side Libraries..., Configure Startup Projects..., Set as Startup Project, Debug, Initialize Interactive with Project, Cut, Paste, Remove, Rename, Unload Project, Load Direct Dependencies, Load Entire Dependency Tree, Copy Full Path, Open Folder in File Explorer, Open in Terminal, Properties, and Alt+Enter. The status bar at the bottom shows "ENG IN" and the date "23-10-2023".







Online Bus Booking   Home   About Us   Search Buses   Admin   Registration   Login

The screenshot shows the homepage of the 'Online Bus Booking' website. At the top, there is a navigation bar with links for 'Home', 'About Us', 'Search Buses', 'Admin', 'Registration', and 'Login'. Below the navigation bar, there are three main visual elements: a top-left image showing the interior of a bus with rows of black and orange seats; a top-right image of a large, modern blue coach bus parked outdoors; and a bottom-left image of a white and black double-decker bus driving on a road. To the right of the bottom-left image is a dark rectangular box containing the text 'OFFERING GREAT EXPERTISE IN ALL YOUR LAND TRANSPORT NEEDS' in white capital letters, followed by a small amount of descriptive text.

## **Conclusion**

We Successfully created a Online Bus Booking System in Asp.net C#, we used Microsoft Azure Services for our database and also to deploy our Web application.

You can book a bus ticket using this web application, and also you can add your Bus and Bus details in this web Application.