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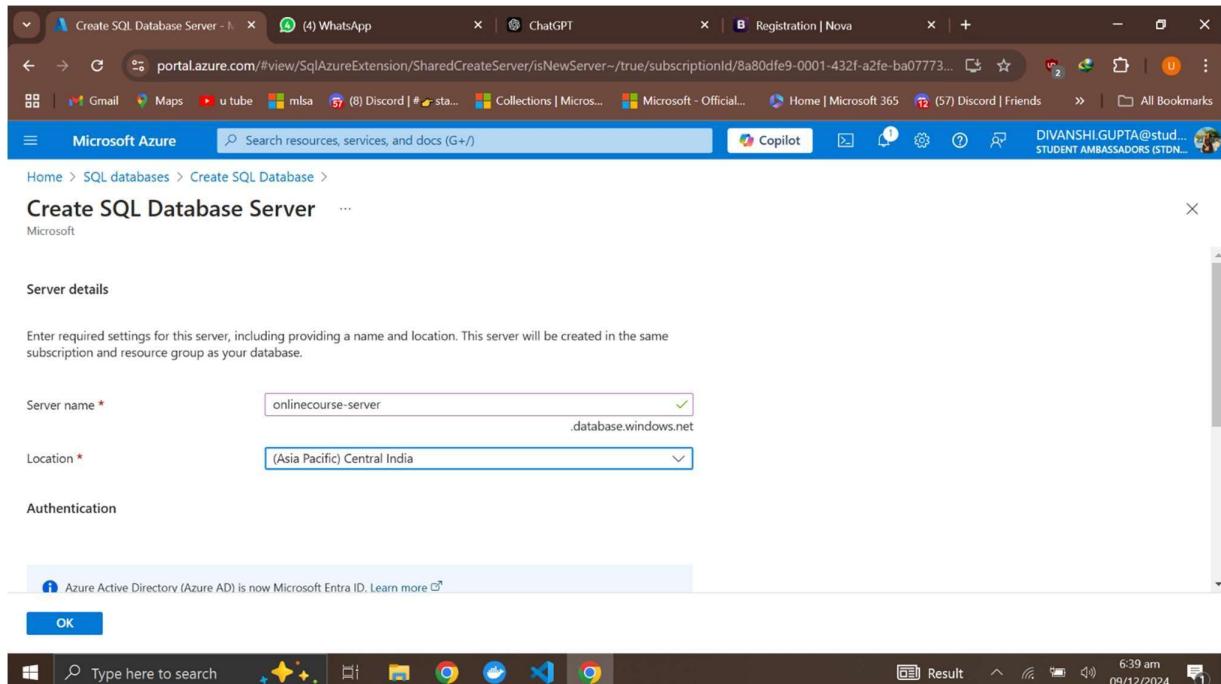
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# MY AZURE ACCOUNT

The image shows two screenshots side-by-side. The left screenshot is the Microsoft Azure portal homepage ([portal.azure.com/#home](https://portal.azure.com/#home)) with a blue header bar. It features a search bar, a Copilot icon, and a user profile for DIVANSHI.GUPTA@student... STUDENT AMBASSADORS (STDN...). Below the header is a section titled "Azure services" with icons for Create a resource, App Services, SQL databases, Static Web Apps, Quickstart Center, Azure AI services, Kubernetes services, Virtual machines, Storage accounts, and More services. The right screenshot is the Microsoft Account settings page ([myaccount.microsoft.com/?ref=MeControl](https://myaccount.microsoft.com/?ref=MeControl)) with a white header bar. It shows a profile picture of DIVANSHI GUPTA, her email address (DIVANSHI.GUPTA@studentambassador.com), and her creation date (2023-10-19T08:58:45.4536633Z). There are sections for Security info (with a link to UPDATE INFO) and Devices.

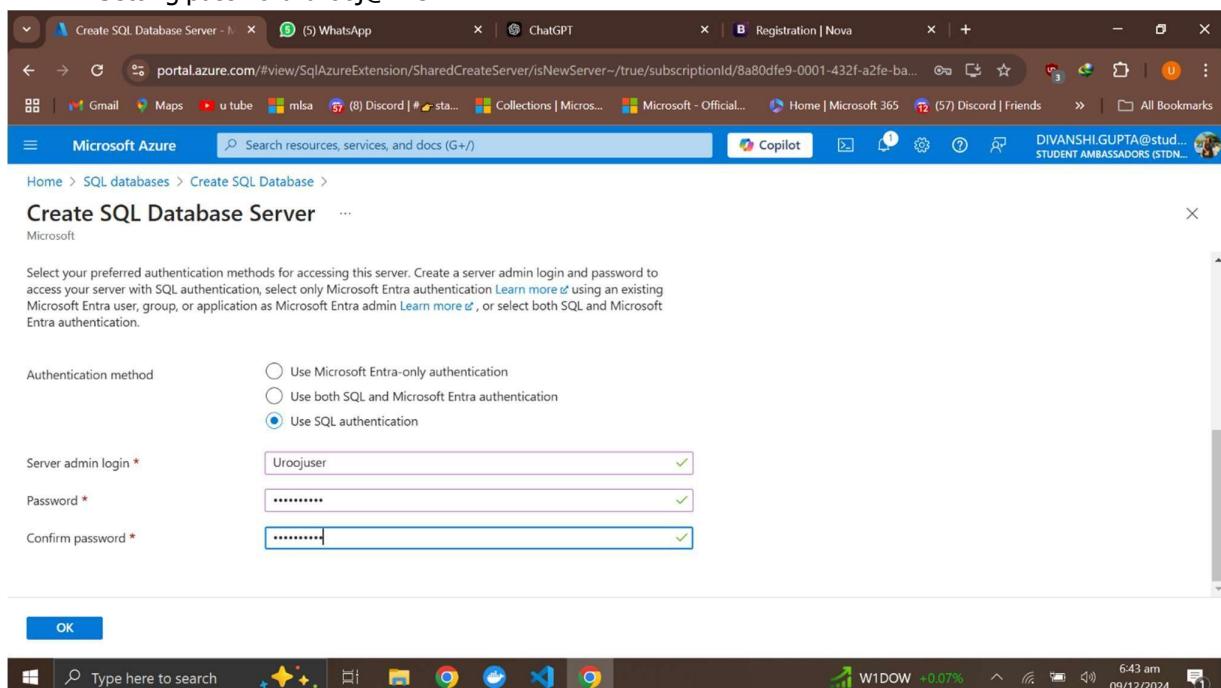
## CREATING DATABASE ON AZURE

- Setting the server name and location



## Using SQL authentication

- Setting Server name as Uroojuser
- Setting password:urooj@1234



## SETTING OTHER CONFIGURATIONS

Microsoft Azure - Create SQL Database - Microsoft Edge

portal.azure.com/#create/Microsoft.SQLDatabase

Microsoft Azure | Microsoft 365 | Home | Microsoft 365 | (57) Discord | Friends | All Bookmarks

Search resources, services, and docs (G+)

Copilot

DIVANSI.GUPTA@student.istdn.in STUDENT AMBASSADORS (ISTDN)

Home > SQL databases >

## Create SQL Database

Microsoft

Server \* (new) onlinecourse-server (Central India)

Want to use SQL elastic pool?  Yes  No

Workload environment  Development  Production

Default settings provided for Development workloads. Configurations can be modified as needed.

Compute + storage \*

Type here to search 10°C Haze 6:50 am 09/12/2024

General Purpose - Serverless  
Standard-series (Gen5), 1 vCore, 32 GB storage, zone redundant disabled

Microsoft Azure - Create SQL Database - Microsoft Edge

portal.azure.com/#create/Microsoft.SQLDatabase

Microsoft Azure | Microsoft 365 | Home | Microsoft 365 | (57) Discord | Friends | All Bookmarks

Search resources, services, and docs (G+)

Copilot

DIVANSI.GUPTA@student.istdn.in STUDENT AMBASSADORS (ISTDN)

Home > SQL databases >

## Create SQL Database

Microsoft

be modified as needed.

Compute + storage \*

Type here to search 10°C Haze 6:50 am 09/12/2024

General Purpose - Serverless  
Standard-series (Gen5), 1 vCore, 32 GB storage, zone redundant disabled

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  Geo-Zone-redundant backup storage

Default settings provided for Development workloads. Configurations can be modified as needed.

# CHECK ALL THE ENETERED DETAILS

**Cost summary**

| General Purpose (GP_S_Gen5_1)            |              |
|--|--------------|
| Cost per GB (in INR)                     | 10.91        |
| Max storage selected (in GB)             | x 41.6       |
| ESTIMATED STORAGE COST / MONTH           | 453.72 INR   |
| COMPUTE COST / VCORE SECOND <sup>1</sup> | 0.013263 INR |

**NOTES**  
1 Serverless databases are billed in vCore seconds based on a combination of CPU and memory utilization. [Learn more about serverless billing](#)

**Compute + storage**  
General Purpose - Serverless: Standard-series (Gen5), 1 vCore, 32 GB storage, zone redundant disabled

**Backup storage redundancy**  
Locally-redundant backup storage

[Create SQL Database - Microsoft](#) [\(5\) WhatsApp](#) [ChatGPT](#) [Registration | Nova](#)

portal.azure.com/#create/Microsoft.SQLDatabase

Microsoft Azure Search resources, services, and docs (G+) Copilot

Home > SQL databases > Create SQL Database

Backup storage redundancy: Locally-redundant backup storage

**Networking**

|  |         |
|--|---------|
| Allow Azure services and resources to access this server | No      |
| Private endpoint   | None    |
| Minimum TLS version                                      | 1.2     |
| Connection Policy  | Default |

**Security**

|   |                              |
|---|------------------------------|
| Identity                                      | Not enabled                  |
| Transparent data encryption (Server level)    | Service-managed key selected |
| Database level customer-managed key           | Not configured               |
| Database level user assigned managed identity | Not configured               |

[Create](#) [< Previous](#) [Download a template for automation](#)

10°C Haze 6:52 am 09/12/2024

[Create SQL Database - Microsoft](#) [\(5\) WhatsApp](#) [ChatGPT](#) [Registration | Nova](#)

portal.azure.com/#create/Microsoft.SQLDatabase

Microsoft Azure Search resources, services, and docs (G+) Copilot

Home > SQL databases > Create SQL Database

**Security**

|   |                              |
|---|------------------------------|
| Identity                                      | Not enabled                  |
| Transparent data encryption (Server level)    | Service-managed key selected |
| Database level customer-managed key           | Not configured               |
| Database level user assigned managed identity | Not configured               |
| Advanced data security                        | Not now                      |
| Always encrypted with secure enclaves         | Not configured               |
| Sql Ledger(Database)                          | Disabled                     |
| Digest Storage                                | Disabled                     |

**Additional settings**

|                   |       |
|-------------------|-------|
| Use existing data | Blank |
|-------------------|-------|

[Create](#) [< Previous](#) [Download a template for automation](#)

10°C Haze 6:52 am 09/12/2024

**Create SQL Database**

Microsoft identity

|                                       |                |
|---------------------------------------|----------------|
| Advanced data security                | Not now        |
| Always encrypted with secure enclaves | Not configured |
| Sql Ledger(Database)                  | Disabled       |
| Digest Storage                        | Disabled       |

**Additional settings**

|                    |                             |
|--------------------|-----------------------------|
| Use existing data  | Blank                       |
| Collation          | SQL_Latin1_General_CI_AS    |
| Maintenance window | System default (5pm to 8am) |

**Tags**

**Create** < Previous Download a template for automation

## CLECK CREATE

**Create SQL Database**

Microsoft identity

|                                       |                |
|---------------------------------------|----------------|
| Advanced data security                | Not now        |
| Always encrypted with secure enclaves | Not configured |
| Sql Ledger(Database)                  | Disabled       |
| Digest Storage                        | Disabled       |

**Additional settings**

|                    |                             |
|--------------------|-----------------------------|
| Use existing data  | Blank                       |
| Collation          | SQL_Latin1_General_CI_AS    |
| Maintenance window | System default (5pm to 8am) |

**Tags**

Validating... < Previous Download a template for automation

## DATABASE DEPLOYMENT IS IN WAY TO COMPLETE

Microsoft Azure | Microsoft SQL Database Overview

Deployment name : Microsoft.SQLDatabase.newD... Start time : 12/9/2024, 6:53:06 AM  
Subscription : Visual Studio Enterprise Subs... Correlation ID : 29160f65-a8c2-4c64-a9a6-a9...  
Resource group : nova-onlinecoursewebsite

Deployment details

| Resource          | Type                  | Status   | Operat |
|-------------------|-----------------------|----------|--------|
| onlinecourse-s... | Microsoft.Sql/servers | Accepted | Operat |

Give feedback

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Microsoft Azure | Microsoft SQL Database Overview

Subscription : Visual Studio Enterprise Subs... Correlation ID : 29160f65-a8c2-4c64-a9a6-a9...  
Resource group : nova-onlinecoursewebsite

Deployment details

| Resource           | Type                            | Status   | Operat |
|--------------------|---------------------------------|----------|--------|
| onlinecourse-s...  | Microsoft.Sql/servers/databases | Accepted | Operat |
| onlinecourse-serve | Microsoft.Sql/servers/connectio | OK       | Operat |
| onlinecourse-serve | Microsoft.Sql/servers           | Created  | Operat |

Give feedback

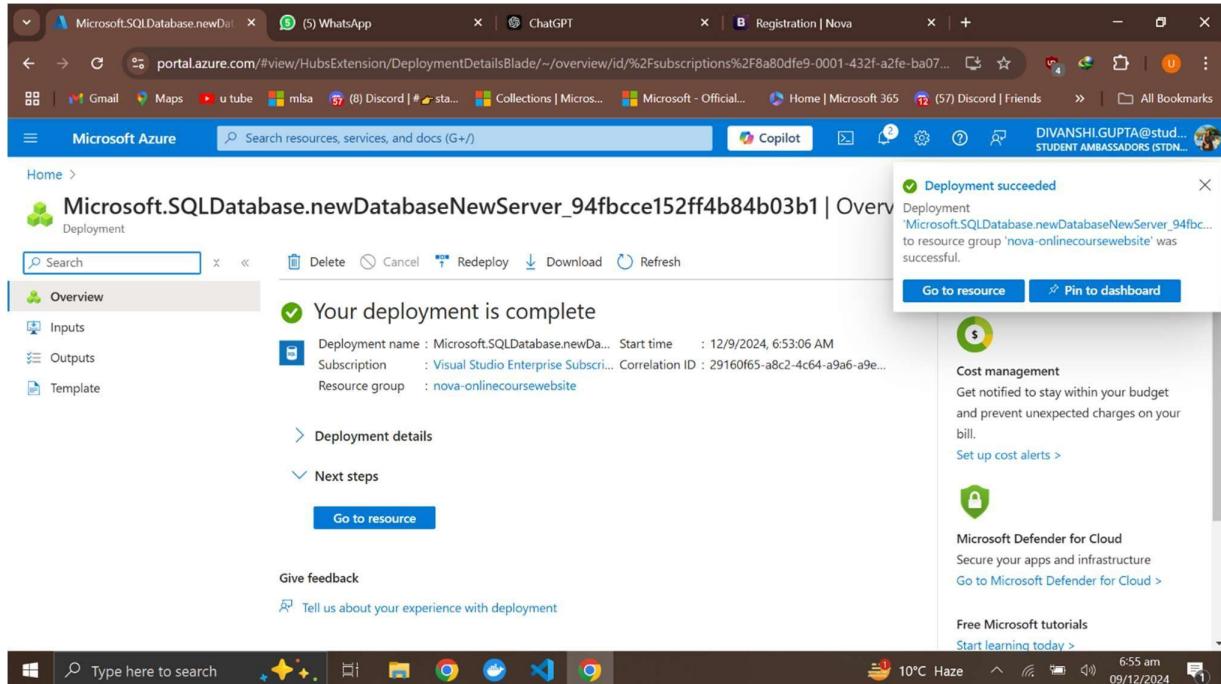
Tell us about your experience with deployment

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# DEPLOYMENT SUCCEEDED



## ENTERING DB DETAILS IN MY CODE

- Entering my Database Admin Username
- Entering my Database Password
- Entering Server name
- Entering my database name
- Entering the port in which my backend server run on local host

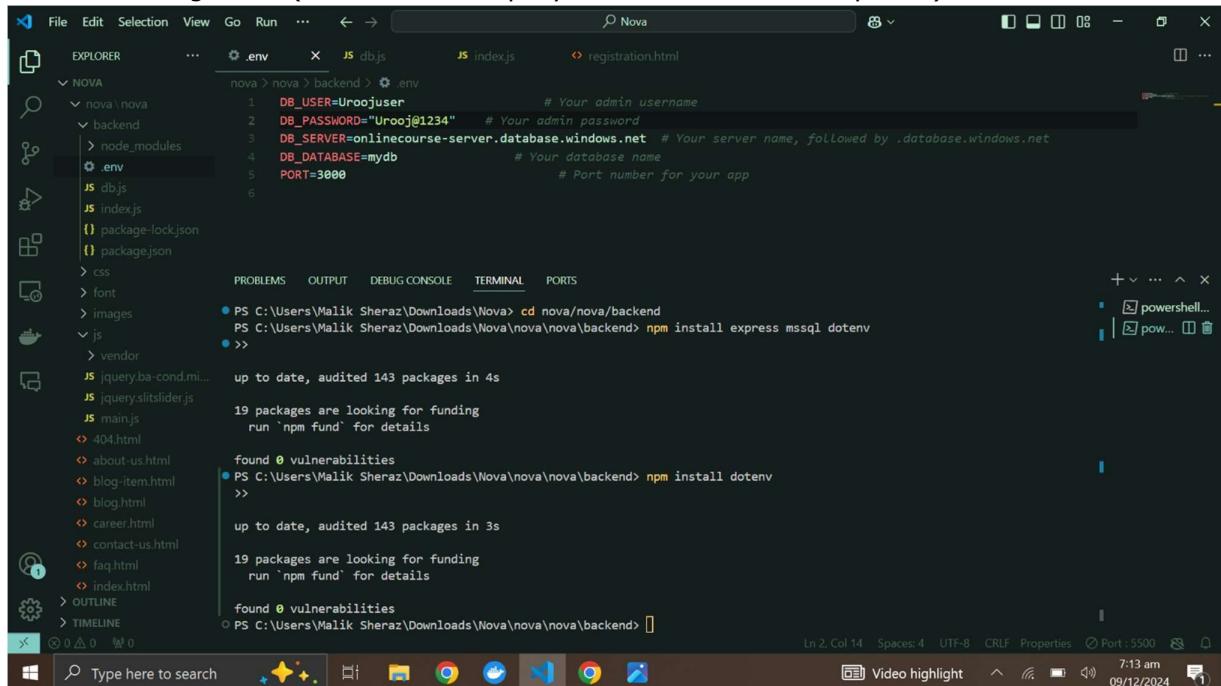
The screenshot shows the Nova code editor with an open file named ".env" in the "backend" directory. The code contains environment variables for a database connection:

```
DB_USER=UroojUser          # Your admin username
DB_PASSWORD="Urooj@1234"    # Your admin password
DB_SERVER=onlinecourse-server.database.windows.net # Your server name, followed by .database.windows.net
DB_DATABASE=mydb            # Your database name
PORT=3000                  # Port number for your app
```

The Nova interface includes a sidebar with file navigation and a bottom status bar showing the current file path, line count, and other details.

# INSTALLATIONS

- Installing mssql for my azure sql server database
- Installing dotenv(for .env file to keep my db sensitive information private)

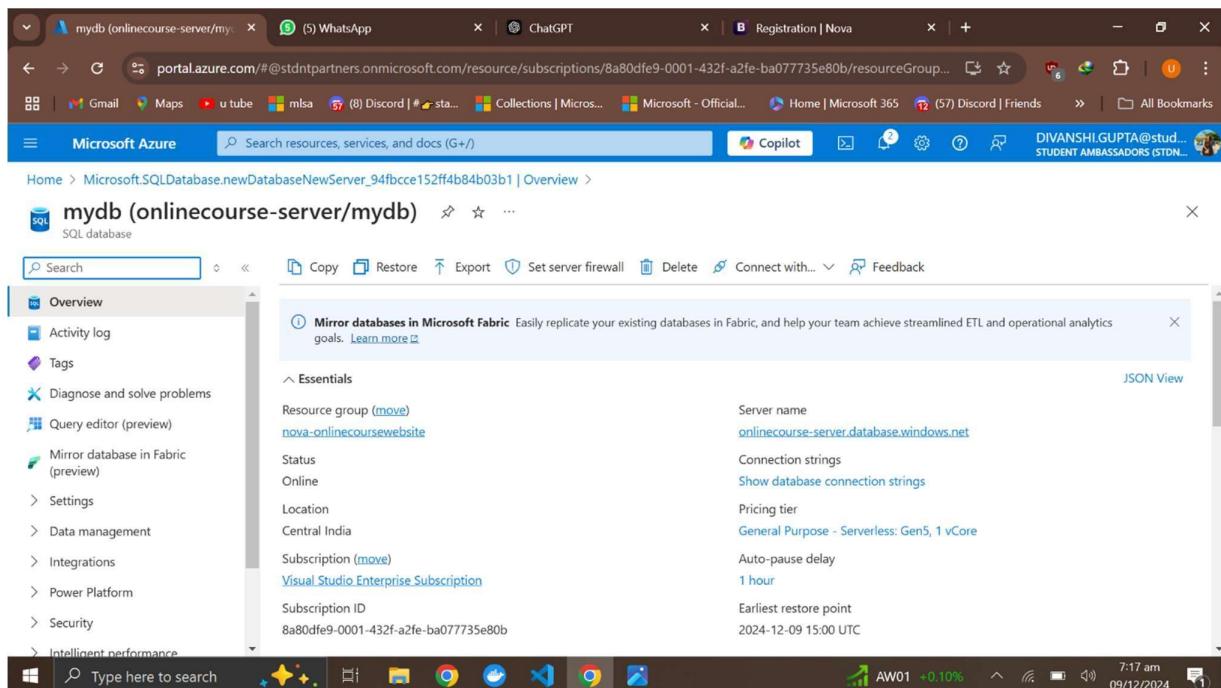


The screenshot shows the Nova code editor interface. The left sidebar displays a project structure with files like `.env`, `db.js`, `index.js`, and `registration.html`. The main editor area shows a `.env` file with the following content:

```
DB_USER=Uroojuser          # Your admin username
DB_PASSWORD="Urooj@1234"    # Your admin password
DB_SERVER=onlinecourse-server.database.windows.net # Your server name, followed by .database.windows.net
DB_DATABASE=mydb            # Your database name
PORT=3000                  # Port number for your app
```

Below the editor, the terminal tab shows the command line output of running `npm install express mssql dotenv` in the directory `C:\Users\Malik Sheraz\Downloads\Nova\nova\nova\backend`. The output indicates that 143 packages were audited and 19 packages are looking for funding.

## OVERVIEW OF MY CREATED DATABASE



The screenshot shows the Microsoft Azure portal with the URL `portal.azure.com/#@stdnpartners.onmicrosoft.com/resource/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/resourceGroup.../mydb`. The page title is `mydb (onlinecourse-server/mydb) - SQL database`.

The left sidebar contains a navigation menu with options like Overview, Activity log, Tags, Diagnose and solve problems, Query editor (preview), Mirror database in Fabric (preview), Settings, Data management, Integrations, Power Platform, Security, and Intelligent performance.

The main content area displays the database details under the `Overview` tab. It includes sections for `Mirror databases in Microsoft Fabric`, `Essentials`, and `JSON View`. Key details shown include:

- Resource group:** nova-onlinecoursewebsite
- Status:** Online
- Location:** Central India
- Subscription:** Visual Studio Enterprise Subscription
- Server name:** onlinecourse-server.database.windows.net
- Pricing tier:** General Purpose - Serverless: Gen5, 1 vCore
- Auto-pause delay:** 1 hour
- Earliest restore point:** 2024-12-09 15:00 UTC

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes links for mydb (onlinecourse-server/mydb), WhatsApp, ChatGPT, Registration | Nova, and other Microsoft services like Gmail, Maps, YouTube, and Microsoft 365. The user's profile, DIVANSI GUPTA@student.istdn..., is visible on the right.

The main page displays the details for the 'mydb' SQL database. Key information includes:

- Overview**: Shows the database is online, located in Central India, and part of a Visual Studio Enterprise Subscription.
- Subscription ID**: 8a80dfe9-0001-432f-a2fe-ba077735e80b.
- Pricing tier**: General Purpose - Serverless: Gen5, 1 vCore.
- Auto-pause delay**: 1 hour.
- Earliest restore point**: 2024-12-09 15:00 UTC.

The 'Getting started' section provides links to Connect with..., Monitoring, Properties, Features, Notifications (0), Integrations, and Tutorials. A 'Start working with your database' section encourages connecting to the database.

This screenshot is nearly identical to the one above, showing the same Azure portal interface and 'mydb' database details. The main difference is in the 'Start working with your database' section, which now includes three call-to-action buttons:

- Configure access**: Configure network access to your SQL server.
- Connect to application**: Use connection strings to connect to your SQL database from your applications and favorite tools.
- Start developing**: Work in your database by using tools to add, modify and query data.

The bottom of the screen shows the Windows taskbar with various pinned icons and the system tray indicating the date and time as 09/12/2024 at 7:17 am.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes links for mydb (onlinecourse-server/mydb), WhatsApp, ChatGPT, Registration | Nova, and other Azure services like Gmail, Maps, YouTube, mlsa, Discord, Collections, Microsoft 365, Home | Microsoft 365, and Friends. The user's email, DIVANSI.GUPTA@student.istone.com, is also visible. The main content area is titled 'mydb (onlinecourse-server/mydb)' and shows the 'Overview' tab selected. It contains sections for 'Configure access', 'Connect to application', and 'Start developing'. Under 'Configure access', there is a 'Configure' button. Under 'Connect to application', there are buttons for 'See connection strings', 'Open Azure Data Studio', 'Open in Visual Studio', and 'Open in Visual Studio Code'. Under 'Start developing', there is a 'Mirror database in Fabric' section with a 'Configure' button. The left sidebar lists various management options: Activity log, Tags, Diagnose and solve problems, Query editor (preview), Mirror database in Fabric (preview), Settings, Data management, Integrations, Power Platform, Security, and Intelligent performance.

## SETTING MY DEVICE IP IN FIREWALL

- Goto DB Server
- Under security Goto Networking
- Add Client Ipv4 address
- Add Start Ipv4 and End Ipv4 address
- Then Click Save

The screenshot shows the Microsoft Azure portal interface, similar to the previous one but focused on a different resource. The top navigation bar and user information are identical. The main content area is titled 'onlinecourse-server | Networking' and shows the 'Networking' tab selected. It displays sections for 'Virtual networks' and 'Firewall rules'. Under 'Virtual networks', there is a note: 'default, no public IP addresses are allowed.' with a 'Learn more' link. A message box says: 'Please save public network access value before adding new virtual networks.' Under 'Firewall rules', there is a note: 'Allow certain public internet IP addresses to access your resource.' with a 'Learn more' link. Buttons for '+ Add your client IPv4 address (103.57.225.122)' and '+ Add a firewall rule' are present. The left sidebar lists various management options, including 'Networking' which is highlighted.

The screenshot shows the Microsoft Azure portal interface for managing networking settings for a SQL server named 'onlinecourse-server'. The left sidebar navigation includes 'Overview', 'Activity log', 'Access control (IAM)', 'Tags', 'Quick start', 'Diagnose and solve problems', 'Settings', 'Data management', and 'Security'. Under 'Security', 'Networking' is selected. The main content area displays 'Firewall rules' and 'Exceptions'. A rule has been added with the following details:

| Rule name                         | Start IPv4 address | End IPv4 address |
|-----------------------------------|--------------------|------------------|
| ClientIPAddress_2024-12-9_7-19-40 | 103.57.225.122     | 103.57.225.122   |

At the bottom of the page are 'Save' and 'Discard' buttons. The status bar at the bottom right shows the date as 09/12/2024 and the time as 7:19 am.

This screenshot is identical to the one above, showing the Microsoft Azure Networking settings for the 'onlinecourse-server' SQL server. It displays the same 'Firewall rules' and 'Exceptions' sections, with a single rule added. The rule details are as follows:

| Rule name                         | Start IPv4 address | End IPv4 address |
|-----------------------------------|--------------------|------------------|
| ClientIPAddress_2024-12-9_7-19-40 | 103.57.225.122     | 103.57.225.122   |

The status bar at the bottom right shows the date as 09/12/2024 and the time as 7:20 am.

# WEBSITE TO GET MY SYSTEM'S IP

My IP Address is:

IPv4: [103.57.225.122](#)

IPv6: [Checking...](#)

My IP Information:

|          |                                  |
|----------|----------------------------------|
| ISP:     | Future Telecom (Private) Limited |
| City:    | Abbottabad                       |
| Region:  | Khyber Pakhtunkhwa               |
| Country: | Pakistan                         |

Your location may be exposed!

[HIDE MY IP ADDRESS NOW](#)

[Show Complete IP Details](#)

Location not accurate? [Update My IP Location](#)

Click for more details about 103.57.225.122

7:20 am 09/12/2024

- Successfully updated server firewall rules
- Successfully updated server public network access
- Successfully updated server exceptions

Successfully updated server exceptions

Successfully updated server exceptions for server onlinecourse-server

Successfully updated server firewall rules

Successfully updated server firewall rules for server onlinecourse-server

Successfully updated server public network access

Successfully updated server public network access for server onlinecourse-server

onlinecourse-server | Networking

Firewall rules

Add your client IPv4 address (103.57.225.122)

Rule name: ClientIPAddress\_2024-12-9-7-19-40

Start IPv4 address: 103.57.225.122

End IPv4 address: 103.57.225.122

Exceptions

Allow Azure services and resources to access this server

Save Discard

Networking

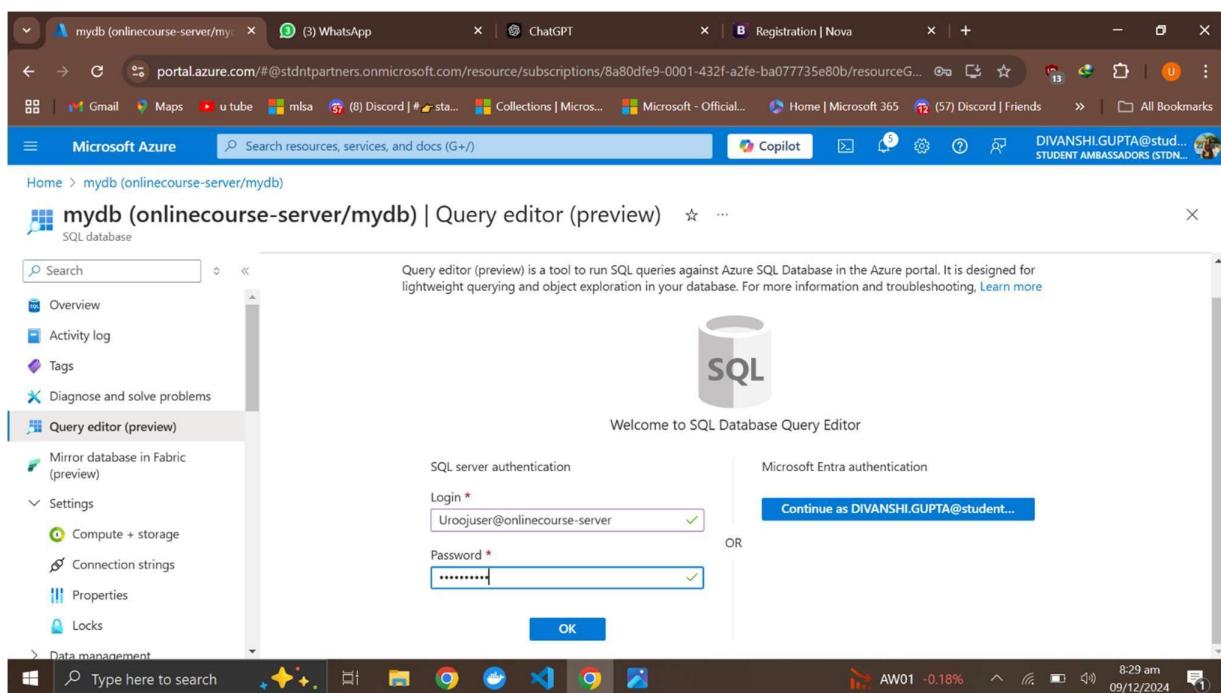
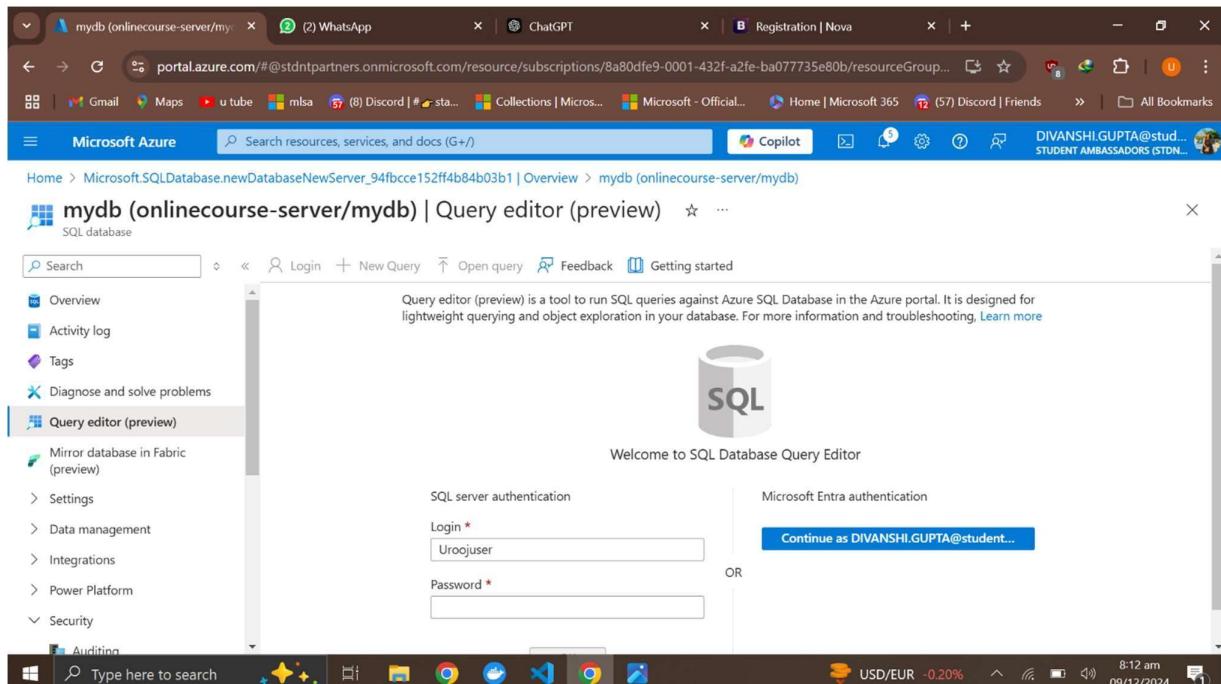
Microsoft Defender for Cloud

Transparent data

9°C Haze 7:21 am 09/12/2024

# OPENING QUERY EDITOR

- Goto mydb
- Goto Query Editor to create tables and then enter data.
- For every time you want to accesss database you need to login
- We have two option we will go for SQL server authentication
- We will enter login and password
- Then Click Ok.



# ALSO CHECKING FOR MICROSOFT ENTRA ID

- But going to use only SQL server Authentication

The screenshot shows the Microsoft Entra ID interface. On the left, there's a sidebar with options like Overview, Activity log, Access control (IAM), Tags, Quick start, Diagnose and solve, Settings, Microsoft Entra, SQL databases, SQL elastic pool, Properties, and Locks. The main area has a search bar and a table with columns Name, Type, and Email. A message at the top says "Try changing or adding filters if you don't see what you're looking for." The table shows three groups: "abcd123" (selected, highlighted in grey), "admin", and "aks-group". A "Select" button is at the bottom. On the right, a sidebar titled "Selected item (1)" shows "abcd123" with the email "abcd123@stdnpartners.onmicrosoft.com". The status bar at the bottom shows the date and time: 9:19 am 09/12/2024.

The screenshot shows the Azure SQL Database configuration for the "master" database. The left sidebar includes Overview, Activity log, Access control (IAM), Settings, Automation, Help, and a "SQL" icon. The main form has fields for Name ("master (onlinecourse-server/master)"), Resource type ("Microsoft.Sql/servers/databases"), Kind ("v12.0.system"), Location ("Central India"), Location ID ("centralindia"), and Resource ID ("/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/resourceGroups/nova-onlinecoursewebsit..."). The status bar at the bottom shows the date and time: 9:25 am 09/12/2024.

The screenshot shows the Microsoft Entra admin center interface. On the left, there's a navigation sidebar with options like Home, What's new, Diagnose & solve problems, Favorites, Identity, Overview, Users, Groups, Devices, Announcements, Learn & support, and My feed. The main content area is titled "Student Ambassadors" and displays basic information about the tenant, including Name (Student Ambassadors), Tenant ID (84c31ca0-ac3b-4eae-ad11-519d80233e6f), Primary domain (stdnpartners.onmicrosoft.com), License (Microsoft Entra ID Basic for EDU), Users (33,780), Groups (3,436), Applications (7,867), and Devices (15,303). Below this, there are sections for Alerts and My feed. The top navigation bar has tabs for Add, Manage tenants, What's new, Preview features, and Got feedback?.

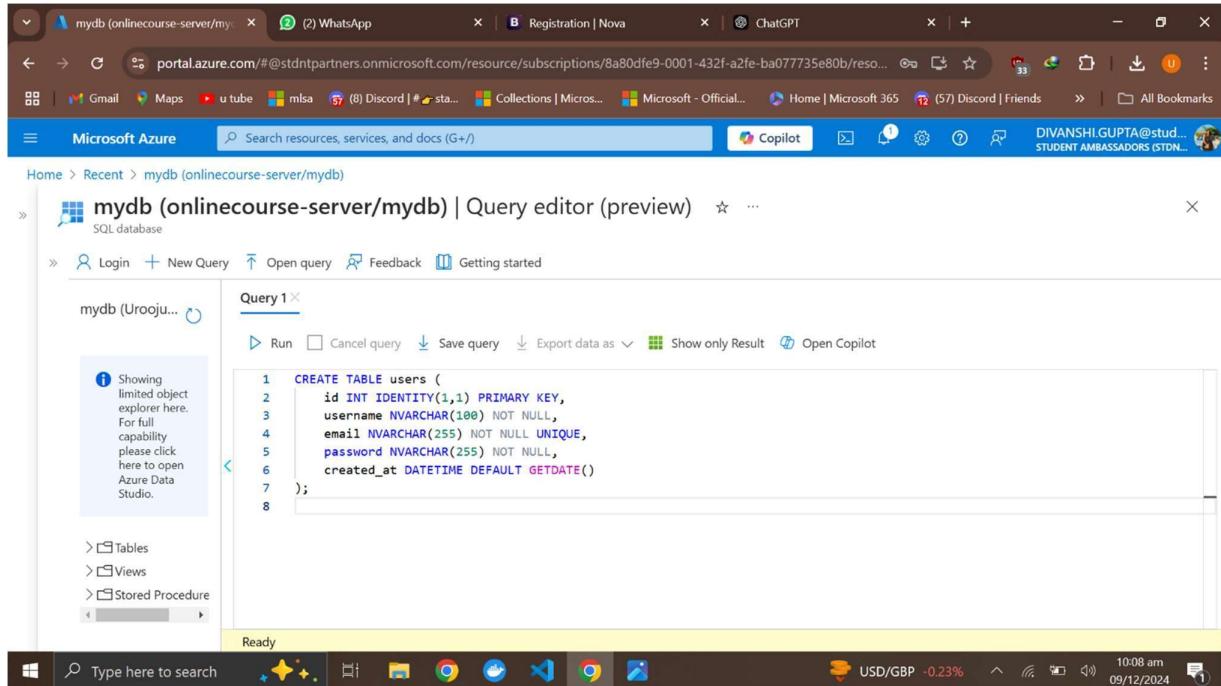
## AFTER LOGIN QUERY EDITOR OPENED

The screenshot shows the Microsoft Azure Query editor (preview) for the database "mydb". The left sidebar lists various database management options: Overview, Activity log, Tags, Diagnose and solve problems, Query editor (preview), Mirror database in Fabric (preview), Settings (Compute + storage, Connection strings, Properties, Locks), and Data management. The "Query editor (preview)" option is selected. The main pane is titled "Query 1" and contains a query editor with a "Run" button and other toolbar options. Below the editor is a results pane with a search bar. The status bar at the bottom indicates it's "Ready". The top navigation bar shows the URL as portal.azure.com/#/resource/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/resourceGroups/stdnpartners.onmicrosoft.com/providers/Microsoft.DBforMySQL服... and includes tabs for Registration | Nova, Copilot, and other Microsoft services.

## QUERY WRITING

- Writing the query to create table
- I have set my table name as user

- Setting the column names: id as PK
- Username , email ,Password
- The last query is to get the default date and time in which the data is stored in database table



The screenshot shows the Microsoft Azure Query editor interface. The left sidebar displays a tree view for the 'mydb' database, showing 'Tables', 'Views', and 'Stored Procedure'. The main area is titled 'Query 1' and contains the following SQL code:

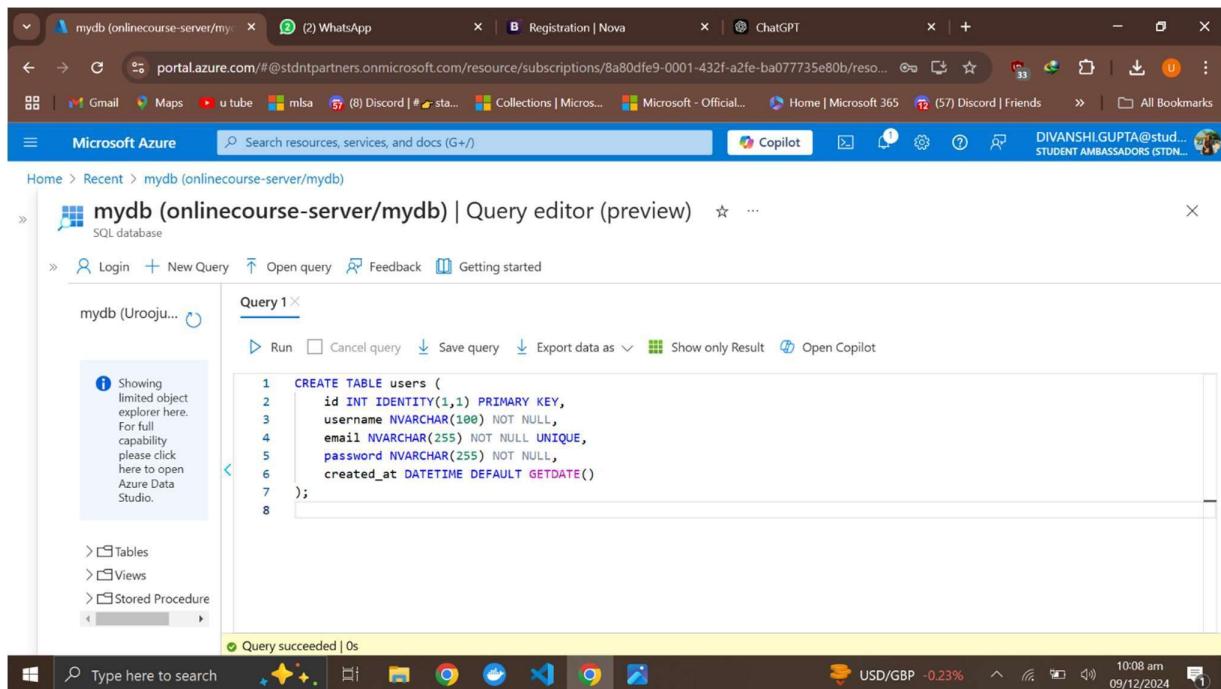
```

1 CREATE TABLE users (
2     id INT IDENTITY(1,1) PRIMARY KEY,
3     username NVARCHAR(100) NOT NULL,
4     email NVARCHAR(255) NOT NULL UNIQUE,
5     password NVARCHAR(255) NOT NULL,
6     created_at DATETIME DEFAULT GETDATE()
7 );
8

```

Below the code, the status bar indicates 'Ready'. The top navigation bar shows the URL 'portal.azure.com/#@stdnpartners.onmicrosoft.com/resource/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/reso...', the account 'DIVANSI GUPTA@student...', and the date '09/12/2024'.

## RUNNING QUERY WITH RETURNING QUERY SUCCEEDED 0s



This screenshot is identical to the previous one, showing the Microsoft Azure Query editor interface. The left sidebar and main query area are the same. The status bar at the bottom now shows 'Query succeeded | 0s', indicating the execution was successful. The top navigation bar and account information remain the same.

- RETURNING THE RESULT OF QUERY IN MESSAGES SECTION

The screenshot shows the Microsoft Azure Query editor interface. The title bar reads "mydb (onlinecourse-server/mydb) | Query editor (preview)". The left sidebar shows a tree view of database objects: "mydb (Urooj...)" expanded to show "Tables", "Views", and "Stored Procedure". The main area has two tabs: "Results" and "Messages". The "Messages" tab is selected, displaying the message "Query succeeded: Affected rows: 0". A status bar at the bottom indicates "Query succeeded | 0s". The system tray at the bottom right shows the date and time as "09/12/2024 10:09 am".

## LEFT SIDE WE CAN SEE RESULTS

- Table created with users table having id as pk .
- Username ,email,password should not be repeated.

The screenshot shows the Microsoft Azure Query editor interface. The title bar reads "mydb (onlinecourse-server/mydb) | Query editor (preview)". The left sidebar shows a tree view of database objects: "mydb (Urooj...)" expanded to show "Tables", "Views", and "Stored Procedures". The "Tables" node is expanded to show "dbo.users" with columns: "id (PK, int, not null)", "username (nvarchar, not null)", "email (nvarchar, not null)", "password (nvarchar, not null)", and "created\_at (datetime, null)". The "Views" node is expanded to show "sys.database\_firewall\_rules". The main area has two tabs: "Results" and "Messages". The "Results" tab is selected, displaying a table with columns: "id", "name", "start\_ip\_address", "end\_ip\_address", "create\_date", and "modify\_c". The table is empty, showing "No results". A status bar at the bottom indicates "Query succeeded | 0s". The system tray at the bottom right shows the date and time as "09/12/2024 10:10 am".

The screenshot shows the Microsoft Azure Query editor interface. At the top, there are several tabs: 'mydb (onlinecourse-server/mydb)', '(2) WhatsApp', 'Registration | Nova', and 'ChatGPT'. Below the tabs, the address bar shows 'portal.azure.com/#@stdtnpartners.onmicrosoft.com/resource/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/reso...'. The main header says 'mydb (onlinecourse-server/mydb) | Query editor (preview)' and 'SQL database'. The left sidebar lists 'Tables' (including 'dbo.users' with columns: id (PK, int, not null), username (nvarchar, not null), email (nvarchar, not null), password (nvarchar, not null), created\_at (datetime, null)) and 'Views' (including 'sys.database\_firewall\_rules'). The right side has a 'Results' tab showing a table with columns: name, start\_ip\_address, end\_ip\_address, create\_date, and modify\_date. A message at the bottom of the results table says 'Query succeeded | 0s'. The bottom status bar shows the date '09/12/2024' and time '10:10 am'.

## STARTING BACKEND SERVER

The screenshot shows the Visual Studio Code (VS Code) interface with the Nova project open. The Explorer sidebar shows files like '.env', 'db.js', 'index.js', 'index.html', 'logo.png', 'registration.html', and various HTML files for the Nova application. The terminal tab shows the command line output:

```
File Edit Selection View Go Run ... ← → ⌂ Nova
EXPLORER .env JS db.js JS index.js indexhtml ✘ logo.png registration.html
nova > nova > index.html > html.no.js > head > title
1  <!DOCTYPE html>
2  <!--[if lt IE 7]>      <html class="no-js lt-ie9 lt-ie8 lt-ie7"> <![endif]-->
3  <!--[if IE 7]>        <html class="no-js lt-ie9 lt-ie8"> <![endif]-->
4  <!--[if IE 8]>        <html class="no-js lt-ie9"> <![endif]-->
5  <!--[if gt IE 8]><!--> <html class="no-js"> <!--<![endif]-->
6  <head>
7    <meta charset="utf-8">
8    <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
9    <title>Home | Nova</title>
...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
19 packages are looking for funding
run `npm fund` for details
found 0 vulnerabilities
PS C:\Users\Malik Sheraz\Downloads\Nova\nova\backend> node index.js
Server running on http://localhost:3000
Database Connection Failed! Error: TypeError: The "config.server" property is required and must be of type string.
  at new Connection (C:\Users\Malik Sheraz\Downloads\Nova\nova\backend\node_modules\tedious\lib\connection.js:276:13)
)
  at C:\Users\Malik Sheraz\Downloads\Nova\nova\backend\node_modules\mssql\lib\tedious\connection-pool.js:78:19
  at new Promise (<anonymous>)
  at ConnectionPool._poolCreate (C:\Users\Malik Sheraz\Downloads\Nova\nova\backend\node_modules\mssql\lib\tedious\connection-pool.js:67:12)
  at ConnectionPool._connect (C:\Users\Malik Sheraz\Downloads\Nova\nova\backend\node_modules\mssql\lib\base\connection-pool.js:446:18)
  at C:\Users\Malik Sheraz\Downloads\Nova\nova\backend\node_modules\mssql\lib\base\connection-pool.js:418:19
  at new Promise (<anonymous>)
  at ConnectionPool.connect (C:\Users\Malik Sheraz\Downloads\Nova\nova\backend\node_modules\mssql\lib\base\connection-pool.js:171:12)
Ln 9, Col 23  Spaces: 4  UTF-8  LF  HTML  Port : 5500  AW01 -0.25%  10:16 am  09/12/2024
```

The screenshot shows the Nova code editor interface. The left sidebar displays a project structure for a 'NOVA' project, which contains a 'nova' folder, a 'backend' folder, and several files like db.js, index.js, logo.png, and package.json. The main editor area shows a .env file with the following content:

```
DB_USER=Uroojuser      # Your admin username
DB_PASSWORD=uurooj@1234  # Your admin password
DB_SERVER=onlinecourse-server.database.windows.net # Your server name, followed by .database.windows.net
DB_DATABASE=mydb        # Your database name
PORT=3000               # Port number for your app
```

Below the editor, a terminal window shows the command PS C:\Users\Malik Sheraz\Downloads\Nova\nova\nova\backend> node index.js being run, with the output "Server running on http://localhost:3000" and "Connected to SQL Server!". The status bar at the bottom indicates the file has 2 lines, 13 columns, and is in UTF-8 encoding.

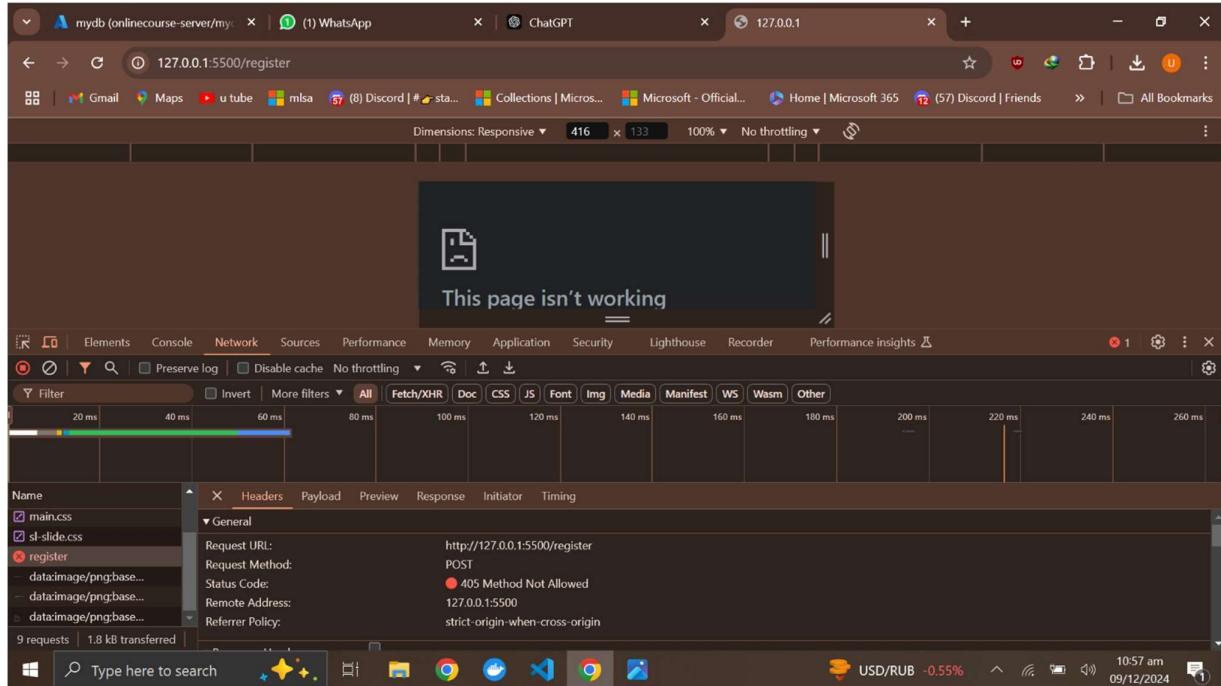
## BACKEND OPENED IN BROWSER SUCCESSFULLY



## ERROR FACED DURING REGISTRATION

- Right click on browser screen
- Goto inspect
- Goto network

- Click on Registration
- If I see 200 it means it has succeeded and if see 400 to 500 means not succeeded and facing an error.



## INSTALLING NPM CORS TO REMOVE ERROR

The screenshot shows the Nova code editor interface. The left sidebar displays a project structure with files like 'nova', 'images', 'js', 'vendor', '404.html', 'about-us.html', etc. The main editor area shows the content of 'registration.html'.

```

<!--[if gt IE 8]><!--> <html class="no-js"> <!--<![endif]-->
<body>
  <section class="title">
    <div class="container">
      </div>
    </div>
  </section>
<!-- .title -->

<section id="registration-page" class="container">
  <form class="center" action="http://localhost:3000/register" method="POST">
    <fieldset class="registration-form">
      <div class="control-group">
        <input type="text" name="username" placeholder="Username" />
      </div>
      <div class="control-group">
        <input type="password" name="password" placeholder="Password" />
      </div>
      <div class="control-group">
        <input type="checkbox" name="remember_me" checked="" /> Remember Me
      </div>
      <div class="control-group">
        <input type="submit" value="Register" />
      </div>
    </fieldset>
  </form>
</section>

```

The terminal at the bottom shows the command being run:

```

Node.js v22.12.0
PS C:\Users\Malik Sheraz\Downloads\Nova\nova\nova\backend> npm install cors
>>>
added 2 packages, and audited 145 packages in 3s

19 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
PS C:\Users\Malik Sheraz\Downloads\Nova\nova\nova\backend>

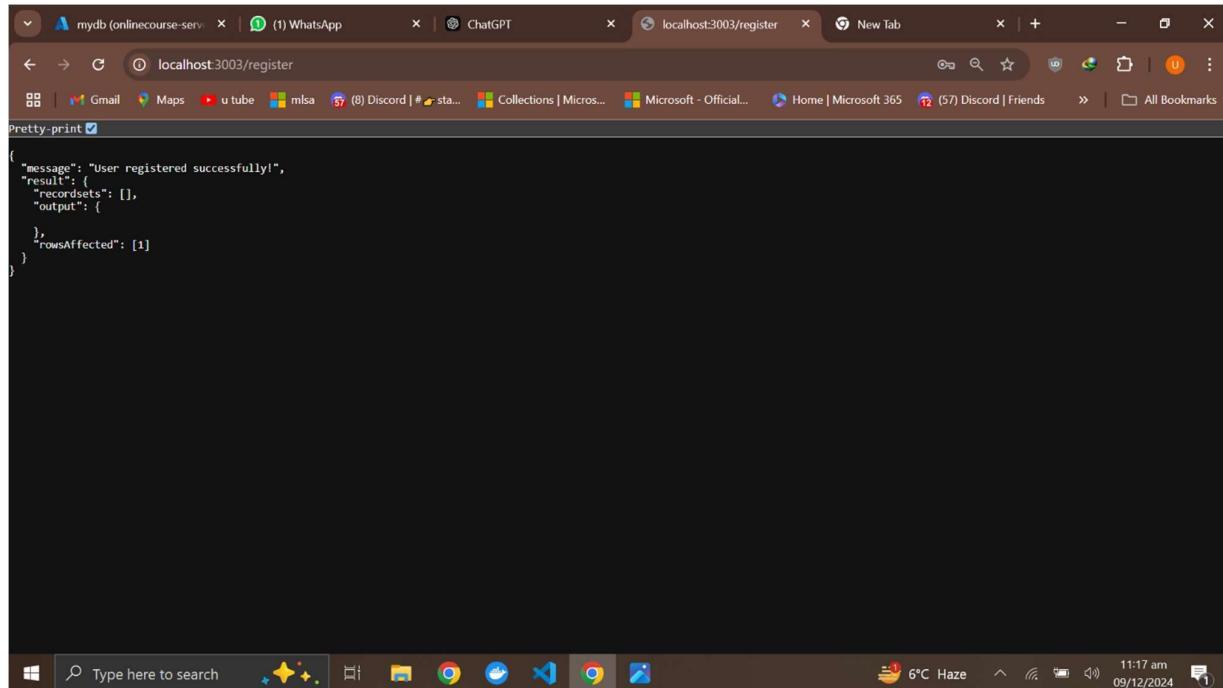
```

# USER REGISTERED SUCCESSFULLY

Goto website ,then navigate to registration page

Enter data

You can see User registered successfully

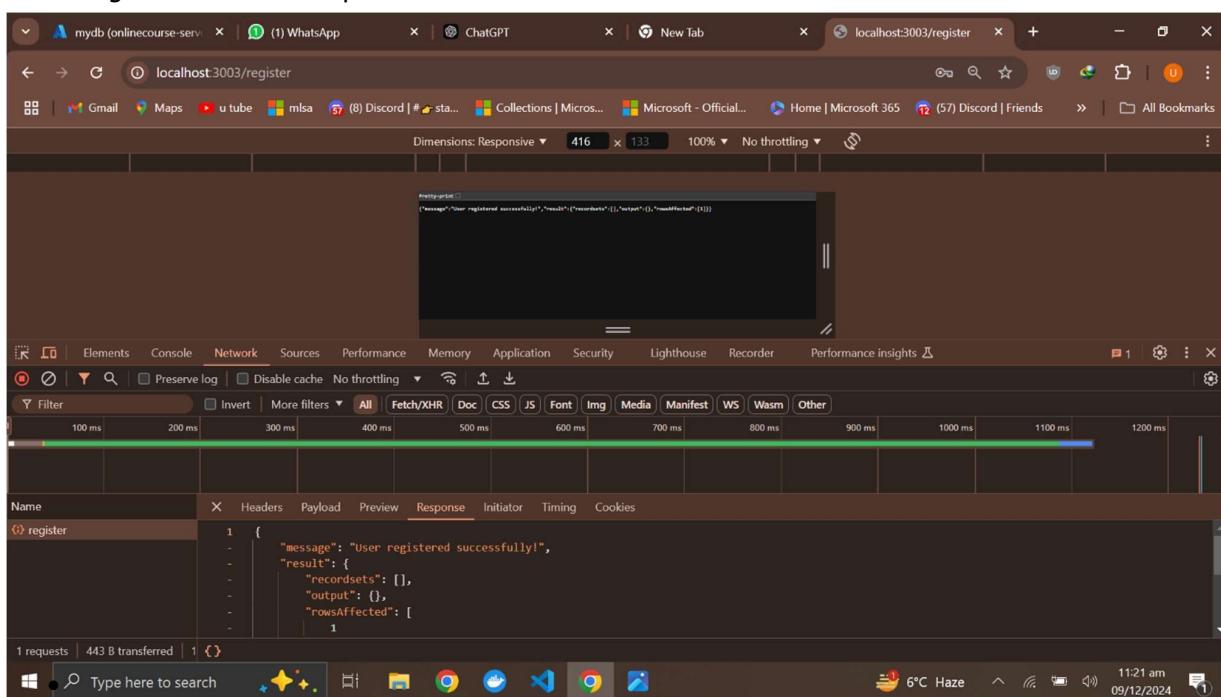


A screenshot of a Microsoft Edge browser window. The address bar shows 'localhost:3003/register'. The main content area displays a JSON response with a 'message' field containing 'User registered successfully!', an empty 'result' object, an empty 'records' array, an empty 'output' object, and a 'rowsAffected' array with a single element [1]. The browser's taskbar at the bottom shows various pinned icons like Gmail, Maps, YouTube, and Microsoft Office.

```
{"message": "User registered successfully!", "result": {}, "records": [], "output": {}, "rowsAffected": [1]}
```

## SEE BY INSPECTING

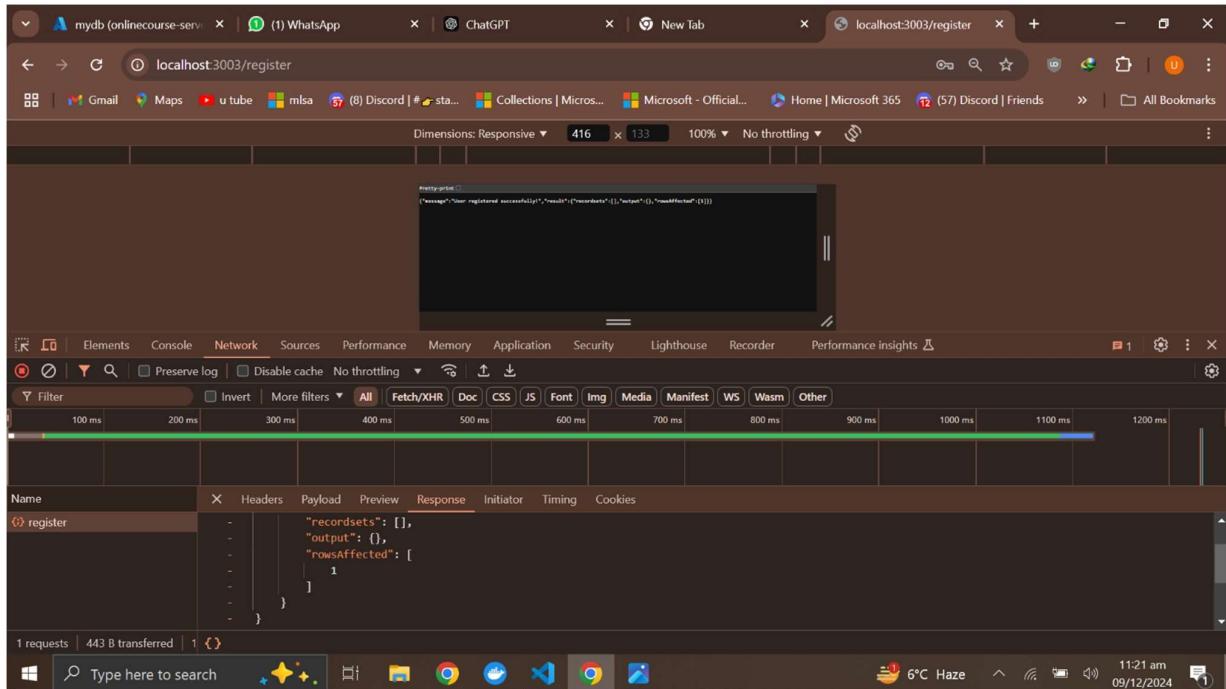
- Again done all the steps to check



A screenshot of a Microsoft Edge browser window with developer tools open. The Network tab is selected, showing a single request named 'register'. The response section of the Network tab displays the same JSON data as the previous screenshot. The browser's taskbar at the bottom shows various pinned icons.

| Name     | Headers | Payload | Preview | Response   | Initiator | Timing | Cookies |
|----------|---------|---------|---------|--|-----------|--------|---------|
| register | 1       |         |         | {"message": "User registered successfully!", "result": {}, "records": [], "output": {}, "rowsAffected": [1]} |           |        |         |

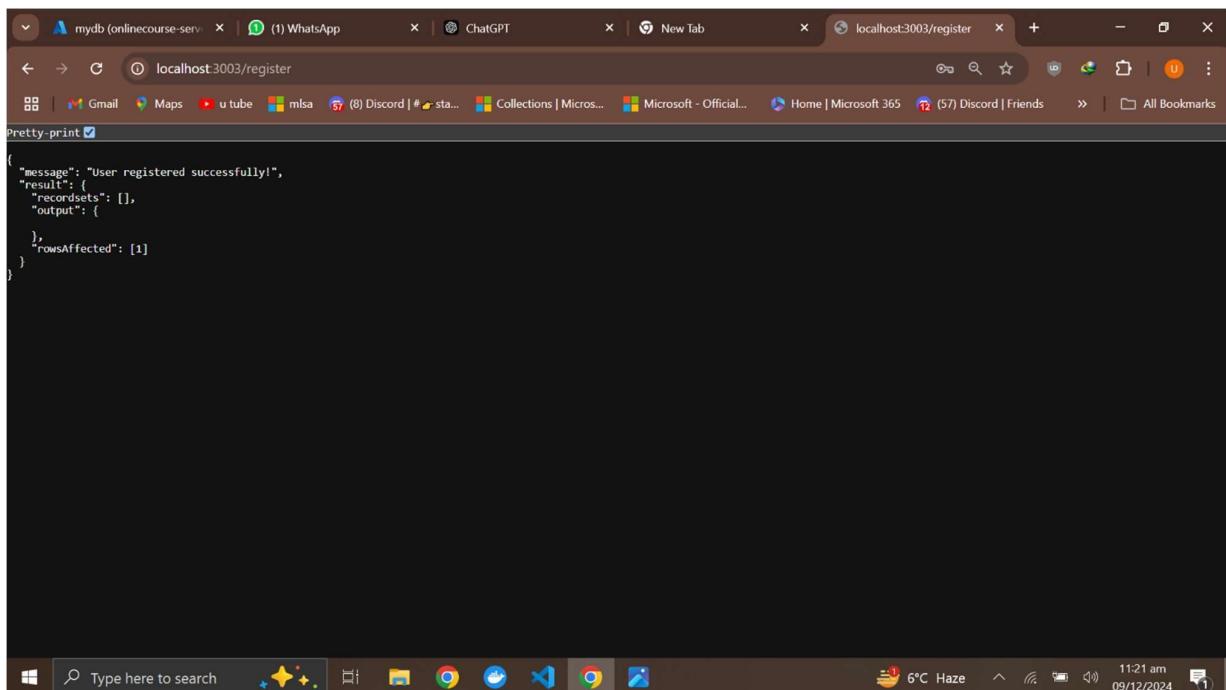
```
{"message": "User registered successfully!", "result": {}, "records": [], "output": {}, "rowsAffected": [1]}
```



```
Pretty-print [+] "message": "User registered successfully!", "result": {"recordsAffected": 1}, "output": {}, "rowsAffected": 1
```

The screenshot shows a browser window with multiple tabs open. The active tab is 'localhost:3003/register'. Below the tabs is the Windows taskbar with various pinned icons. The main content area displays the browser's developer tools, specifically the Network tab. A single request is listed under the 'register' endpoint. The response payload is shown in a JSONpretty-printed format:

```
Pretty-print [+] "message": "User registered successfully!", "result": {"recordsAffected": 1}, "output": {}, "rowsAffected": 1
```



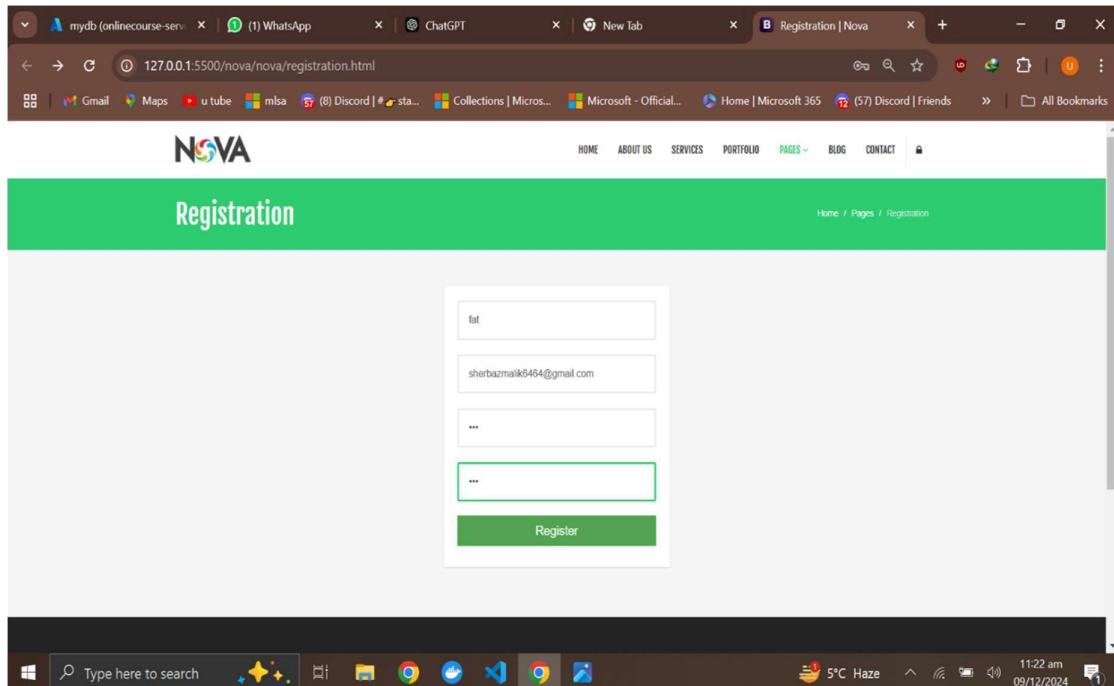
```
Pretty-print [+] "message": "User registered successfully!", "result": {"recordsAffected": 1}, "output": {}, "rowsAffected": 1
```

This screenshot is identical to the one above, showing the same browser setup and developer tools interface. The Network tab displays a single request to 'register' with the following JSON response:

```
Pretty-print [+] "message": "User registered successfully!", "result": {"recordsAffected": 1}, "output": {}, "rowsAffected": 1
```

## ENTERING DATA IN WEBSITE IN REGISTRATION PAGE

- Click on register



ENTERED DATA IS STORED SUCCESSFULLY IN AZURE DB

The screenshot shows the Microsoft Azure portal's Query editor for the "mydb" database. The interface includes a top navigation bar with the Azure logo, search bar, and user information. Below this is a toolbar with "Login", "New Query", "Open query", "Feedback", and "Getting started". The main area is titled "Query 1" and contains a table with the following data:

| id | username | email                      | password        | created_at                  |
|----|----------|----------------------------|-----------------|-----------------------------|
| 1  | TestUser | test@example.com           | TestPassword123 | 2024-12-09T18:35:22.5470000 |
| 2  | daniel   | malikzeeshan5670@gmail.com | 444             | 2024-12-09T19:17:51.0930000 |
| 4  | fat      | sherbazmalik6464@gmail.com | 555             | 2024-12-09T19:21:22.4700000 |

At the bottom of the editor, a message says "Query succeeded | 0s". The browser's address bar shows the URL "portal.azure.com/#/resource/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/resourceGroups/mydb/providers/Microsoft.DBforMySQL服...". The taskbar at the bottom of the screen shows various pinned icons.

# INSTALLING NPM

The screenshot shows the Nova IDE interface with the terminal tab active. The terminal window displays the following command and its execution:

```
PS C:\Users\Malik Sheraz\Downloads\Nova\nova\nova\backend> npm install
up to date, audited 145 packages in 2s
19 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
```

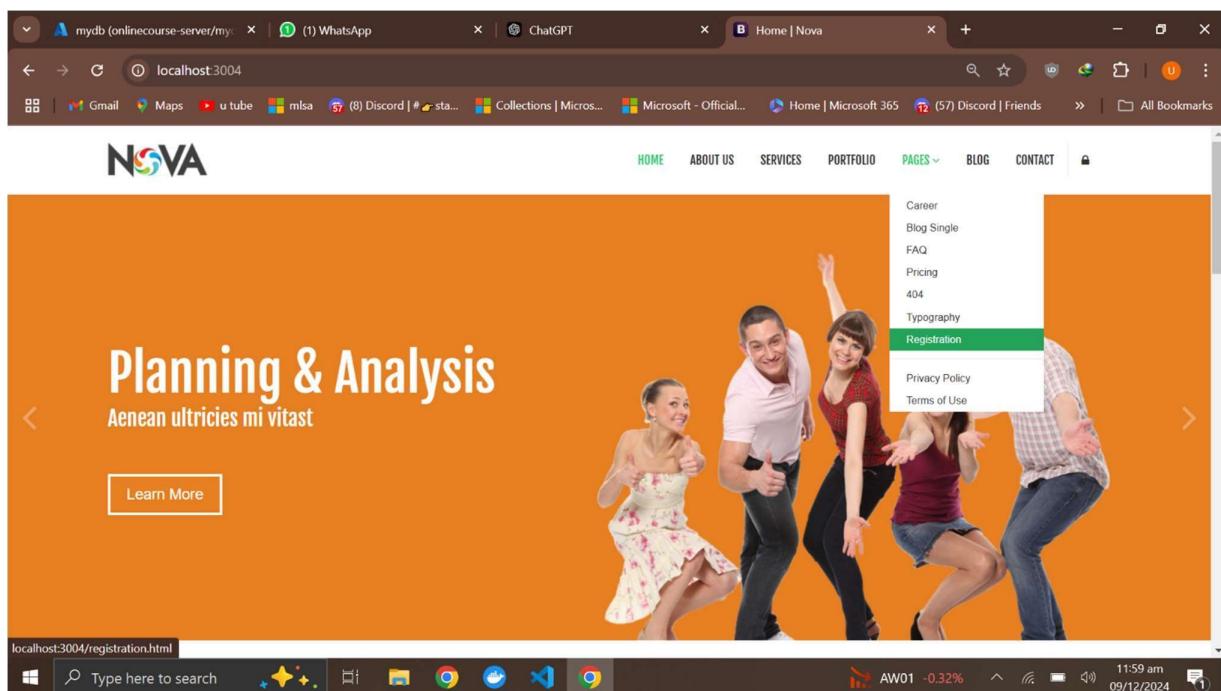
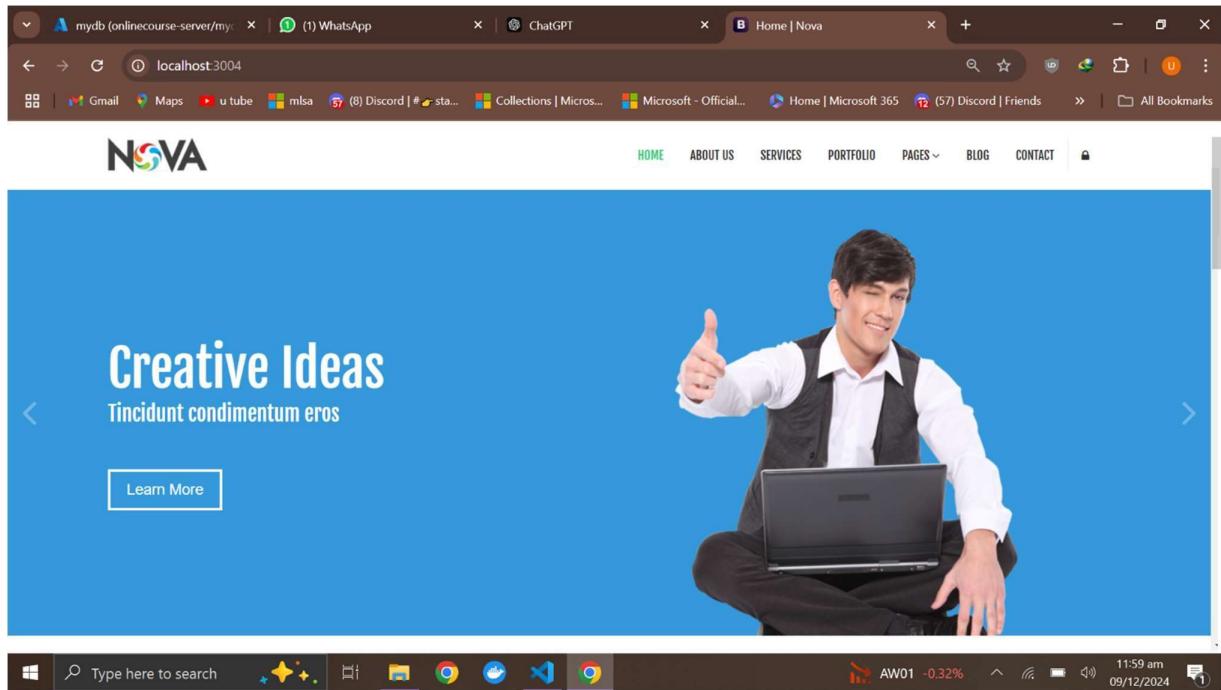
The status bar at the bottom indicates the file is a JavaScript file (L16, Col 3), the terminal port is 5500, and the current time is 11:51 am on 09/12/2024.

The screenshot shows the Nova IDE interface with the terminal tab active. The terminal window displays the following command and its execution:

```
PS C:\Users\Malik Sheraz\Downloads\Nova\nova\nova\backend> node index.js
Server running on http://localhost:3004
Connected to SQL Server!
```

The status bar at the bottom indicates the file is a JavaScript file (L50, Col 38), the terminal port is 5500, and the current time is 11:59 am on 09/12/2024.

## STEPS TO NAVIGATE TO REGISTRATION PAGE



## LOOK OF STORED DATABASE

The screenshot shows the Microsoft Azure Query editor interface for a SQL database named 'mydb'. The table 'Tables' contains the following data:

| id | username | email                      | password        | created_at                  |
|----|----------|----------------------------|-----------------|-----------------------------|
| 1  | TestUser | test@example.com           | TestPassword123 | 2024-12-09T18:35:22.5470000 |
| 2  | daniel   | maliqzeshan5670@gmail.com  | 444             | 2024-12-09T19:17:51.0930000 |
| 4  | fat      | sherbazmalik6464@gmail.com | 555             | 2024-12-09T19:21:22.4700000 |
| 5  | daniel   | fatimamalik0051@gmail.com  | 1212            | 2024-12-09T19:46:58.6200000 |
| 6  | zeeshan  | qasamali7986@gmail.com     | 456             | 2024-12-09T20:00:36.7630000 |

## CREATING BACKEND APP FOR DEPLOYMENT ON CLOUD(AZURE)

The screenshot shows the 'Create Web App' wizard in the Azure portal. The 'Review + create' step is selected. The configuration includes:

- Web App by Microsoft**
- Premium V3 (P0V3) sku**  
Estimated price - 3629.05 INR/Month
- Basic authentication for this app is currently disabled and may impact deployments.**
- Details**
  - Subscription: 8a80dfe9-0001-432f-a2fe-ba077735e80b
  - Resource Group: nova-onlinecoursewebsite
- Buttons:** Create, < Previous, Next >, Download a template for automation

Linux Plan (Central India) \* (New) ASP-novaonlinecoursewebsite-820d  
Create new

Pricing plan Premium V3 P0V3 (195 minimum ACU/vCPU, 4 GB memory, 1 vCPU)  
Explore pricing plans

Zone redundancy

An App Service plan can be deployed as a zone redundant service in the regions that support it. This is a deployment time only decision. You can't make an App Service plan zone redundant after it has been deployed [Learn more](#)

Enabled: Your App Service plan and the apps in it will be zone redundant. The minimum App Service plan instance count will be three.  
 Disabled: Your App Service Plan and the apps in it will not be zone redundant. The minimum App Service plan instance count will be one.

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

Learn more

Linux Plan (Central India) \* (New) ASP-novaonlinecoursewebsite-820d  
Create new

Pricing plan Premium V3 P0V3 (195 minimum ACU/vCPU, 4 GB memory, 1 vCPU)  
Explore pricing plans

Zone redundancy

An App Service plan can be deployed as a zone redundant service in the regions that support it. This is a deployment time only decision. You can't make an App Service plan zone redundant after it has been deployed [Learn more](#)

Enabled: Your App Service plan and the apps in it will be zone redundant. The minimum App Service plan instance count will be three.  
 Disabled: Your App Service Plan and the apps in it will not be zone redundant. The minimum App Service plan instance count will be one.

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

## SETTING RUNTIME STACK

Setting runtime stack as node 18 LTS according to my node version

Azure SQL Registration Setup X Create Web App - Microsoft Azure X +

portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure Search resources, services, and docs (G+) Copilot

DIVANSI GUPTA@student.istdn... STUDENT AMBASSADORS (STDN...)

Home > App Services > Create Web App ...

Publish \*  Code  Container

Runtime stack \* Node 18 LTS

Operating System \* Linux  Windows

Region \* Central India

Not finding your App Service Plan? Try a different region or select your App Service Environment.

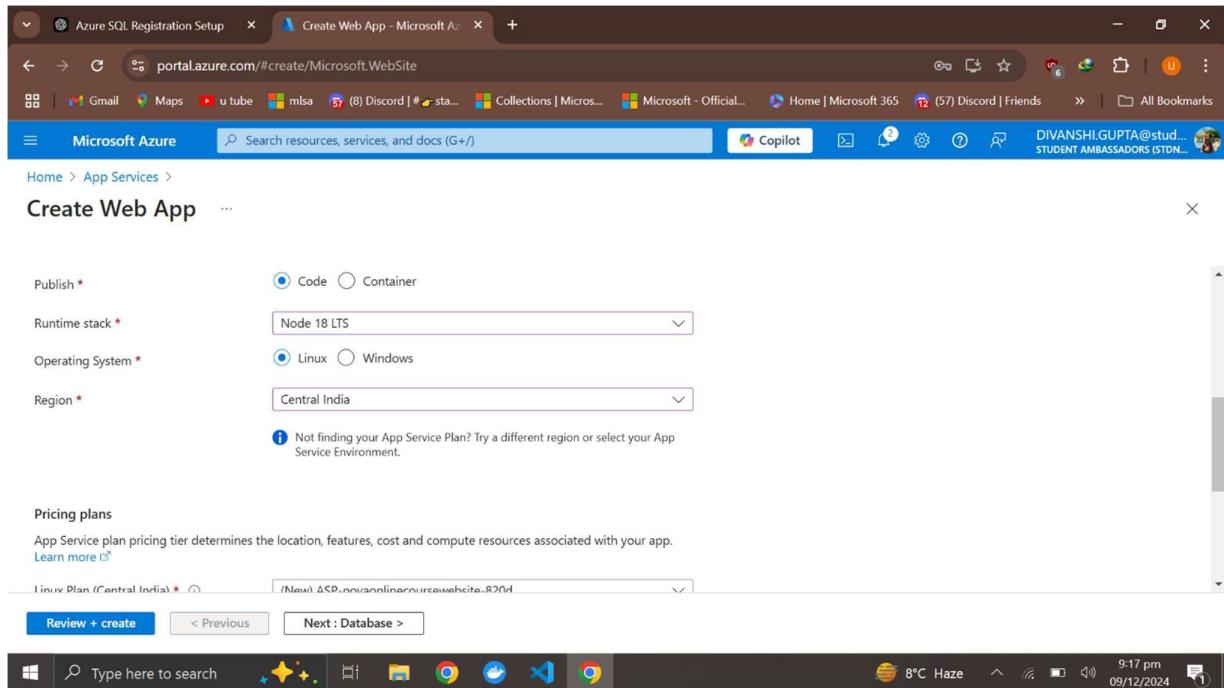
Pricing plans

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more](#)

Linux Plan (Central India) \* (New) ASP.NET Core Online Resource Website, R20h

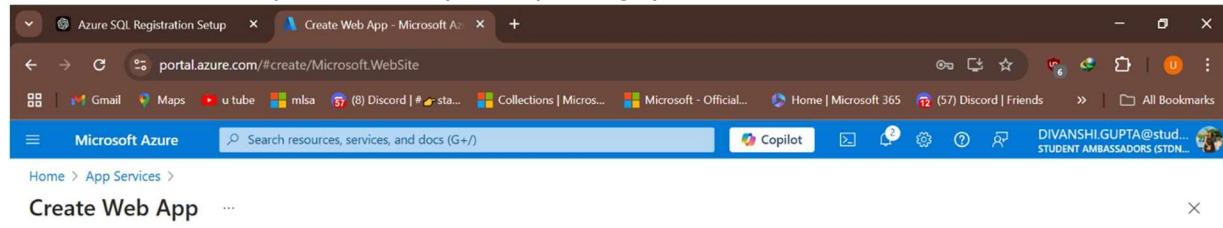
Review + create < Previous Next : Database >

Type here to search 8°C Haze 9:17 pm 09/12/2024

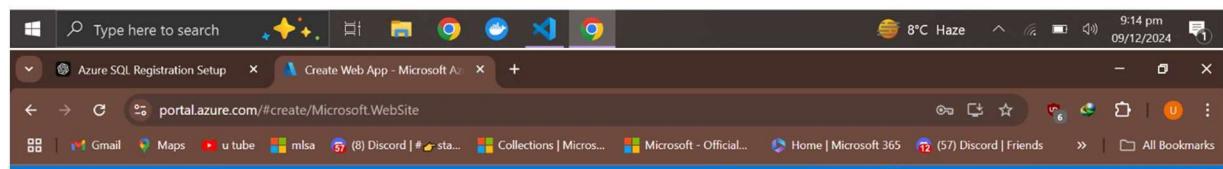


# LINUX IS BEST OPTION FOR DEPLOYMENT

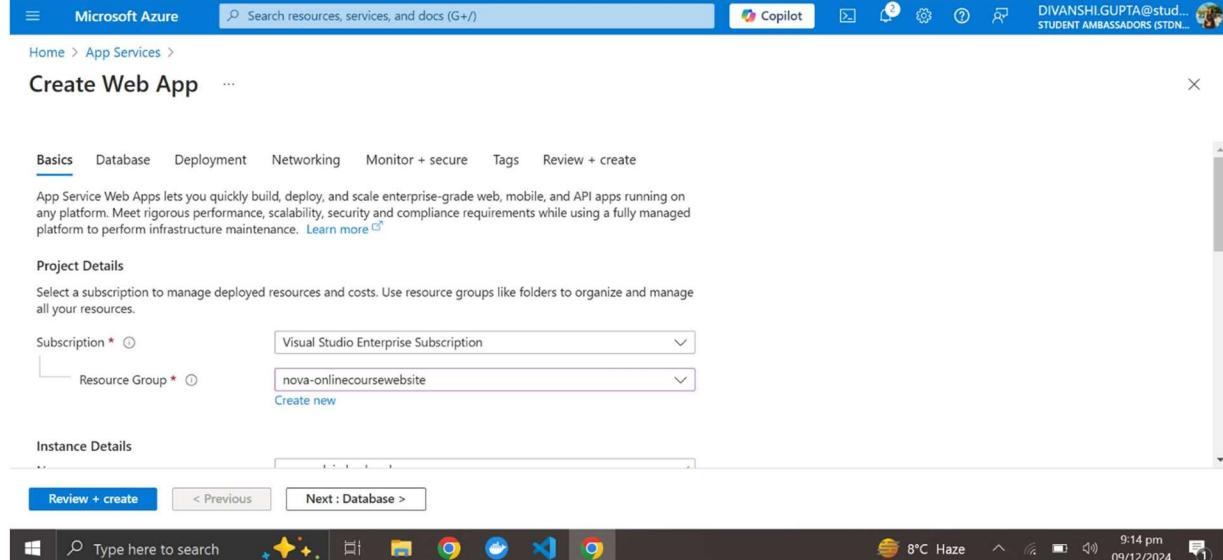
It does not affect or depends on our system operating system



The screenshot shows the Microsoft Azure portal interface. The user is in the 'Create Web App' wizard, Step 1: Basics. The 'Resource Group' dropdown is set to 'nova-onlinecoursewebsite'. The 'Name' field contains 'my-nodejs-backend' with a preview URL '-apdr7hzdzdtfufj.centralindia-01.azurewebsites.net'. The 'Secure unique default hostname' toggle is turned on. Under 'Publish', 'Code' is selected. The 'Runtime stack' is set to 'Node 18 LTS' and 'Operating System' is set to 'Linux'. The 'Region' is 'Central India'. At the bottom, there are 'Review + create', '< Previous', and 'Next : Database >' buttons.



This screenshot is identical to the one above, showing the 'Create Web App' wizard Step 1: Basics. The user is creating a web app named 'my-nodejs-backend' in the 'nova-onlinecoursewebsite' resource group. The runtime stack is set to 'Node 18 LTS' and the operating system is 'Linux'. The rest of the configuration and UI elements are the same.



This screenshot shows the 'Create Web App' wizard Step 1: Basics again. The user has selected the 'Database' tab instead of 'Deployment'. The 'Subscription' is 'Visual Studio Enterprise Subscription' and the 'Resource Group' is 'nova-onlinecoursewebsite'. The 'Instance Details' section is collapsed. At the bottom, there are 'Review + create', '< Previous', and 'Next : Database >' buttons.

**CLICK REVIEW AND CREATE**

**SKU** Premium V3  
**Size** Extra Small  
**ACU** 195 minimum ACU/vCPU  
**Memory** 4 GB memory

**Monitor + secure (New)**

|                      |                   |
|----------------------|-------------------|
| Application Insights | Enabled           |
| Name                 | my-nodejs-backend |
| Region               | Central India     |

**Deployment**

|                       |   |
|-----------------------|---|
| Basic authentication  | Disabled                                |
| Continuous deployment | Not enabled / Set up after app creation |

**Create** < Previous Next > Download a template for automation

**Runtime stack** Node 18 LTS

**App Service Plan (New)**

|                  |                                  |
|------------------|----------------------------------|
| Name             | ASP-novaonlinecoursewebsite-820d |
| Operating System | Linux                            |
| Region           | Central India                    |
| SKU              | Premium V3                       |
| Size             | Extra Small                      |
| ACU              | 195 minimum ACU/vCPU             |
| Memory           | 4 GB memory                      |

**Monitor + secure (New)**

|                      |         |
|----------------------|---------|
| Application Insights | Enabled |
|----------------------|---------|

**Create** < Previous Next > Download a template for automation

Azure SQL Registration Setup X Create Web App - Microsoft Azure X +

portal.azure.com/#create/Microsoft.WebSite

Microsoft Azure Search resources, services, and docs (G+)

Copilot

DIVANSHI.GUPTA@student... STUDENT AMBASSADORS ISTDN...

Home > App Services > Create Web App

**Details**

|                                |                                      |
|--------------------------------|--------------------------------------|
| Subscription                   | 8a80dfe9-0001-432f-a2fe-ba077735e80b |
| Resource Group                 | nova-onlinecoursewebsite             |
| Name                           | my-nodejs-backend                    |
| Secure unique default hostname | Enabled                              |
| Publish                        | Code                                 |
| Runtime stack                  | Node 18 LTS                          |

**App Service Plan (New)**

|                  |                                  |
|------------------|----------------------------------|
| Name             | ASP-novaonlinecoursewebsite-820d |
| Operating System | Linux                            |
| Region           | Central India                    |
| SKU              | Premium V3                       |

Create < Previous Next > Download a template for automation

Type here to search 8°C Haze 9:19 pm 09/12/2024

## INSTALLING AZURE CLI

Installing azure command line interface on windows to write commands for deployment of my backend app

Firstly, downloading from official Microsoft website.

Azure SQL Registration Setup X Install the Azure CLI for Windows X Microsoft.Web-WebApp-Portal X +

learn.microsoft.com/en-us/cli/azure/install-azure-cli-windows?tabs=azure-cli

Products Architecture Develop Learn Azure Troubleshooting Resources

Portal Free account

Filter by title

- Azure CLI
- > Overview
- > Install, update and run
  - Overview
  - Install - Windows
  - Install - macOS
  - Install - Linux
  - Run Azure CLI in a Docker container
  - Run Azure Cloud Shell
  - Update the Azure CLI
  - Azure CLI endpoints
- > Sign in
- Download PDF

## Install Azure CLI on Windows

Article • 08/19/2024 • 22 contributors

In this article

- Install or update
- Run the Azure CLI
- Troubleshooting installation
- Enable Tab Completion in PowerShell
- Show 5 more

The Azure Command-Line Interface (CLI) is a cross-platform command-line tool that can be installed locally on Windows computers. You can use the Azure CLI for Windows to connect to Azure and execute administrative commands on Azure resources. The Azure CLI for Windows can also be used from a browser through the Azure Cloud Shell or run from inside a Docker container.

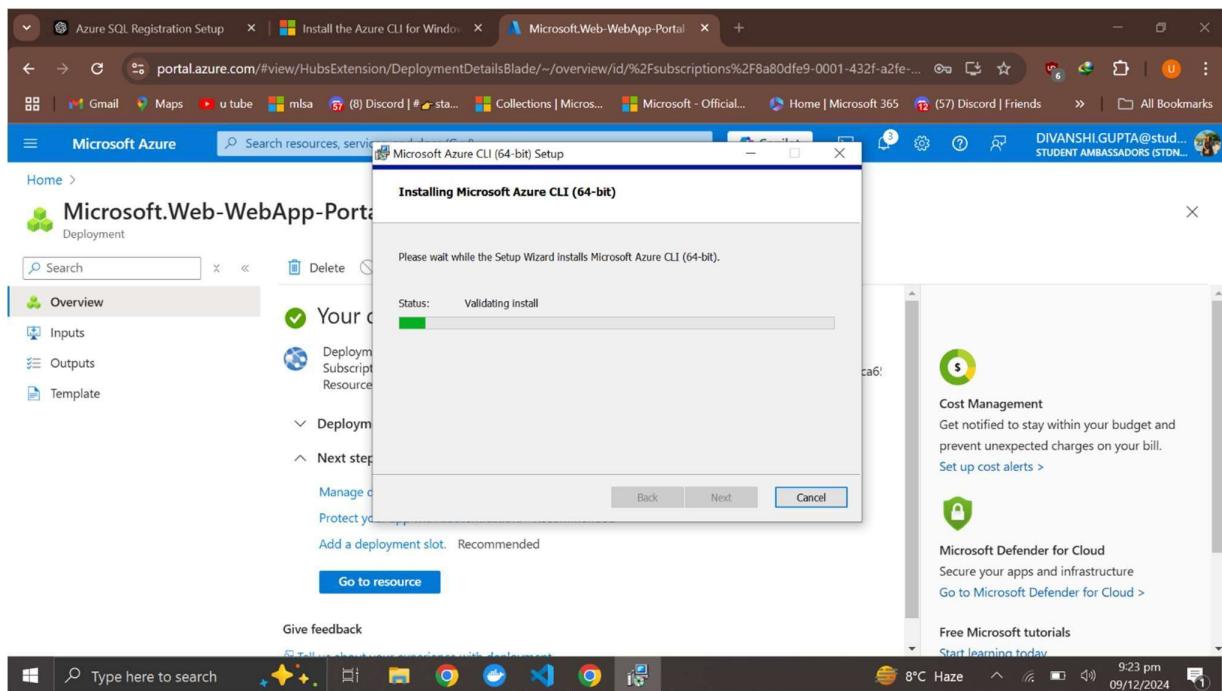
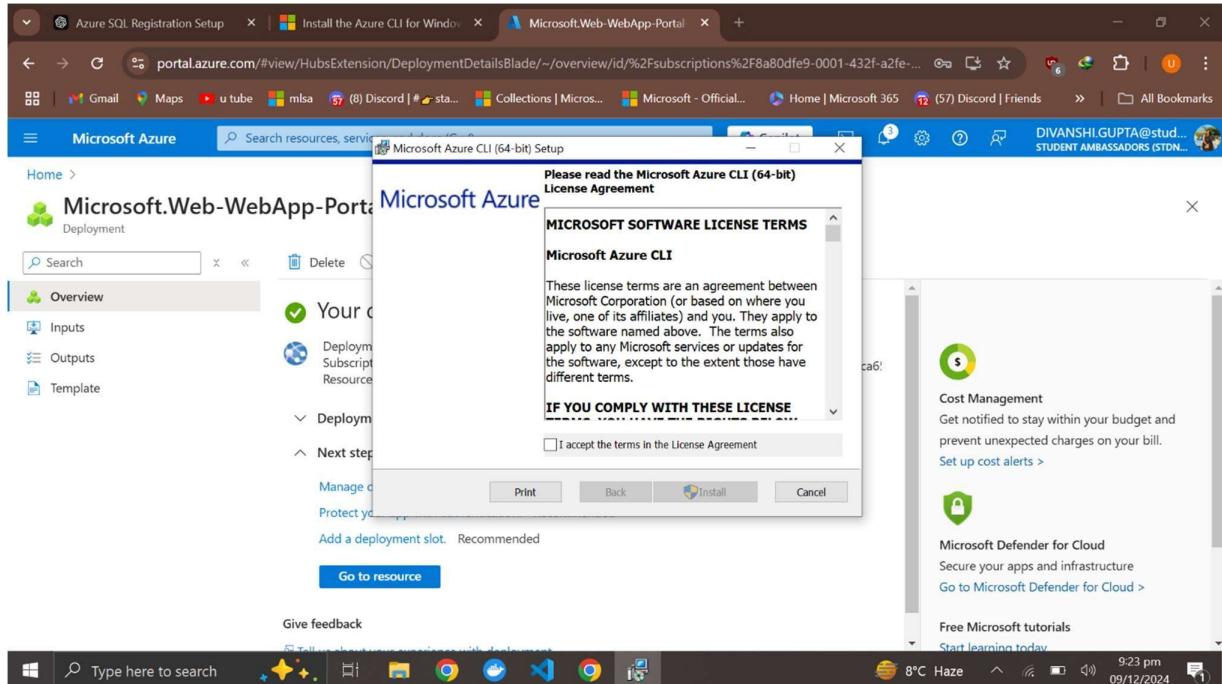
**Training**  
Module Control Azure services with the CLI - Training  
Learn the steps to install the Azure CLI locally, create a website, and manage Azure resources using the CLI.

**Certification**  
Microsoft Certified: Azure Administrator Associate - Certifications  
Demonstrate key skills to configure, manage, secure, and administer key professional functions in Microsoft Azure.

**Documentation**  
Get started with Azure Command-Line

Type here to search 8°C Haze 9:22 pm 09/12/2024

# INSTALLING IN MY SYSTEM



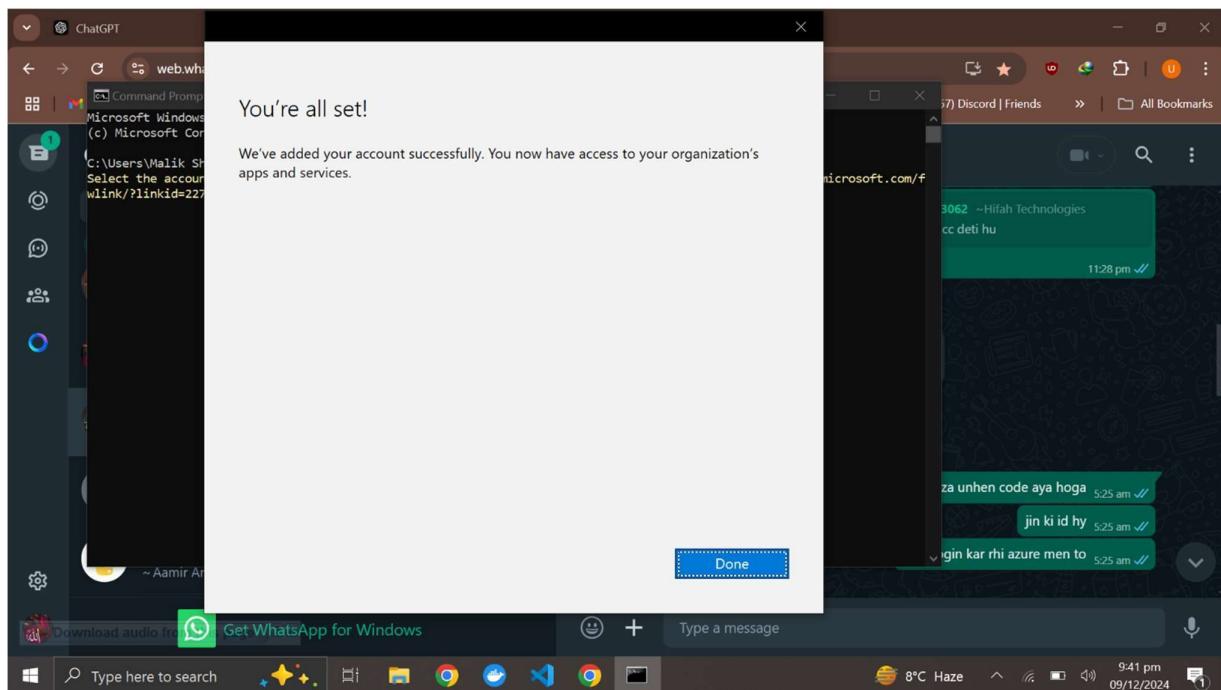
# CHECKING FOR SUCCESSFULL INSTALLATION

```
Command Prompt
Microsoft Windows [Version 10.0.19045.5198]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Malik Sheraz>az version
{
  "azure-cli": "2.67.0",
  "azure-cli-core": "2.67.0",
  "azure-cli-telemetry": "1.1.0",
  "extensions": []
}

C:\Users\Malik Sheraz>
C:\Users\Malik Sheraz>
```

## ACCOUNT LOGIN TO AZURE CLI



## ACCOUNT LIST

```
Command Prompt
[Announcements]
With the new Azure CLI login experience, you can select the subscription you want to use more easily. Learn more about it and its configuration at https://go.microsoft.com/fwlink/?linkid=2271236

If you encounter any problem, please open an issue at https://aka.ms/azclibug

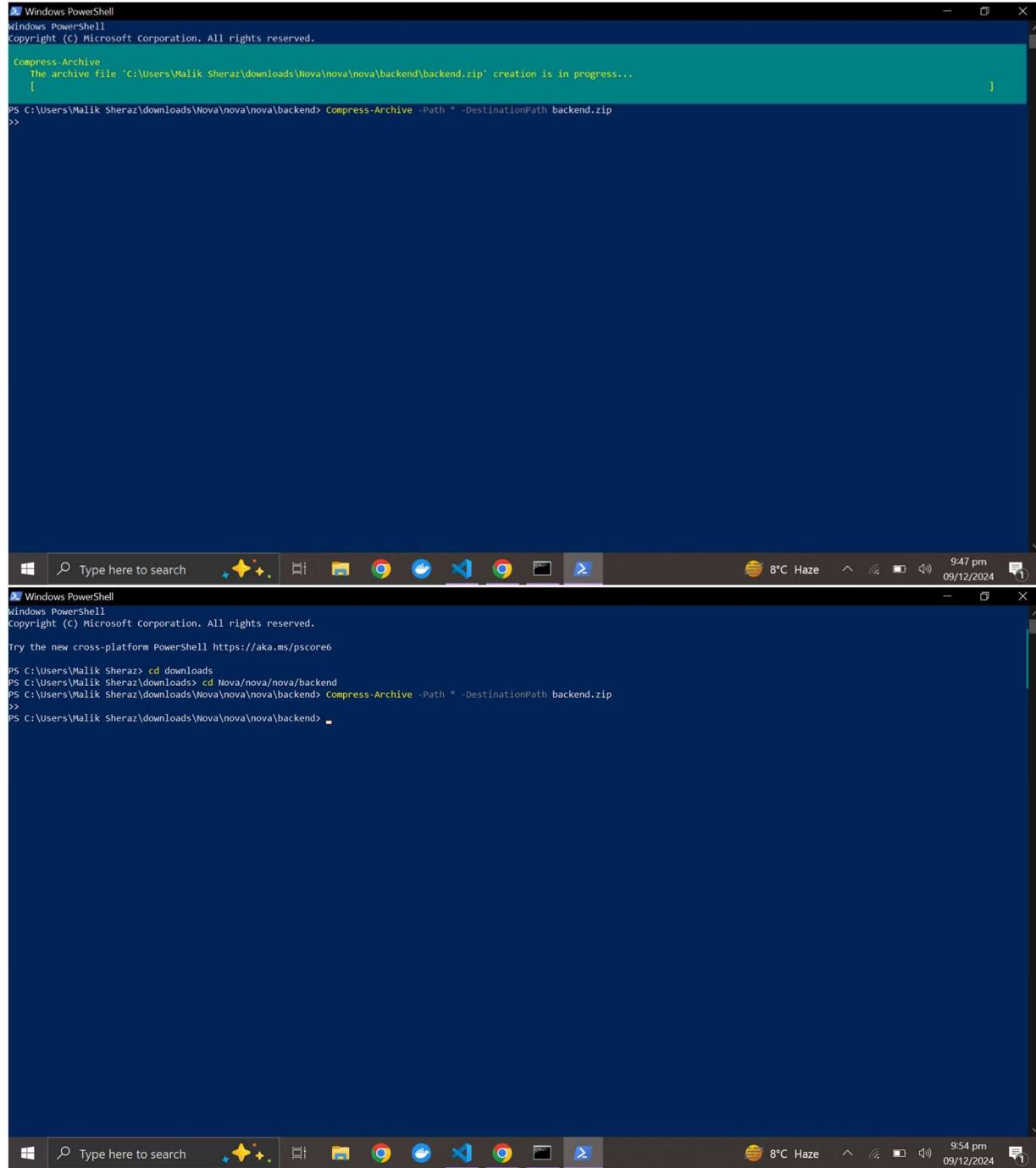
[Warning] The login output has been updated. Please be aware that it no longer displays the full list of available subscriptions by default.

C:\Users\Malik Sheraz>az account list
[
  {
    "cloudName": "AzureCloud",
    "homeTenantId": "84c31ca0-ac3b-4eae-ad11-519d80233e6f",
    "id": "8a80df09-0001-432f-a2fe-ba077735e80b",
    "isDefault": true,
    "managedByTenants": [],
    "name": "Visual Studio Enterprise Subscription",
    "state": "Enabled",
    "tenantDefaultDomain": "stdnpartners.onmicrosoft.com",
    "tenantDisplayName": "Student Ambassadors",
    "tenantId": "84c31ca0-ac3b-4eae-ad11-519d80233e6f",
    "user": {
      "name": "DIVANSHI.GUPTA@studentambassadors.com",
      "type": "user"
    }
  }
]
C:\Users\Malik Sheraz>
```



# CREATING THE ZIP FILE TO DEPLOY ON AZURE

Creating zip file on windows powershell



The image consists of three vertically stacked screenshots of a Windows PowerShell window. Each screenshot shows a dark blue PowerShell interface with white text. The top two screenshots show the command `Compress-Archive -Path * -DestinationPath backend.zip` being run, with the output "The archive file 'C:\Users\Malik Sheraz\downloads\Nova\nova\backend\backend.zip' creation is in progress..." displayed. The bottom screenshot shows the command being run again, with the output "Try the new cross-platform PowerShell https://aka.ms/pscore6" displayed.

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Compress-Archive
The archive file 'C:\Users\Malik Sheraz\downloads\Nova\nova\backend\backend.zip' creation is in progress...
[

PS C:\Users\Malik Sheraz\downloads\Nova\nova\backend> Compress-Archive -Path * -DestinationPath backend.zip
>>

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Malik Sheraz> cd downloads
PS C:\Users\Malik Sheraz\downloads> cd Nova\nova\nova\backend
PS C:\Users\Malik Sheraz\downloads\Nova\nova\nova\backend> Compress-Archive -Path * -DestinationPath backend.zip
>>
PS C:\Users\Malik Sheraz\downloads\Nova\nova\nova\backend>
```

## DEPLOYMENT FAILED DUE TO SOME ERRORS

**my-nodejs-backend** - Microsoft Azure

SKU and size: Premium0V3 (P0v3) [Scale up](#)

Deployment Center

- Deployment logs: Failed on Monday, December 9, 11:06:20 PM [Refresh](#)
- Last deployment: None
- Deployment provider: None

Application Insights

- Name: my-nodejs-backend
- Region: Central India

Networking

13°C Haze 11:12 pm 09/12/2024

: ( Application Error

If you are the application administrator, you can access the [diagnostic resources](#).

11:27 pm 09/12/2024



The screenshot shows the Microsoft Azure portal with the URL <https://portal.azure.com/#view/WebsitesExtension/SCIFrameBlade/id/%2Fsubscriptions%2Fa80dfe9-0001-432f-a2fe-ba077735e80b%2FresourceGroups%2Fmy-nodejs-backend%2Fresources>. The page title is "my-nodejs-backend | Availability and Performance". The left sidebar lists various monitoring metrics: Overview, Application Changes, Application Logs (selected), Container Issues, CPU Usage, Health Check feature, Linux - Host Disk Space Usage, Linux - Number of Running C..., Linux Load Average, Linux Swap Space Low, Memory Usage, and Process - Full List. The main content area is titled "Application Logs" and contains two sections: "Platform logs contain errors or warnings" and "Application logging is limited to startup failures". The "Platform logs contain errors or warnings" section lists three errors related to container exits and site start failures. The "Application logging is limited to startup failures" section provides an observation about HTTP Logging being set to false and a recommendation to turn it on.

## SHOWING THE LIVE LOGSTREAM OF MY AZURE WEB APP

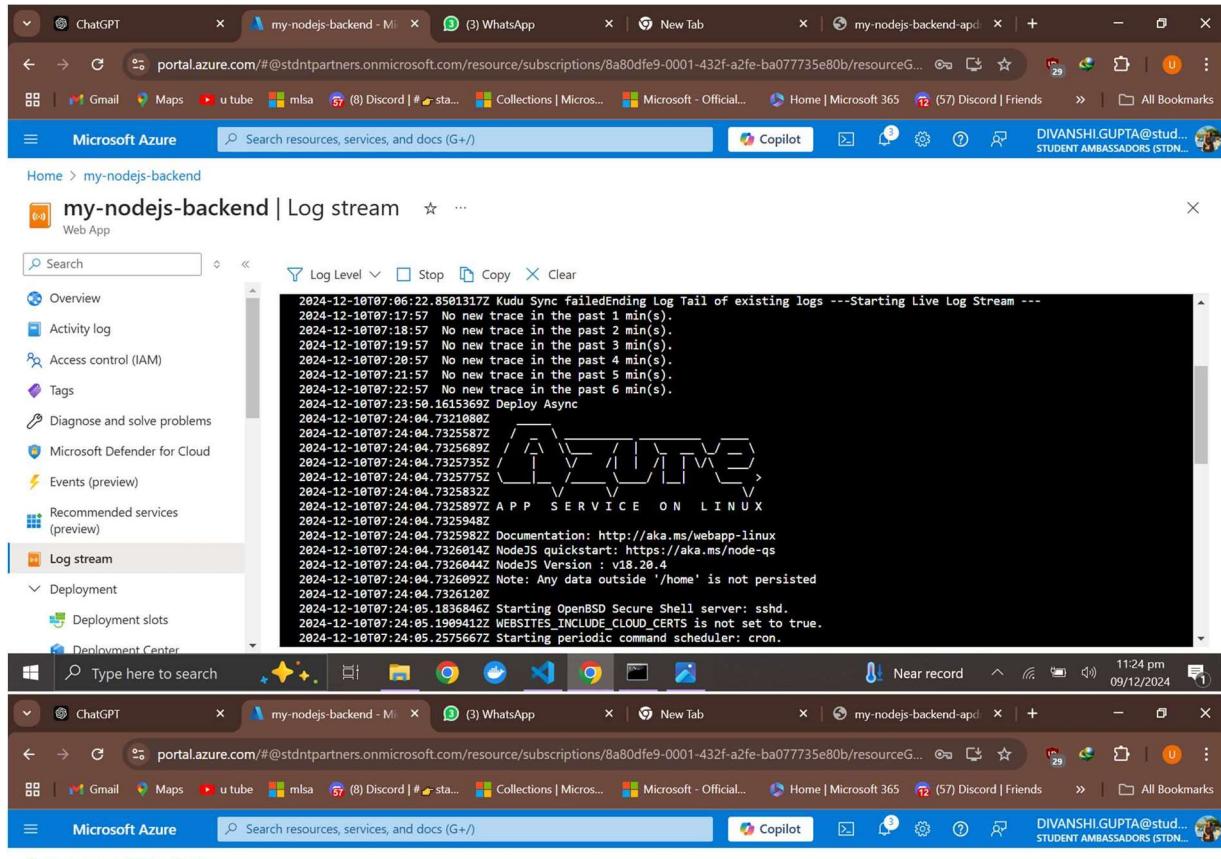
The screenshot shows the Microsoft Azure portal with the URL <https://portal.azure.com/#@stdnpartners.onmicrosoft.com/resource/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/resourceGroups/my-nodejs-backend%2Fresources>. The page title is "my-nodejs-backend | Log stream". The left sidebar lists various management options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Recommended services (preview), Log stream (selected), Deployment, Deployment slots, and Deployment Center. The main content area displays a live log stream window with a search bar, log level dropdown, and stop/copy/clear buttons. The log output shows several error messages related to module loading, such as "Error: Cannot find module 'dotenv'" and "Error: MODULE\_NOT\_FOUND". The log entries are timestamped from December 10, 2024, at 07:27:16 to 09:12:2024 at 11:27 pm. The system tray at the bottom indicates battery level at -0.07% and time at 11:27 pm on 09/12/2024.

# DEPLOYMENT COMPLETED SUCCESSFULLY

```
Command Prompt
Status: Starting the site... Time: 81(s)
Status: Starting the site... Time: 97(s)
Status: Starting the site... Time: 116(s)
Status: Starting the site... Time: 132(s)
Status: Starting the site... Time: 149(s)
Status: Starting the site... Time: 165(s)
Deployment status endpoint https://management.azure.com/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/resourceGroups/nova-onlinecoursewebsite/providers/Microsoft.Web/sites/my-nodejs-backend/deploymentStatus/1e87e174-f499-46e4-9cd3-f3814f586b0b?api-version=2023-01-01 returned error: ('Connection aborted.', ConnectionResetError(10054, 'An existing connection was forcibly closed by the remote host', None, 10854, None)).
Deployment has completed successfully
You can visit your app at: http://my-nodejs-backend.apdrex7hdzdtfufj.centralindia-01.azurewebsites.net
{
  "id": "/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/resourceGroups/nova-onlinecoursewebsite/providers/Microsoft.Web/sites/my-nodejs-backend/deploymentStatus/1e87e174-f499-46e4-9cd3-f3814f586b0b",
  "location": "Central India",
  "name": "1e87e174-f499-46e4-9cd3-f3814f586b0b",
  "properties": {
    "deploymentId": "1e87e174-f499-46e4-9cd3-f3814f586b0b",
    "errors": null,
    "failedInstancesLogs": null,
    "numberOfInstancesFailed": 0,
    "numberOfInstancesInProgress": 1,
    "numberOfInstancesSuccessful": 0,
    "status": "RuntimeStarting"
  },
  "resourceGroup": "nova-onlinecoursewebsite",
  "tags": {
    "hidden-link": "/app-insights-conn-string": "InstrumentationKey=ea749066-db51-4528-bedf-75432747d8b7;IngestionEndpoint=https://centralindia-0.in.applicationinsights.azure.com/liveEndpoint=https://centralindia.livediagnostics.monitor.azure.com;ApplicationId=77b44957-851a-4927-b29d-9900345c91b7",
    "hidden-link": "/app-insights-instrumentation-key": "ea749066-db51-4528-bedf-75432747d8b7",
    "hidden-link": "/app-insights-resource-id": "/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/resourceGroups/nova-onlinecoursewebsite/providers/microsoft.insights/components/my-nodejs-backend"
  },
  "type": "Microsoft.Web/sites/deploymentStatus"
}
C:\Users\Malik Sheraz\Downloads\Nova\nova\backend>
```

```
Windows Type here to search 11:26 pm 09/12/2024
Command Prompt
C:\Users\Malik Sheraz\Downloads\Nova\nova\backend>az webapp deploy --resource-group nova-onlinecoursewebsite --name my-nodejs-backend --src-path backend.zip
Deployment type: zip. To override deployment type, please specify the --type parameter. Possible values: war, jar, ear, zip, startup, script, static
Initiating deployment
Deploying from local path: backend.zip
Polling the status of sync deployment. Start Time: 2024-12-10 07:23:29.436908+00:00 UTC
Status: Build successful. Time: 1(s)
Status: Starting the site... Time: 17(s)
Status: Starting the site... Time: 33(s)
Status: Starting the site... Time: 49(s)
Status: Starting the site... Time: 66(s)
Status: Starting the site... Time: 81(s)
Status: Starting the site... Time: 97(s)
Status: Starting the site... Time: 116(s)
Status: Starting the site... Time: 132(s)
Status: Starting the site... Time: 149(s)
Status: Starting the site... Time: 165(s)
Deployment status endpoint https://management.azure.com/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/resourceGroups/nova-onlinecoursewebsite/providers/Microsoft.Web/sites/my-nodejs-backend/deploymentStatus/1e87e174-f499-46e4-9cd3-f3814f586b0b?api-version=2023-01-01 returned error: ('Connection aborted.', ConnectionResetError(10054, 'An existing connection was forcibly closed by the remote host', None, 10854, None)).
Deployment has completed successfully
You can visit your app at: http://my-nodejs-backend.apdrex7hdzdtfufj.centralindia-01.azurewebsites.net
{
  "id": "/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/resourceGroups/nova-onlinecoursewebsite/providers/Microsoft.Web/sites/my-nodejs-backend/deploymentStatus/1e87e174-f499-46e4-9cd3-f3814f586b0b",
  "location": "Central India",
  "name": "1e87e174-f499-46e4-9cd3-f3814f586b0b",
  "properties": {
    "deploymentId": "1e87e174-f499-46e4-9cd3-f3814f586b0b",
    "errors": null,
    "failedInstancesLogs": null,
    "numberOfInstancesFailed": 0,
    "numberOfInstancesInProgress": 1,
    "numberOfInstancesSuccessful": 0,
    "status": "RuntimeStarting"
  },
  "resourceGroup": "nova-onlinecoursewebsite",
  "tags": {
    "hidden-link": "/app-insights-conn-string": "InstrumentationKey=ea749066-db51-4528-bedf-75432747d8b7;IngestionEndpoint=https://centralindia-0.in.applicationinsights.azure.com/liveEndpoint=https://centralindia.livediagnostics.monitor.azure.com;ApplicationId=77b44957-851a-4927-b29d-9900345c91b7",
    "hidden-link": "/app-insights-instrumentation-key": "ea749066-db51-4528-bedf-75432747d8b7",
    "hidden-link": "/app-insights-resource-id": "/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/resourceGroups/nova-onlinecoursewebsite/providers/microsoft.insights/components/my-nodejs-backend"
  }
}
Windows Type here to search 11:26 pm 09/12/2024
```

SHOWING APP SERVICE ON LINUX ON LIVE LOGSTREAM



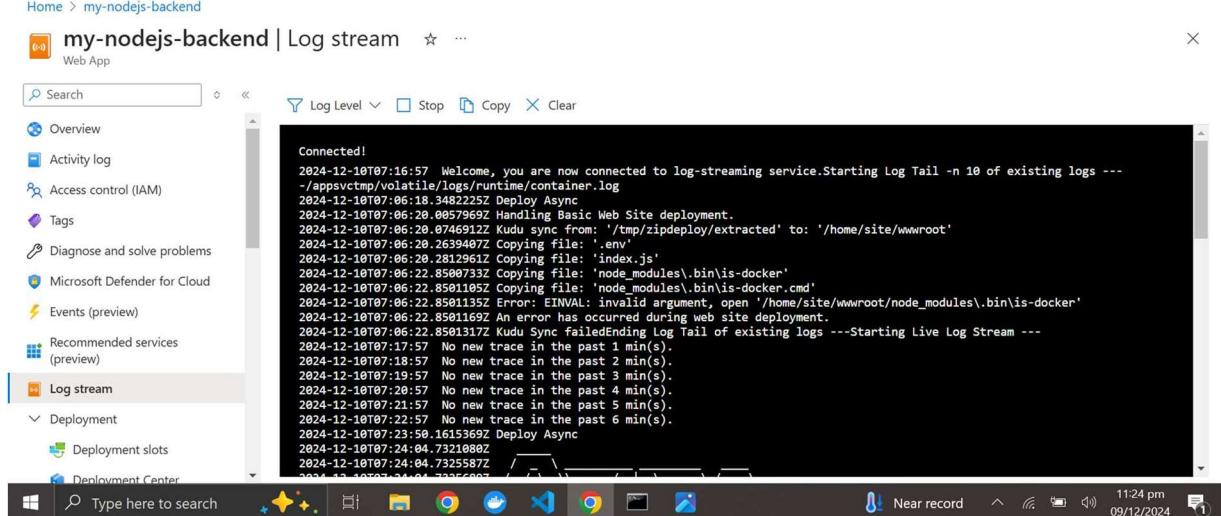
The screenshot shows the Microsoft Azure portal with the URL <https://portal.azure.com/#@stdnpartners.onmicrosoft.com/resource/subscriptions/8a80dfe9-0001-432f-a2fe-ba077735e80b/resourceGroups/stdnpartners/resourceGroups/stdnpartners-rg/providers/Microsoft.Web/sites/my-nodejs-backend>. The page title is "my-nodejs-backend | Log stream". The left sidebar shows the "Log stream" option under "Web App". The main content area displays log entries from December 12, 2024:

```

2024-12-12T07:06:22.850317Z Kudu Sync failedEnding Log Tail of existing logs ---Starting Live Log Stream ---
2024-12-12T07:17:57 No new trace in the past 1 min(s).
2024-12-12T07:18:57 No new trace in the past 2 min(s).
2024-12-12T07:19:57 No new trace in the past 3 min(s).
2024-12-12T07:20:57 No new trace in the past 4 min(s).
2024-12-12T07:21:57 No new trace in the past 5 min(s).
2024-12-12T07:22:57 No new trace in the past 6 min(s).
2024-12-12T07:23:50.1615369Z Deploy Async
2024-12-12T07:24:04.7321086Z
2024-12-12T07:24:04.7325587Z
2024-12-12T07:24:04.7325689Z
2024-12-12T07:24:04.7325735Z
2024-12-12T07:24:04.7325775Z
2024-12-12T07:24:04.7325832Z
2024-12-12T07:24:04.7325897Z Documentation: http://aka.ms/webapp-linux
2024-12-12T07:24:04.7326014Z NodeJS quickstart: https://aka.ms/node-qs
2024-12-12T07:24:04.7326044Z NodeJS Version : v18.20.4
2024-12-12T07:24:04.7326099Z Note: Any data outside '/home' is not persisted
2024-12-12T07:24:04.7326128Z
2024-12-12T07:24:05.1836846Z Starting OpenBSD Secure Shell server: sshd.
2024-12-12T07:24:05.1909412Z WEBSITES_INCLUDE_CLOUD_CERTS is not set to true.
2024-12-12T07:24:05.2575667Z Starting periodic command scheduler: cron.

```

The screenshot also shows the Windows taskbar at the bottom with various pinned icons.

This second screenshot of the Azure Log Stream shows the same deployment logs as the first one, indicating a successful deployment of the Node.js application. The logs include messages about Kudu sync, deployment asynchronous, and the start of the sshd service.

## ITS JUST BACKEND AND BACKEND CAN'T BE SEEN S FRONTEND

- BACKEND ONLY HAS SOME LOGIC



The screenshot shows the Microsoft Azure portal interface with the following details:

- Top navigation bar: ChatGPT, my-nodejs-backend | Availability, (3) WhatsApp, New Tab
- Address bar: `portal.azure.com/#view/WebsitesExtension/SCIFrameBlade/id/%2Fsubscriptions%2F8a80dfe9-0001-432f-a2fe-ba077735e80b%2Fresou...`
- User info: DIVANSHI.GUPTA@student. .... STUDENT AMBASSADORS (STDN...)

The main content area is titled "my-nodejs-backend | Availability and Performance". On the left, there is a sidebar with the following menu items:

- Overview (selected)
- Application Changes
- Application Logs (highlighted)
- Container Issues
- CPU Usage
- Health Check feature
- Linux - Host Disk Space Usage
- Linux - Number of Running C...
- Linux Load Average
- Linux Swap Space Low
- Memory Usage
- Process Full List

The main panel shows "Application logs" with a search bar and filters for "Instance: In1xsdlwk00005N" and "Status: all". It lists recent log entries:

| Time                        | Status | Message   |
|-----------------------------|--------|---|
| 2024-12-10T07:41:47.9625168 | Ok     | requireStack: [ '/home/site/wwwroot/index.js' ] |
| 2024-12-10T07:41:47.9625211 | Ok     | }   |
| 2024-12-10T07:41:47.9625252 | Ok     |   |
| 2024-12-10T07:41:47.9625295 | Ok     | Node.js v18.20.4                                |
| 2024-12-10T07:41:47.9625295 | Ok     |   |

## ERRORS I HAVE FACED DURING THIS DOPLYMENT BUT FIXED SUCCESSFULLY

The screenshot displays three windows on a Windows desktop:

- Command Prompt:** Shows deployment logs for a zip file. It starts with "Starting zip deployment. This operation can take a while to complete ...". It then shows a series of "Status: Building the app..." messages with increasing times (0s, 16s, 33s, 49s, 65s). Finally, it says "Status: Build failed. Time: 65(s)" and "Deployment failed because the build process failed". A link to check logs is provided: <https://my-nodejs-backend-apdrexhdzdtfufj.scm.centralindia-01.azurewebsites.net/api/deployments/76686ef3-493f-4126-8592-fb49d9ac941c/log>.
- Browser Window:** Shows the Azure App Service dashboard for the application "my-nodejs-backend". The URL is <https://my-nodejs-backend-apdrexhdzdtfufj.scm.centralindia-01.azurewebsites.net/DebugConsole>. The page includes a navigation bar with "Azure App Service", "Environment", "SSH", "Bash", "Log stream", and "Process explorer". The user is logged in as DIVANSHI.GUPTA@studentambassadors.com.
- Terminal Window:** An SSH connection established to the Kudu service at `ssh://kudu_ssh_user@127.0.0.6.22`. The session shows a command being run: `rm -rf /home/site/wwwroot/*`.

The screenshot displays two Microsoft Azure browser tabs side-by-side.

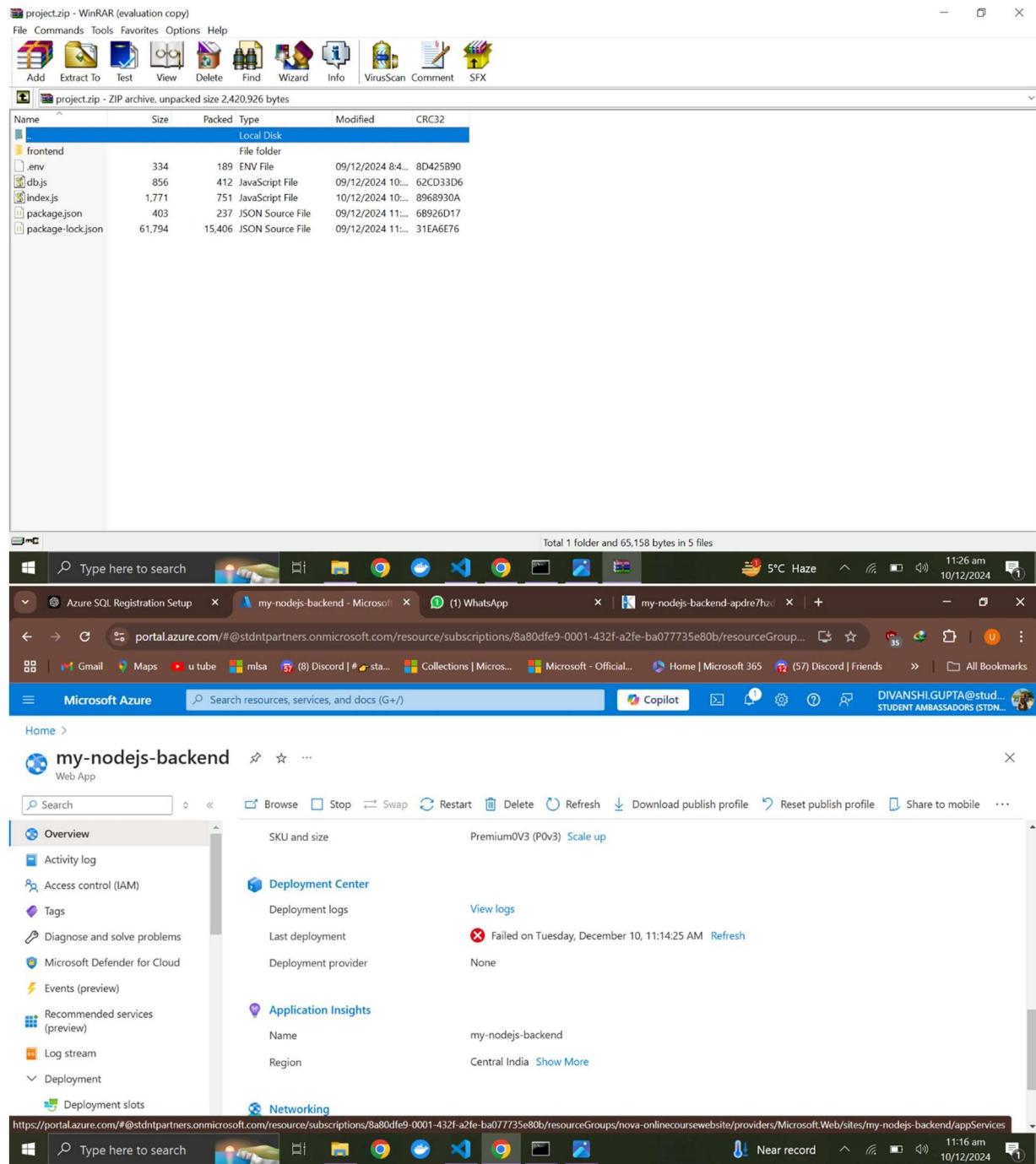
**Top Tab: my-nodejs-backend | Access control**

This tab shows the Azure portal interface for managing access control (IAM) for a web application named "my-nodejs-backend". The sidebar on the left lists various management options like Overview, Activity log, and Deployment slots. The main content area is titled "DIVANSHI GUPTA assignments - my-nodejs-backend" and displays "Current role assignments" and "Eligible assignments". It shows one assignment under "Classic administrators": "Service Administrator" with the description "Has full access to all resources in the subscription".

**Bottom Tab: my-nodejs-backend | Availability and Performance**

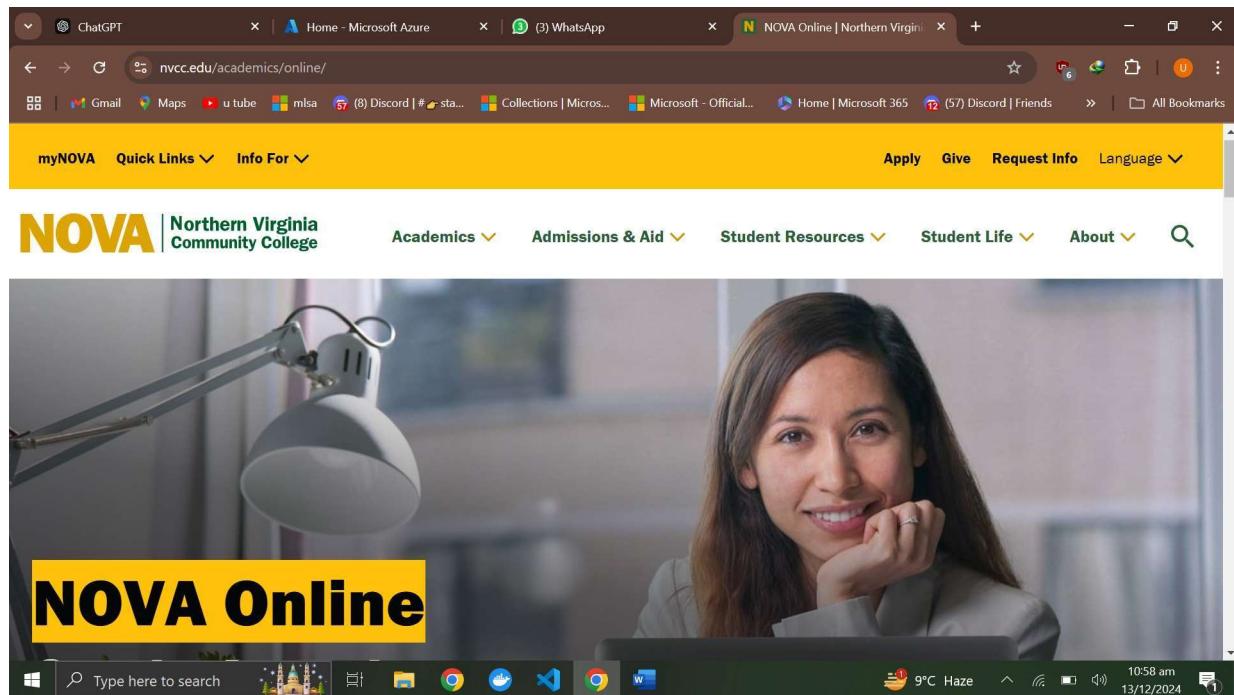
This tab shows the Azure portal interface for monitoring the availability and performance of the "my-nodejs-backend" application. The sidebar on the left lists monitoring metrics such as Application Logs, Container Issues, CPU Usage, and Memory Usage. The main content area is titled "my-nodejs-backend | Availability and Performance" and displays "Application logs". It shows a list of recent log entries:

| Time                        | Message  |
|-----------------------------|--|
| 2024-12-10T07:45:36.9873987 | at Module.load (node:internal/modules/cjs/loader:1203:32)    |
| 2024-12-10T07:45:36.9874033 | at Module._load (node:internal/modules/cjs/loader:1019:12) { |
| 2024-12-10T07:45:36.9874077 | code: 'MODULE_NOT_FOUND',                                    |
| 2024-12-10T07:45:36.987412  | requireStack: [ '/home/site/wwwroot/index.js' ]              |
| 2024-12-10T07:45:36.9874163 | }  |

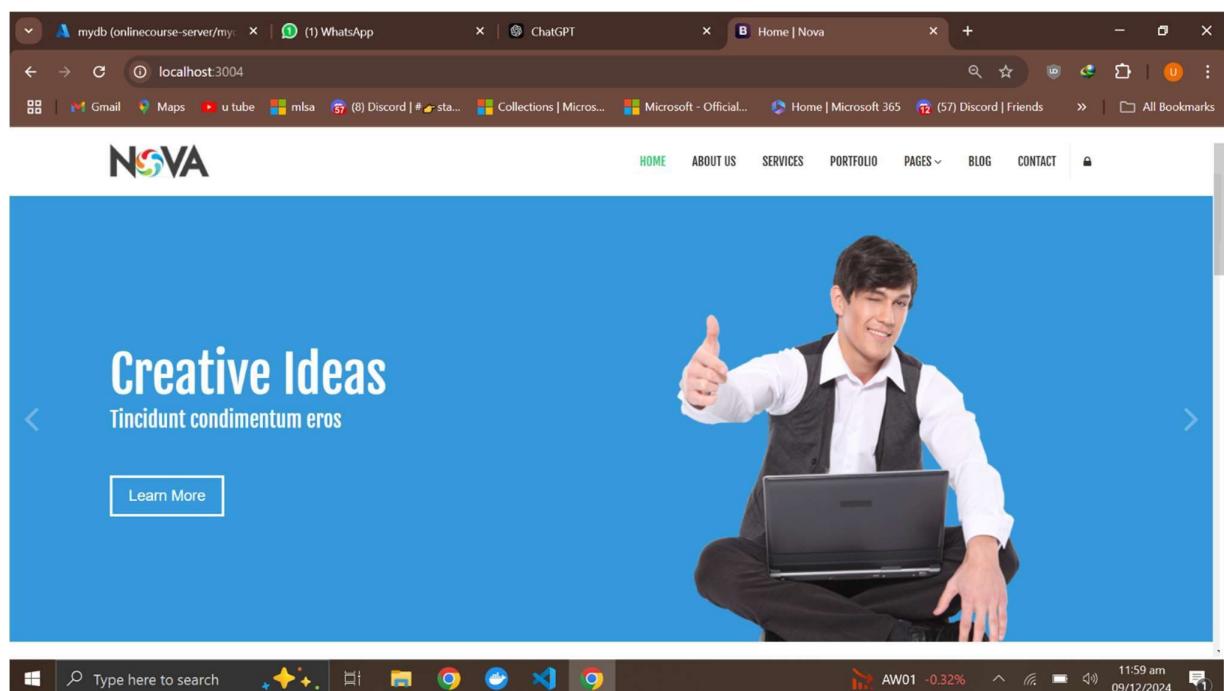


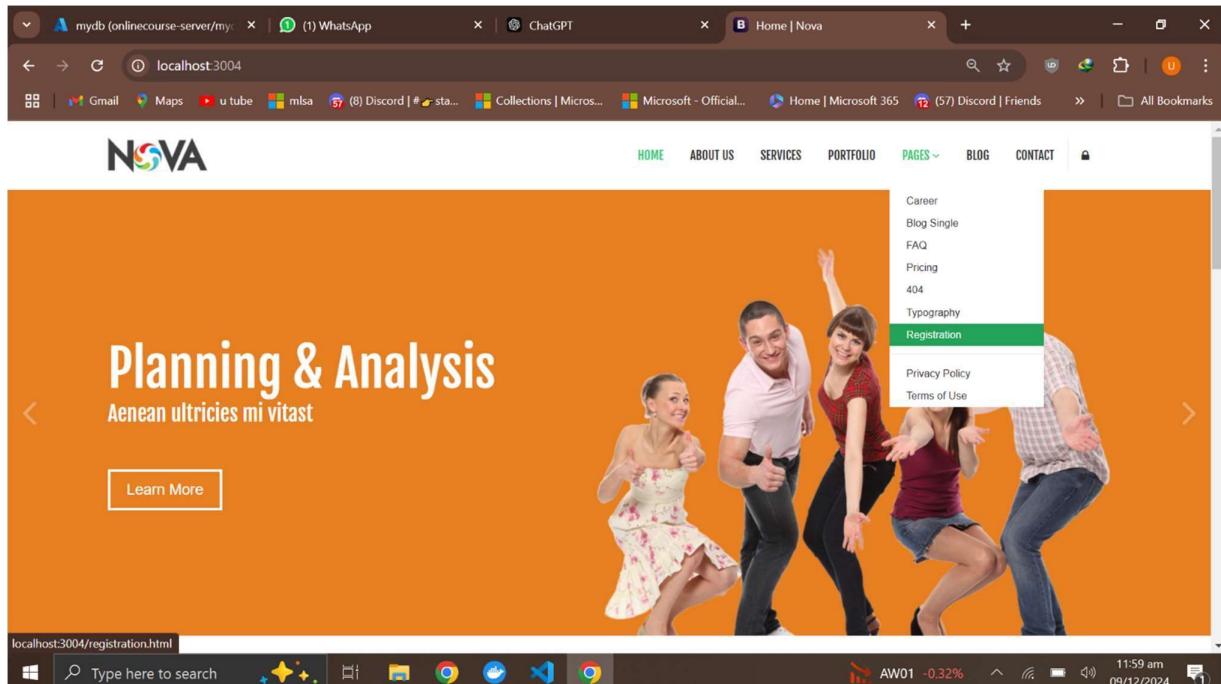
## Difference btw Real Nova And Our Nova Website

- REAL NOVA ONLINE COURSES WEBSITE



- OUR CREATED WEBSITE





## MY WEBSITE CODES

- Codes are too large of my website so I just going to paste important files code like database connection with azure and my index and registration page codes

### REGISTRATION.HTML

```
<!DOCTYPE html>
<!--[if lt IE 7]>    <html class="no-js lt-ie9 lt-ie8 lt-ie7"> <![endif]-->
<!--[if IE 7]>    <html class="no-js lt-ie9 lt-ie8"> <![endif]-->
<!--[if IE 8]>    <html class="no-js lt-ie9"> <![endif]-->
<!--[if gt IE 8]><!--> <html class="no-js"> <!--<![endif]-->
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
    <title>Registration | Nova</title>
    <meta name="description" content="">
    <meta name="viewport" content="width=device-width">

    <link rel="stylesheet" href="css/bootstrap.min.css">
    <link rel="stylesheet" href="css/bootstrap-responsive.min.css">
    <link rel="stylesheet" href="css/font-awesome.min.css">
    <link rel="stylesheet" href="css/main.css">
    <link rel="stylesheet" href="css/sl-slide.css">

    <script src="js/vendor/modernizr-2.6.2-respond-1.1.0.min.js"></script>
```

```
<!-- Le fav and touch icons -->
<link rel="shortcut icon" href="images/ico/favicon.ico">
<link rel="apple-touch-icon-precomposed" sizes="144x144" href="images/ico/apple-touch-icon-144-precomposed.png">
<link rel="apple-touch-icon-precomposed" sizes="114x114" href="images/ico/apple-touch-icon-114-precomposed.png">
<link rel="apple-touch-icon-precomposed" sizes="72x72" href="images/ico/apple-touch-icon-72-precomposed.png">
<link rel="apple-touch-icon-precomposed" href="images/ico/apple-touch-icon-57-precomposed.png">
</head>

<body>

<!--Header-->
<header class="navbar navbar-fixed-top">
<div class="navbar-inner">
<div class="container">
<a class="btn btn-navbar" data-toggle="collapse" data-target=".nav-collapse">
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</a>
<a id="logo" class="pull-left" href="index.html"></a>
<div class="nav-collapse collapse pull-right">
<ul class="nav">
<li><a href="index.html">Home</a></li>
<li><a href="about-us.html">About Us</a></li>
<li><a href="services.html">Services</a></li>
<li><a href="portfolio.html">Portfolio</a></li>
<li class="dropdown active">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">Pages <i class="icon-angle-down"></i></a>
<ul class="dropdown-menu">
<li><a href="career.html">Career</a></li>
<li><a href="blog-item.html">Blog Single</a></li>
<li><a href="faq.html">FAQ</a></li>
<li><a href="pricing.html">Pricing</a></li>
<li><a href="404.html">404</a></li>
<li><a href="typography.html">Typography</a></li>
<li class="active"><a href="registration.html">Registration</a></li>
<li class="divider"></li>
<li><a href="privacy.html">Privacy Policy</a></li>
<li><a href="terms.html">Terms of Use</a></li>
</ul>
</li>
<li><a href="blog.html">Blog</a></li>
<li><a href="contact-us.html">Contact</a></li>
```

```
<li class="login">
    <a data-toggle="modal" href="#loginForm"><i class="icon-lock"></i></a>
</li>
</ul>
</div><!--/.nav-collapse -->
</div>
</div>
</header>
<!-- /header -->

<section class="title">
<div class="container">
<div class="row-fluid">
<div class="span6">
<h1>Registration</h1>
</div>
<div class="span6">
<ul class="breadcrumb pull-right">
<li><a href="index.html">Home</a> <span class="divider">/</span></li>
<li><a href="#">Pages</a> <span class="divider">/</span></li>
<li class="active">Registration</li>
</ul>
</div>
</div>
</div>
</div>
</section>
<!-- / .title -->

<section id="registration-page" class="container">
<form class="center" action="/register" method="POST">
<fieldset class="registration-form">
<div class="control-group">
<!-- Username -->
<div class="controls">
<input type="text" id="username" name="username" placeholder="Username" class="input-xlarge" required>
</div>
</div>

<div class="control-group">
<!-- E-mail -->
<div class="controls">
<input type="email" id="email" name="email" placeholder="E-mail" class="input-xlarge" required>
</div>
</div>

<div class="control-group">
```

```
<!-- Password-->
<div class="controls">
    <input type="password" id="password" name="password" placeholder="Password" class="input-xlarge" required>
</div>
</div>

<div class="control-group">
    <!-- Password -->
    <div class="controls">
        <input type="password" id="password_confirm" name="confirmPassword" placeholder="Password (Confirm)" class="input-xlarge" required>
    </div>
</div>

<div class="control-group">
    <!-- Button -->
    <div class="controls">
        <button class="btn btn-success btn-large btn-block" type="submit">Register</button>
    </div>
</div>
</fieldset>
</form>
</section>
<!-- /#registration-page -->

<!--Bottom-->
<section id="bottom" class="main">
    <!--Container-->
    <div class="container">

        <!--row-fluids-->
        <div class="row-fluid">

            <!--Contact Form-->
            <div class="span3">
                <h4>ADDRESS</h4>
                <ul class="unstyled address">
                    <li>
                        <i class="icon-home"></i><strong>Address:</strong> 1032 Wayback Lane, Wantagh<br>NY
11793
                    </li>
                    <li>
                        <i class="icon-envelope"></i>
                        <strong>Email:</strong> support@email.com
                    </li>
                    <li>
                        <i class="icon-globe"></i>
                    </li>
                </ul>
            </div>
        </div>
    </div>
</section>
```

```
<strong>Website:</strong> www.domain.com
</li>
<li>
    <i class="icon-phone"></i>
    <strong>Toll Free:</strong> 631-409-3105
</li>
</ul>
</div>
<!--End Contact Form-->

<!--Important Links-->
<div id="tweets" class="span3">
    <h4>OUR COMPANY</h4>
    <div>
        <ul class="arrow">
            <li><a href="#">About Us</a></li>
            <li><a href="#">Support</a></li>
            <li><a href="#">Terms of Use</a></li>
            <li><a href="#">Privacy Policy</a></li>
            <li><a href="#">Copyright</a></li>
            <li><a href="#">We are hiring</a></li>
            <li><a href="#">Clients</a></li>
            <li><a href="#">Blog</a></li>
        </ul>
    </div>
</div>
<!--Important Links-->

<!--Archives-->
<div id="archives" class="span3">
    <h4>ARCHIVES</h4>
    <div>
        <ul class="arrow">
            <li><a href="#">December 2012 (1)</a></li>
            <li><a href="#">November 2012 (5)</a></li>
            <li><a href="#">October 2012 (8)</a></li>
            <li><a href="#">September 2012 (10)</a></li>
            <li><a href="#">August 2012 (29)</a></li>
            <li><a href="#">July 2012 (1)</a></li>
            <li><a href="#">June 2012 (31)</a></li>
        </ul>
    </div>
</div>
<!--End Archives-->

<div class="span3">
    <h4>FLICKR GALLERY</h4>
    <div class="row-fluid first">
```

```
<ul class="thumbnails">
    <li class="span3">
        <a href="http://www.flickr.com/photos/76029035@N02/6829540293/" title="01 (254) by
Victor1558, on Flickr"></a>
    </li>
    <li class="span3">
        <a href="http://www.flickr.com/photos/76029035@N02/6829537417/" title="01 (196) by
Victor1558, on Flickr"></a>
    </li>
    <li class="span3">
        <a href="http://www.flickr.com/photos/76029035@N02/6829527437/" title="01 (65) by
Victor1558, on Flickr"></a>
    </li>
    <li class="span3">
        <a href="http://www.flickr.com/photos/76029035@N02/6829524451/" title="01 (6) by
Victor1558, on Flickr"></a>
    </li>
</ul>
</div>
<div class="row-fluid">
    <ul class="thumbnails">
        <li class="span3">
            <a href="http://www.flickr.com/photos/76029035@N02/6829524451/" title="01 (6) by
Victor1558, on Flickr"></a>
        </li>
        <li class="span3">
            <a href="http://www.flickr.com/photos/76029035@N02/6829540293/" title="01 (254) by
Victor1558, on Flickr"></a>
        </li>
        <li class="span3">
            <a href="http://www.flickr.com/photos/76029035@N02/6829537417/" title="01 (196) by
Victor1558, on Flickr"></a>
        </li>
        <li class="span3">
            <a href="http://www.flickr.com/photos/76029035@N02/6829527437/" title="01 (65) by
Victor1558, on Flickr"></a>
        </li>
    </ul>
</div>
```

```
</div>

</div>
<!--/row-fluid-->
</div>
<!--/container-->

</section>
<!--/bottom-->

<!--Footer-->
<footer id="footer">
    <div class="container">
        <div class="row-fluid">
            <div class="span5 cp">
                Ccopy; 2013 <a target="_blank" href="http://shapebootstrap.net/" title="Free Twitter Bootstrap  
WordPress Themes and HTML templates">ShapeBootstrap</a>. All Rights Reserved.
            </div>
            <!--Copyright-->

            <div class="span6">
                <ul class="social pull-right">
                    <li><a href="#"><i class="icon-facebook"></i></a></li>
                    <li><a href="#"><i class="icon-twitter"></i></a></li>
                    <li><a href="#"><i class="icon-pinterest"></i></a></li>
                    <li><a href="#"><i class="icon-linkedin"></i></a></li>
                    <li><a href="#"><i class="icon-google-plus"></i></a></li>
                    <li><a href="#"><i class="icon-youtube"></i></a></li>
                    <li><a href="#"><i class="icon-tumblr"></i></a></li>
                    <li><a href="#"><i class="icon-dribbble"></i></a></li>
                    <li><a href="#"><i class="icon-rss"></i></a></li>
                    <li><a href="#"><i class="icon-github-alt"></i></a></li>
                    <li><a href="#"><i class="icon-instagram"></i></a></li>
                </ul>
            </div>

            <div class="span1">
                <a id="gototop" class="gototop pull-right" href="#"><i class="icon-angle-up"></i></a>
            </div>
            <!--Goto Top-->
        </div>
    </div>
</footer>
<!--Footer-->

<!-- Login form -->
<div class="modal hide fade in" id="loginForm" aria-hidden="false">
    <div class="modal-header">
```

```

<i class="icon-remove" data-dismiss="modal" aria-hidden="true"></i>
<h4>Login Form</h4>
</div>
<!--Modal Body-->
<div class="modal-body">
<form class="form-inline" action="index.html" method="post" id="form-login">
<input type="text" class="input-small" placeholder="Email">
<input type="password" class="input-small" placeholder="Password">
<label class="checkbox">
<input type="checkbox"> Remember me
</label>
<button type="submit" class="btn btn-primary">Sign in</button>
</form>
<a href="#">Forgot your password?</a>
</div>
<!--/Modal Body-->
</div>
<!-- /Login form -->

<script src="js/vendor/jquery-1.9.1.min.js"></script>
<script src="js/vendor/bootstrap.min.js"></script>
<script src="js/main.js"></script>

</body>
</html>

```

## .ENV FILE FOR DATABASE IMPORTANT INFO

- THIS FILE KEEPS MY DATABASE INFORMATION SECURE

```

DB_USER=Uroojuser                                # Your admin username
DB_PASSWORD=uropj@1234                            # Your admin password
DB_SERVER=onlinecourse-server.database.windows.net   # Your server name, followed by
.database.windows.net
DB_DATABASE=mydb                                    # Your database name
PORT=3007                                         # Port number for your app

```

## db.js FILE

```

const sql = require("mssql");

// Load environment variables
require("dotenv").config();

const config = {
  user: process.env.DB_USER,          // Admin username

```

```

password: process.env.DB_PASSWORD, //Admin password
server: process.env.DB_SERVER, // Server address
database: process.env.DB_DATABASE, // Database name
options: {
  encrypt: true, // Required for Azure SQL
  enableArithAbort: true,
},
};

// Create and export a connection pool
const poolPromise = new sql.ConnectionPool(config)
  .connect()
  .then((pool) => {
    console.log("Connected to SQL Server!");
    return pool;
})
  .catch((err) => {
    console.error("Database Connection Failed! Error:", err);
    throw err;
});
module.exports = poolPromise;

```

## Index.js file

```

require('dotenv').config(); // Load environment variables from .env
const express = require("express");
const path = require("path");
const sql = require("mssql");
const poolPromise = require("./db"); // Database connection
//require("dotenv").config();

const app = express();

// Middleware to parse incoming requests
app.use(express.json());
app.use(express.urlencoded({ extended: true }));

// Serve static frontend files
app.use(express.static(path.join(__dirname, "frontend")));

// Registration API
app.post("/register", async (req, res) => {
  const { username, email, password, confirmPassword } = req.body;
  if (!username || !email || !password || !confirmPassword) {
    return res.status(400).json({ error: "All fields are required!" });
  }
}

```

```
if(password !== confirmPassword) {
    return res.status(400).json({ error: "Passwords do not match!" });
}
try {
    const pool = await poolPromise;
    const result = await pool.request()
        .input("username", sql.NVarChar, username)
        .input("email", sql.NVarChar, email)
        .input("password", sql.NVarChar, password)
        .query("INSERT INTO users (username, email, password) VALUES (@username, @email,
@password)");

    res.status(200).json({ message: "User registered successfully!" });
} catch (err) {
    console.error(err);
    res.status(500).json({ error: "Failed to register user" });
}
});

// Catch-all route to serve frontend
app.get("*", (req, res) => {
    res.sendFile(path.join(__dirname, "frontend", "index.html"));
});

// Start server
const PORT = process.env.PORT || 3007;
app.listen(PORT, () => {
    console.log(`Server running on port ${PORT}`);
});
```