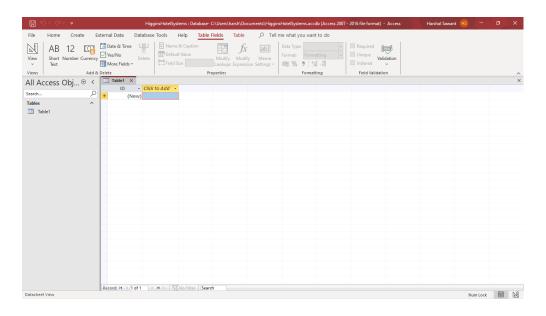
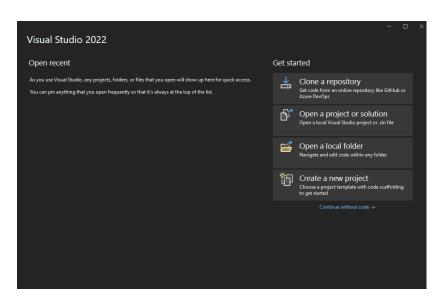
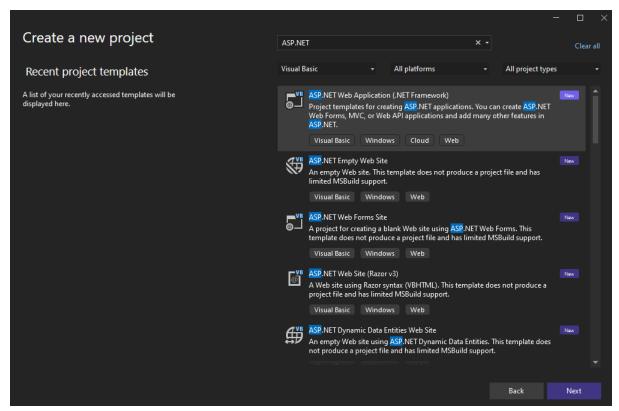
### Lab 6 Submittal

**Step 1: Create a Database File** 

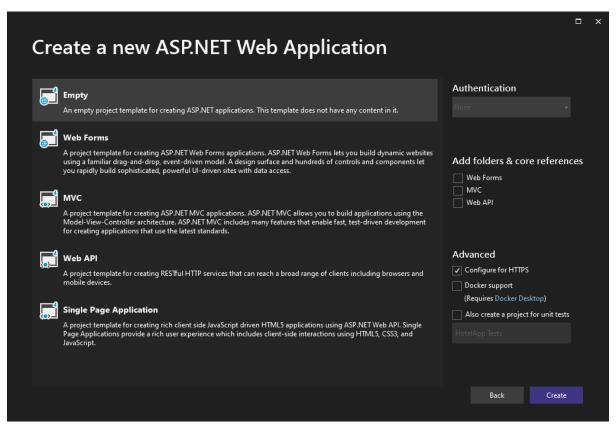


Step 2: Open a new MS Visual Studio Empty Web Project



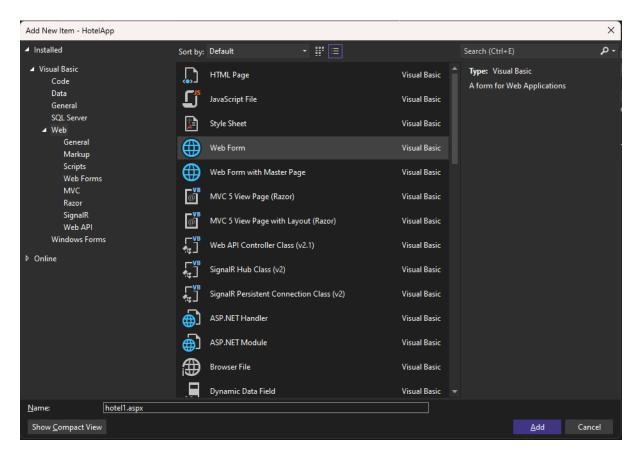


Selecting ASP.NET WEB Application



Selecting an empty project

Step 3: Add a New Web Form



**Step 4: Add Code to the Web Form File** 

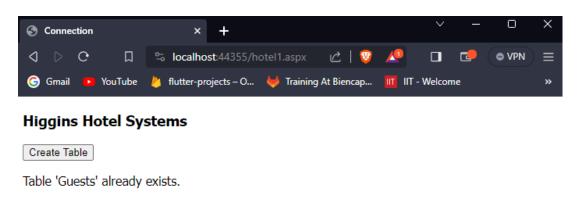
**Step 5: Test the Server – Side Application** 

## **Higgins Hotel Systems**

Create Table

Insert Records

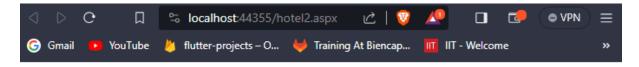
After running the application



After creating a table named Guests

Insert Records

Step 6: Create a New Web Form

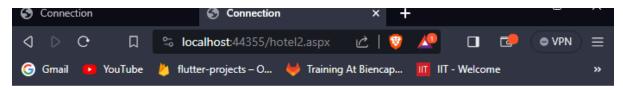


### **Enter Guest Details**

ID	]	
Last Name:	]	
First Name:	]	
ZipCode:	]	
StateID:		
Insert		
Retrieve Reco		

After running the given code block

**Step 7: Populate the Guests Table** 



Data Recorded!

#### **Enter Guest Details**

ID	19			
Last Name:	Jadhav			
First Name:	Avadhoot			
ZipCode:	60616			
StateID:	4586			
Insert				
Retrieve Records				

As we can see the above dialog which says "Data Recorded" after clicking on Insert indicates that the data has been stored.

Similarly, I inserted 5 records.

**Step 8: Create a New Web Form** 

```
    C%@ Page Language = "VB"

    C%@ Import Namespace = "System.Data.OleDb"

    <!DOCTYPE html>

              =<html xmlns = "http://www.w3.org/1999/xhtml">
              <title>Connection</title>
G<script runat = "server">
                      Sub Search_Click(Src As Object, E As EventArgs)
                            Try
: 'Connect to the Database
: As New OleD
      10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
                                  Dim cnAccess As New OleDbConnection( _
"Provider = Microsoft.ACE.OLEDB.12.0;" & _
"Data Source = C:\Users\harsh\Documents\HigginsHotelSystems.accdb")
                                  cnAccess.Open()
                                  Dim sLName As String
sLName = LName.Text.Trim
                                   'Construct the SELECT statement
                                  Dim sSelectSQL As String
'Create the SQL Select Statement
                                  sSelectSQL = "SELECT * FROM Guests WHERE ([LName] LIKE '" & sLName & "')"
                                  Dim cmdSelect As New OleDbCommand(sSelectSQL, cnAccess)
Dim drFmn As OlaDhDataDaadar shDasults As New StringRuit
              No issues found
                                                                                                                                                                Ln: 1 Ch: 1 SPC CRLF
```

### **Enter Guest Name**

Last Name:	
Search	

Step 9: Test the Search Web Form

Data Found!

### **Enter Guest Name**

Last Name:	Darade
Search	

26 Darade Pratik 60616

Step 10: Add a New Web Form to your Hotel Application.

### **Higgins Hotel Systems**

Create Table

Table Created!

Insert Records

**Step 11: Open MS Access and Populate the Staff Table** 

	Staff X								
	StaffID	¥	FName	¥	LName	¥	Location -	HireDate →	StaffPic -
		10	Atharv		Khandke		60616	01-11-2023	mypic1.jpeg
		20	Prathmesh		Utture		60616	03-11-2023	mypic2.jpeg
		30	Aniket		Singh		60616	05-11-2023	mypic3.jpeg
		40	Prasad		Pawar		60616	07-11-2023	mypic4.jpeg
		50	Pranav		Barne		60616	09-11-2023	mypic5.jpeg
*									

Step 12: Add a New Web Form to your Application.

## **Enter Staff Last Name**

Last Name:	
Search	

Data Found for Staff!

# **Enter Staff Last Name**

Last Name: Barne

Search

Staff ID	First Name	Last Name	Location	Hire Date	Staff Pic
50	Pranav	Barne	60616	2023-11-09	

**Step 13: Test your Application.** 

# Welcome to the Hotel Reservation System

- Guest
- Guest Details
- Search Guest
- Staff
- Search Staff

### Step 14: Questions and Reflections concerning this Database project.

(1)

There are differences between AWS and Microsoft Azure's cloud service architectures. AWS:

AWS is distinguished by its modular architecture, which offers consumers broad flexibility and scalability over an international infrastructure. It provides a wide range of customized services that let users choose and pay for particular features.

#### Azure:

Microsoft Azure, on the other hand, places a strong emphasis on integration and serves companies who are heavily dependent on Microsoft products. Its architecture places an emphasis on a single platform that unifies several services and encourages seamless interoperability with Windows-based applications. When it comes to hybrid cloud solutions, Azure shines, making the integration of cloud and on-premises systems easier. A company's current infrastructure, preferred technologies, and the degree of customisation or integration needed for their apps all play a role in the choice between the two.

(2)

```
□<html xmlns="http://www.w3.org/1999/xhtml">
           delid="Head1" runat="server
                <title>Connection</title>
                <script runat="server"</pre>
                    Sub Search_Click(Src As Object, E As EventArgs)
                             'Connect to the Database
    10
11
12
13
14
15
16
17
18
20
21
22
23
24
25
26
                             Dim cnAccess As New OleDbConnection(
                                  "Data Source= C:\Users\harsh\Documents\HigginsHotelSystems.accdb")
                             Dim sLName As String
sLName = LName.Text.Trim
                             Dim sSelectSQL As String
'Create the SQL Select Statement
                             sSelectSQL = "SELECT * FROM Guests WHERE ([LName] LIKE '" & sLName & "')"
                             'Create the OleDbCommand object
Dim cmdSelect As New OleDbCommand(sSelectSQL, cnAccess)
                             Dim drEmp As OleDbDataReader, sbResults As New StringBuilder()
                             drEmp = cmdSelect.ExecuteReader()
          No issues found
                                                                                                                   Ln: 13 Ch: 49 SPC MIXED
```

```
| State | Sub CancelReservation_Click(Src As Object, E As EventArgs) | State | Sub CancelReservation_Click(Src As Object, E As EventArgs) | State | Sub CancelReservation_Click(Src As Object, E As EventArgs) | State | Sub CancelReservation_Click(Src As Object, E As EventArgs) | State | Sub CancelReservation_Click(Src As Object, E As EventArgs) | State | Sub CancelReservation_State | Sub CancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_TancelReservation_Click_T
```

#### **Enter Guest Name**

Last Name:						
Search	Cancel Reservation					

I will add a cancellation button for the reservation to be cancelled. We can search the reservation made based on the last name and according to that we can cancel the reservation.

(3)

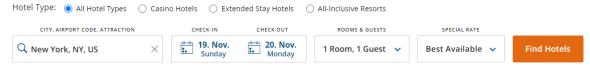
(A) Inputs required to do the reservation is:

Firstly, we need to give Location.

Then Check-in and Check-out date.

Then room and guest count.

Then select best available rate if special rate is available.



(B) After the inputs are provided:

We get hotels in that location.

Then we can filter according to our exact location preferences.

Then we can filter according to our needs such as swimming pool, free Wi-Fi, smoking free, parking, distance from the airport, etc.



(4)

In both hotel reservation and educational registration systems, similarities exist in various components. Personal information, reservation/course details, payment data, and confirmation receipts are typical input elements in both hotel reservation and educational registration systems. Databases including consumer and student data, registration and reservation records, and financial transaction logs are examples of comparable files. Database and file servers are needed for storage, and local and wide area networks are part of the network architecture, which guarantees safe connections for data transmission. These systems share the core components—data storage, network connectivity, and input requirements—necessary for managing reservations and enrollments and enabling seamless operations in both hospitality and educational environments, despite variations in scale and particular specifics.

(5)

Generally speaking, organized data is advised for a reservation system. Structured data fits nicely into tables or databases, is arranged, and adheres to a specified structure. This is why it is better to have structured data:

- **1. Query Efficiency**: Quicker and simpler querying is made possible by structured data. Rapid access to data, such as available rooms or courses, client information, and booking history, is essential in a reservation system. The systematic nature of structured data makes these searches easier to use.
- **2.** Consistency and Reliability: Data in a predetermined format is more reliable and consistent, and error-prone data is less likely. Accuracy in a reservation system is essential. Financial records, reservation details, and client information are all uniformly stored thanks to structured data.
- **3. Integration and Analysis**: Analytical tools and system integration are made easier with structured data. It makes it simple to integrate with analytics platforms, CRM systems, and payment gateways, promoting a deeper comprehension of consumer behavior and preferences.
- **4. Scalability and Maintenance:** Structured data is more scalable since reservation systems frequently handle enormous amounts of data. Databases and systems scale more easily when

the data is organized in a systematic manner. Additionally, upgrades and maintenance are simpler.

While handling a variety of data types, such as emails, images, and social media content, is one advantage of unstructured data, for a reservation system that focuses on customer information, bookings, and financial transactions, the structured format offers the efficiency and organization required for efficient system operation.