

# **Industry Project Report**

## **On**

# **Industrial Training**

**Developed By: -**

Shah\_Jinay\_Pratikkumar (20162121025)

**Guided By: -**

Prof. Neha Sisodia (Internal)

Mr. Keyur Nakum (External)

**Submitted to**  
**Faculty of Engineering and Technology**  
**Institute of Computer Technology**  
**Ganpat University**



**Ganpat  
University**

॥ विद्यया समाजोत्कर्षः ॥

**Institute of  
Computer  
Technology**



**Year - 2024**



Appraisal # 62443 | Exp. Date 07, 2025



Silver Touch  
TECHNOLOGIES

Date: 30<sup>th</sup> April 2024

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **Mr. Jinay Shah** has successfully completed four months of internship program from 01<sup>st</sup> January 2024 to 30<sup>th</sup> April 2024 in "Dot Net, RPA, Odoo and Android" as software developer with our organization.

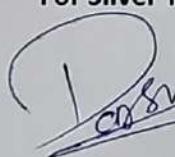
He was highly motivated and hardworking. He worked sincerely at his tasks and did a very good job.

Throughout his internship, he proved to be a highly professional, adaptable, and diligent individual. He consistently displayed strong work ethic and an unwavering commitment to his tasks. His ability to grasp complex technical concepts and his enthusiasm for problem-solving were commendable, making it a valuable asset to our organization.

We are confident in his potential in the field of software engineering and wholeheartedly recommend him for future endeavors.

Sincerely,

For Silver Touch Technologies Ltd.

  
  
HR Department

Silver Touch Technologies Limited

2nd Floor, Saffron Tower, Opp. Central Mall, Panchavati Cross Road, Ahmedabad 380006 Gujarat, India.

Phone: +91 79 4002 2770 - 4, Email: info@silvertouch.com, Website: www.silvertouch.com

CIN: L72200GJ1995PLC024465

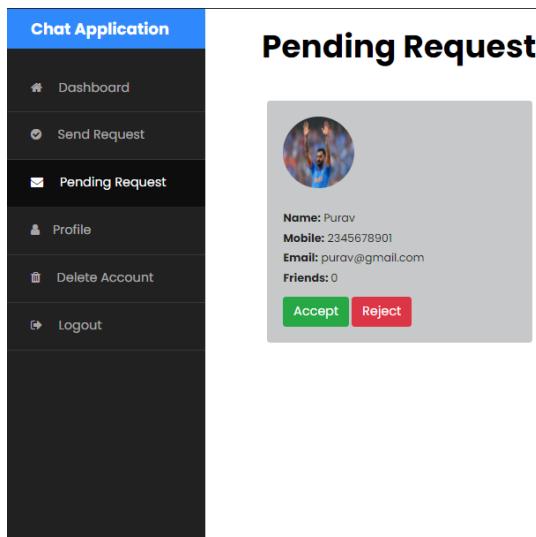
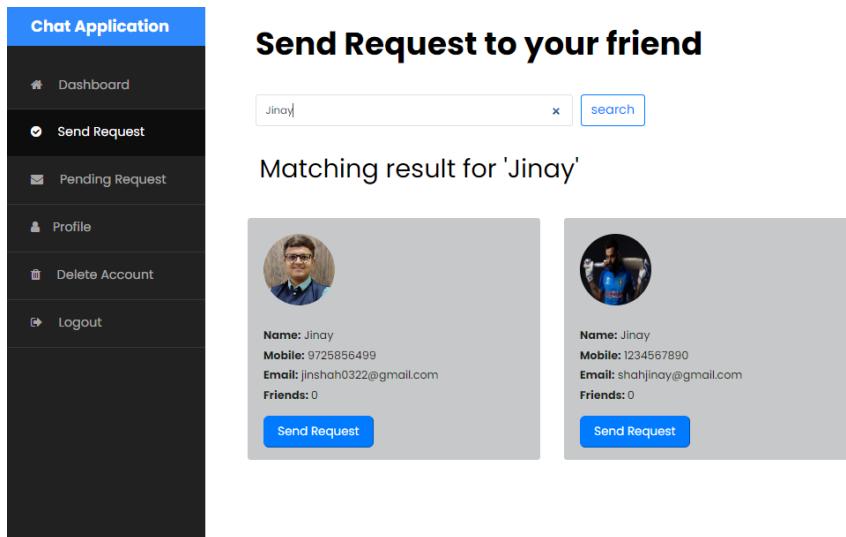
## **ACKNOWLEDGEMENT**

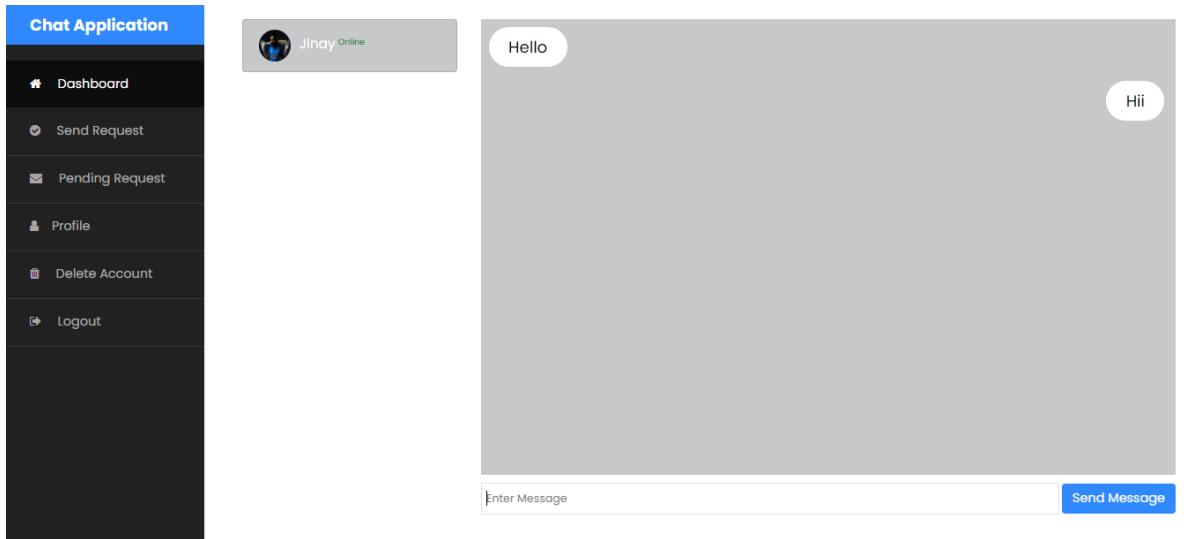
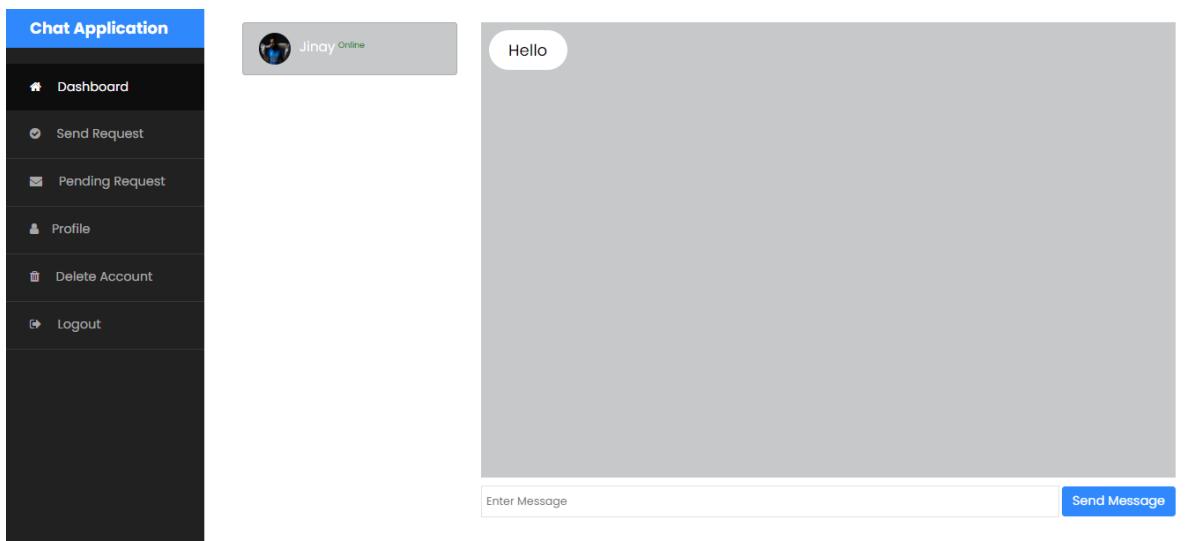
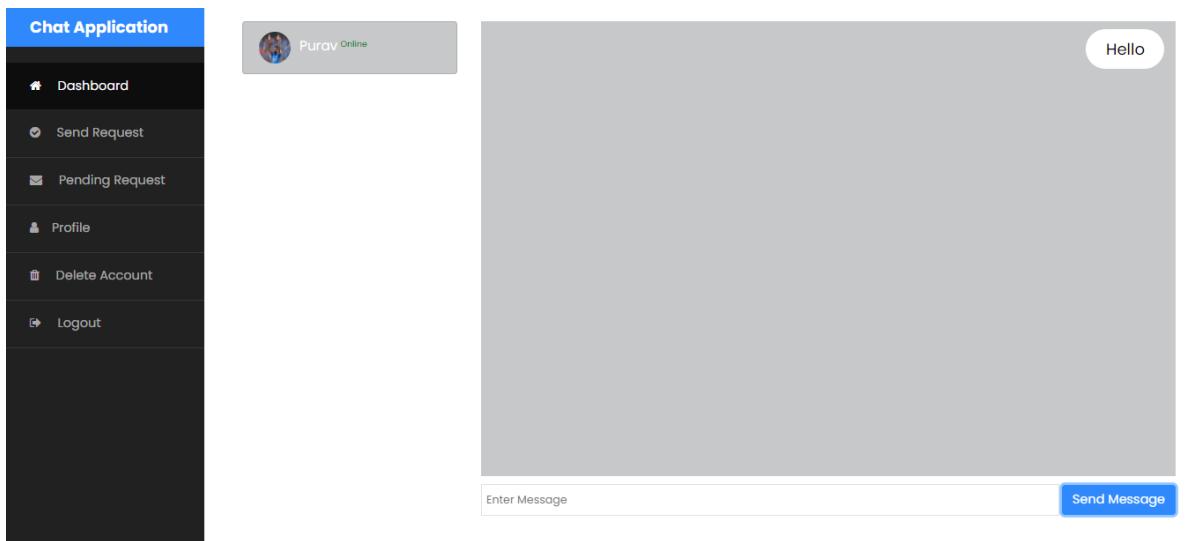
Industry Internship project is a golden opportunity for learning and self-development. I consider myself very lucky and honored to have so many wonderful people lead me through in completion of this project. First and foremost, I would like to thank Dr. Rohit Patel, Principal, ICT, and Prof. Dharmesh Darji , Head, ICT who gave us an opportunity to undertake this project. My grateful thanks to Prof. Neha Sisodia (Internal Guide) for their guidance in training work who despite being extraordinarily busy with academics, took time out to hear, guide and keep us on the correct path. We do not know where we would have been without his/her help. CSE department monitored our progress and arranged all facilities to make life easier. We choose this moment to acknowledge their contribution gratefully.

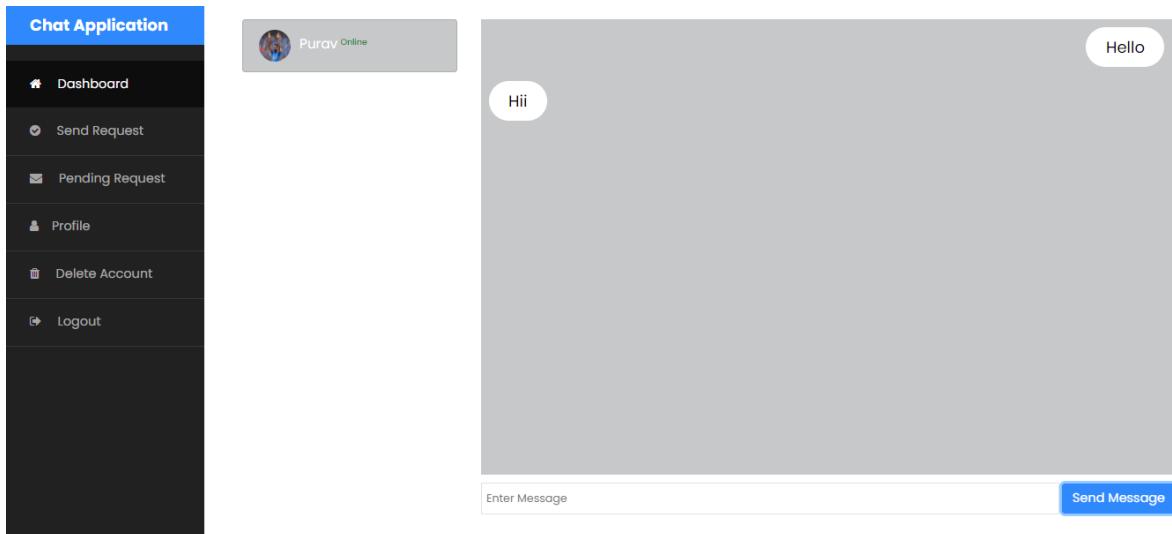
**SHAH JINAY PRATIKKUMAR (Enrolment No:20162121025)**

## WEEK 1

- My internship started from week 2.
- Before start of internship one task was given to make a chat application website in which use node.js as backend technology and ejs as frontend.
- In order to create real time chat experience I have used socket.io library.
- Link:<https://drive.google.com/drive/folders/1o7tF1IthZIqYlmeS47k71ciQqjZdw7wd>







The screenshot shows the 'User Profile' page of the 'Chat Application'. The layout is similar to the main screen, with a dark sidebar on the left and a central content area. The sidebar includes the application name and the same list of navigation items as the main screen. The central content area has a title 'User Profile' and displays a circular profile picture of a person in an Indian cricket team jersey. To the right of the profile picture, there are four data fields: 'Username' (Jinay), 'Email' (shahjinay@gmail.com), 'Mobile' (1234567890), and 'Friends' (1). Below these fields are two blue buttons: 'Edit Profile' and 'Change Password'.

## **WEEK 2**

- 600 tasks of C, OOPs and DSA was given.
- Link: <https://github.com/jinshah0322/STTL/tree/main/C%2COOPS%2CDSA>

## WEEK 3

- 20 HTML, CSS Tasks and one website template was to be prepared by vanila html and CSS.
- Link: <https://github.com/jinshah0322/STTL/tree/main/HTML-CSS>
- I also learned jQuery alongside Html and CSS.
- Link:<https://github.com/jinshah0322/STTL/tree/main/Self%20Study%2FjQuery>

The screenshot displays the official website of the Ministry of Power, Government of India. The header includes links for Feedback, FAQ's, Career, Achieves, Sitemap, Skip To Main Content, Screen Reader Access, A- A A+, Archives, Sitemap, Contact Us, English, and Register / Sign In. The main banner features a photograph of Prime Minister Narendra Modi and the text: "Integrated Platform for Power Sector Schemes". Below the banner, a quote from him is displayed: "Energy sector plays a big role in the progress of the country and contributes to both ease of living and ease of doing business" - Shri Narendra Modi, Hon'ble Prime Minister of India. The page is divided into sections: "Schemes" (with images of power lines, a hand signing documents, and an industrial facility), "Reporting Module" (with icons representing various reporting functions), and other navigation links like "About Us", "Quick Links", and "Grievances".



#### Press Release

[View All](#) ← →

29 December, 2022

[Energy Conservation \(Amendment\) Act, 2022 \(472.71 KB, pdf\)](#)

15 December, 2022

[Supply of Fly ash to the end users by the Power Plants to increase fly ash utilization \(440.89 KB, pdf\)](#)

7 December, 2022

[Assigning additional charge in CCIE-3 to Smt. Rashmi Verma \(CCIE-2\) \(174.51 KB, pdf\)](#)

#### Media Gallery

[View All](#) ← →



Vulnerable Hydro Projects/Power Stations, New Delhi



ISCO Steel Plant, West Bengal

## **WEEK 4**

- Task of RDBMS was given, which contains CRUD operations ,triggers ,joins, functions, store procedures, views, union, union all, clusteredIndex, nonClusteredIndex etc.
- Link: <https://github.com/jinshah0322/STTL/tree/main/RDBMS>
- Apart from this introduction to different team was given, lectures of SDLC, git, SVN, SAP, RPA.

## **WEEK 5**

- Introduction to asp.NET webforms and created 5 forms using asp.NET using SQL server as database.
- Link: <https://github.com/jinshah0322/ASP-.net/tree/master>

## WEEK 6

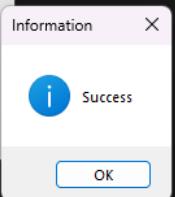
- Introduction to asp.NET WinForms.
- Created one form using asp.NET WinForms which performs CRUD operations and the database used is SQL Server
- Created Windows Calculator using asp.net WinForms which performs all the basic operations as windows calculator performs
- Link: <https://github.com/jinshah0322/ASP.net/tree/master/Win%20Forms>
- Screenshots(CRUD Form using asp.NET WinForms):

	FirstName	LastName	Gender	State	City	Email	DOB
Jinay	Shah	Male	Gujarat	Ahmedabad	jinay@gamil.com	09-02-2024	
Jinay	Shah	Female	Gujarat	Ahmedabad	jinay1@gamil.com	09-02-2024	
Xyz	fe	Female	sdf	asdf	j@j.com	01-02-2024	
asdf	gffg	Female	asdf	asdf	asdf@df.com	09-02-2024	
Jinay	asdf	Male	sad	asdf	sdf	07-02-2024	
ddd	asdf	Female	Chhattisgarh	Hazaribagh	asdf@sdf.com	09-02-2024	
*							

Form1

FirstName :	<input type="text"/>	Email :	<input type="text"/>
LastName :	<input type="text"/>	Date Of Birth :	28 March 2024 <input type="button" value="Calendar"/>
Gender :	<input type="radio"/> Male <input type="radio"/> Female	Number :	<input type="text"/>
State :	<input type="text"/>	InterestedTechnology :	<input type="checkbox"/> ASP.NET <input type="checkbox"/> SpringBoot <input type="checkbox"/> Nodejs <input type="checkbox"/> PHP
City :	<input type="text"/>	PreviousPost :	<input type="checkbox"/> Student <input type="checkbox"/> Intern <input type="checkbox"/> Employee

	FirstName	LastName	Gender	State	City	Email	DOB
▶	Jinay	Shah	Male	Gujarat	Ahmedabad	jinay@gamil.com	09-02-2024
	Jinay	Shah	Female	Gujarat	Ahmedabad	jinay1@gamil.com	09-02-2024
	Xyz	fe	Female	sdf	asdf	j@j.com	01-02-2024
	asdf	gffg	Female	asdf	asdf	asdf@df.com	09-02-2024
	Jinay	asdf	Male	sad	asdf	sdf	07-02-2024
	ddd	asdf	Female	Chhattisgarh	Hazaribagh	asdf@sdf.com	09-02-2024
	STTL	CMP	Male	Gujarat	Ahmedabad	sttl@sttl.com	28-03-2024



Form1

FirstName :	<input type="text"/>	March 2024 <input type="button" value="Calendar"/>
LastName :	<input type="text"/>	
Gender :	<input type="radio"/> Male <input type="radio"/> Female	
State :	<input type="text"/>	ASP.NET <input type="checkbox"/> SpringBoot <input type="checkbox"/> Nodejs <input type="checkbox"/> PHP
City :	<input type="text"/>	Student <input type="checkbox"/> Intern <input type="checkbox"/> Employee

	FirstName	LastName	Gender	State	City	Email	DOB
▶	Jinay	Shah	Male	Gujarat	Ahmedabad	jinay@gamil.com	09-02-2024
	Jinay	Shah	Female	Gujarat	Ahmedabad	jinay1@gamil.com	09-02-2024
	Xyz	fe	Female	sdf	asdf	j@j.com	01-02-2024
	asdf	gffg	Female	asdf	asdf	asdf@df.com	09-02-2024
	Jinay	asdf	Male	sad	asdf	sdf	07-02-2024
	STTL	CMP	Male	Gujarat	Ahmedabad	sttl@sttl.com	28-03-2024
*							

Form1

FirstName : STTL	Email : sttl@sttl.com					
LastName : CMP	Date Of Birth : 28 March 2024					
Gender : <input type="radio"/> Male <input checked="" type="radio"/> Female	Number : 1458587459					
State : Gujarat	InterestedTechnology : <input checked="" type="checkbox"/> ASP.NET <input checked="" type="checkbox"/> SpringBoot <input checked="" type="checkbox"/> Nodejs <input type="checkbox"/> PHP					
City : Ahmedabad	PreviousPost : <input checked="" type="checkbox"/> Student <input checked="" type="checkbox"/> Intern <input type="checkbox"/> Employee					
<input type="button" value="Update"/> <input type="button" value="Reset"/> <input type="button" value="Delete"/> <input type="button" value="Edit"/>						
FirstName	LastName	Gender	State	City	Email	DOB
Jinay	Shah	Male	Gujarat	Ahmedabad	jinay@gamil.com	09-02-2024
Jinay	Shah	Female	Gujarat	Ahmedabad	jinay1@gamil.com	09-02-2024
Xyz	fe	Female	sdf	asdf	j@j.com	01-02-2024
asdf	gffg	Female	asdf	asdf	asdf@df.com	09-02-2024
Jinay	asdf	Male	sad	asdf	sdf	07-02-2024
▶ STTL	CMP	Male	Gujarat	Ahmedabad	sttl@sttl.com	28-03-2024
*						

- Screenshots(Windows Calculator):



Form1

2 \*

10

A screenshot of a Windows application window titled "Form1". The title bar has standard minimize, maximize, and close buttons. The main area displays the calculation "2 \*" followed by the large number "10". Below this is a numeric keypad and function key layout. The numeric keys are arranged in four rows: 7, 8, 9 in the first; 4, 5, 6 in the second; 1, 2, 3 in the third; and 0, . (decimal point), +, = in the fourth. Function keys include x^2, sqrt(x), / (division), DEL, \*, CE, -, C, and = (equal). The button for "=" is highlighted with a blue border.

Form1

10 /

5

A screenshot of a Windows application window titled "Form1". The title bar has standard minimize, maximize, and close buttons. The main area displays the calculation "10 /" followed by the large number "5". Below this is a numeric keypad and function key layout. The numeric keys are arranged in four rows: 7, 8, 9 in the first; 4, 5, 6 in the second; 1, 2, 3 in the third; and 0, . (decimal point), +, = in the fourth. Function keys include x^2, sqrt(x), / (division), DEL, \*, CE, -, C, and = (equal). The button for "=" is highlighted with a blue border.

Form1

(25)<sup>2</sup>

625

A standard calculator interface with a numeric keypad and various function keys like x^2 and sqrt(x). The display shows the calculation (25)<sup>2</sup> and the result 625.

x <sup>2</sup>	sqrt(x)			
7	8	9	/	DEL
4	5	6	*	CE
1	2	3	-	C
0	.		+	=

Form1

SQRT(625)

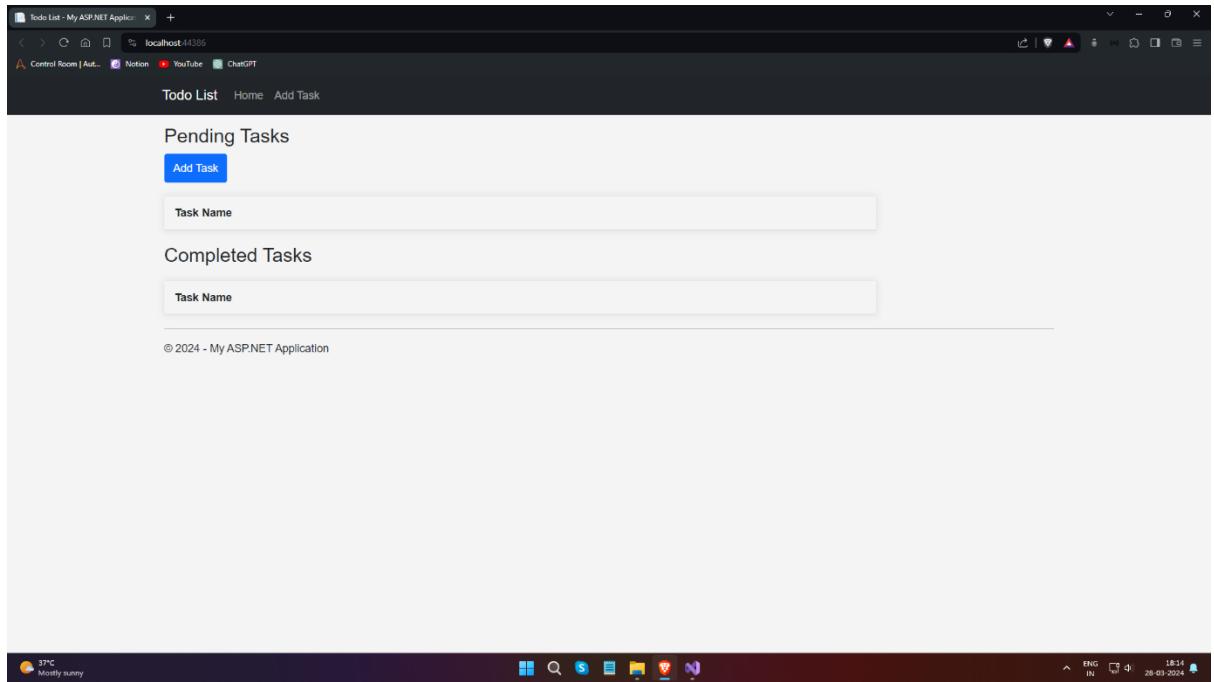
25

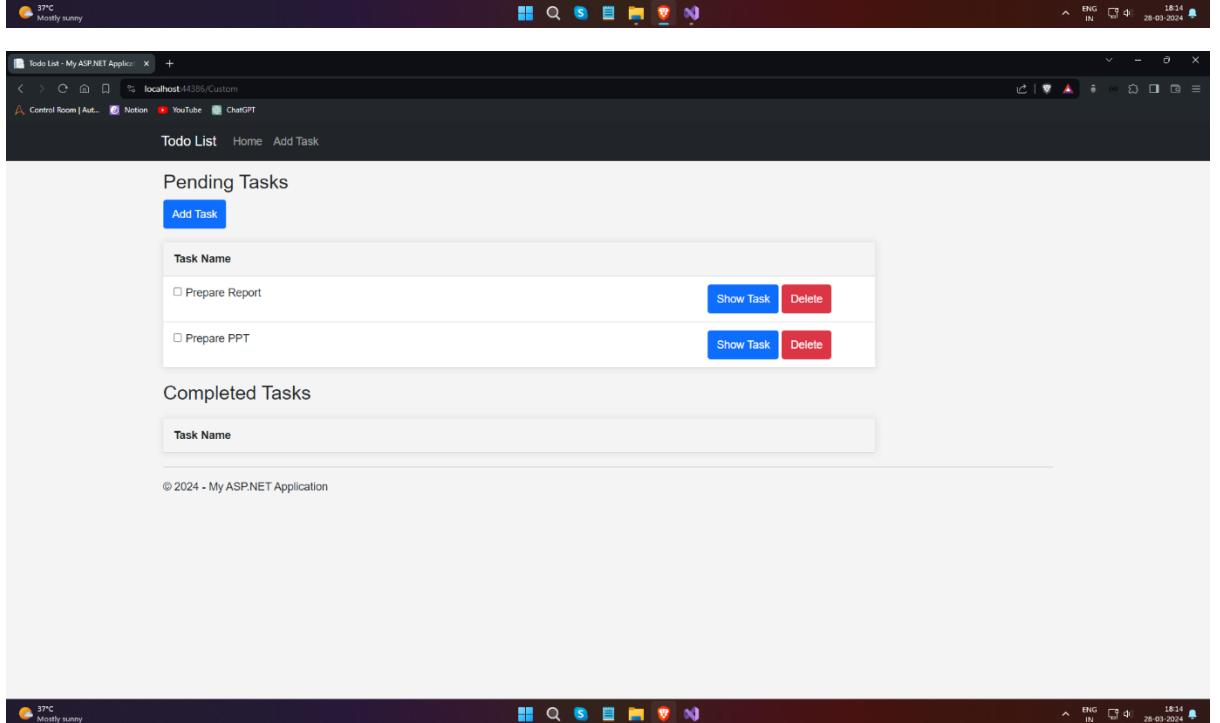
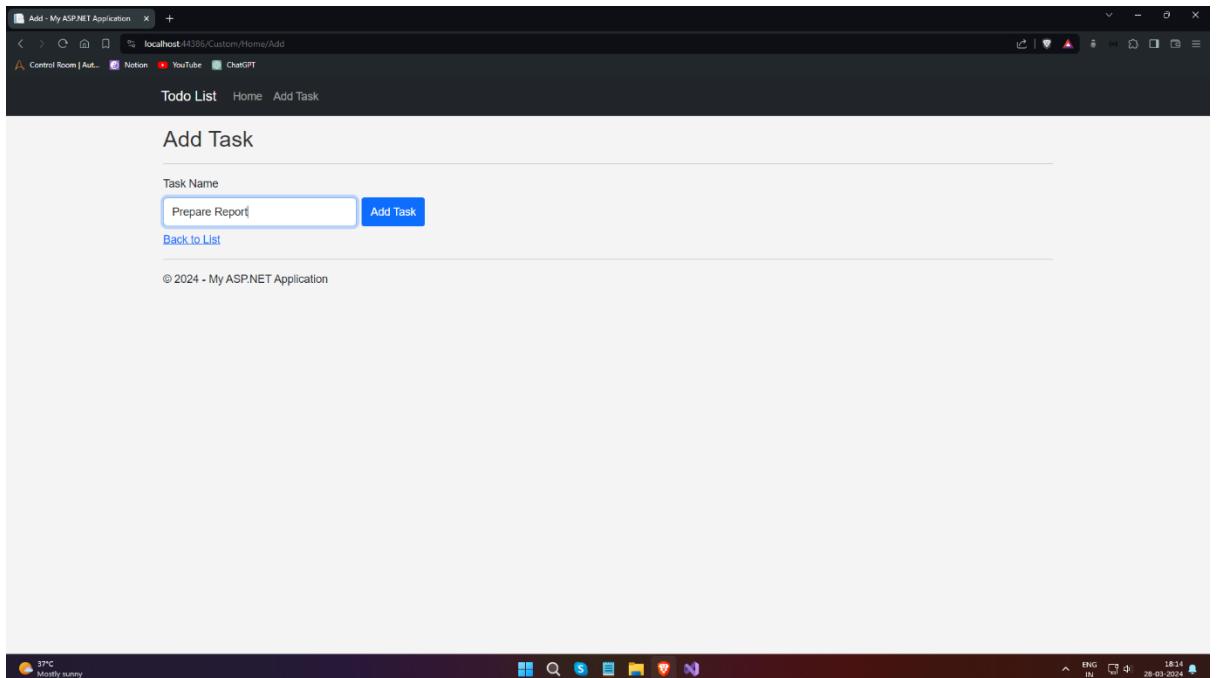
A standard calculator interface with a numeric keypad and various function keys like x^2 and sqrt(x). The display shows the square root of 625 and the result 25.

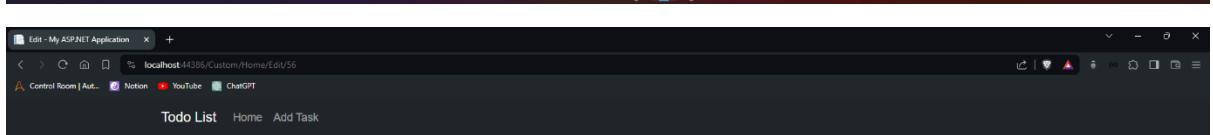
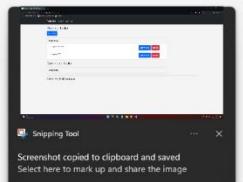
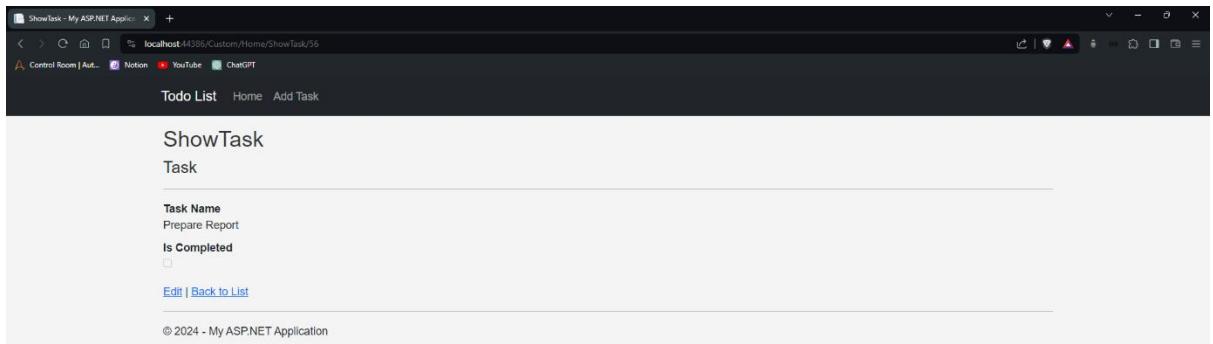
x <sup>2</sup>	sqrt(x)			
7	8	9	/	DEL
4	5	6	*	CE
1	2	3	-	C
0	.		+	=

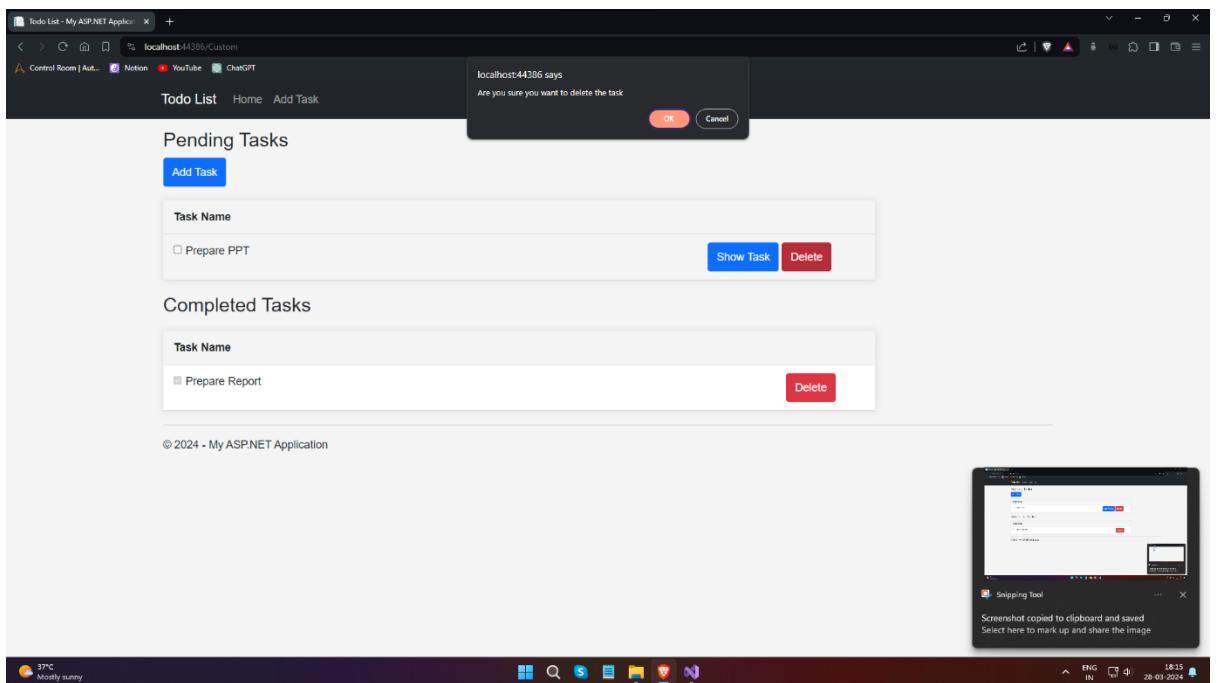
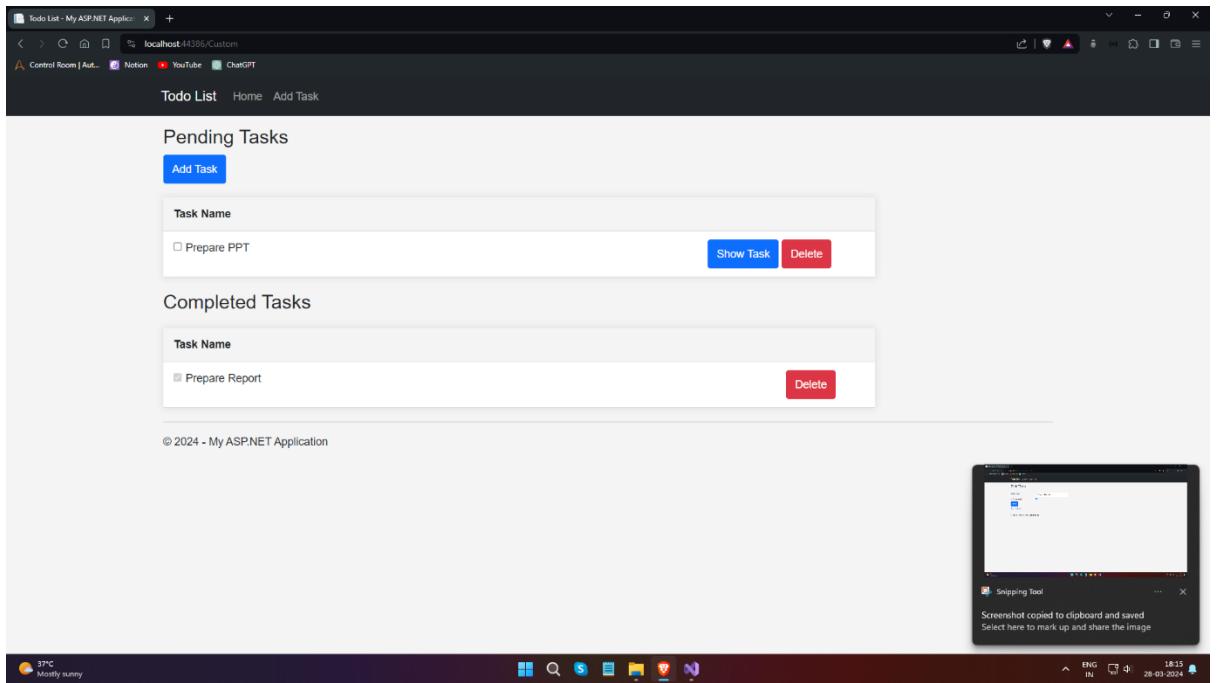
## WEEK 7

- Introduction to asp.NET MVC framework.
- Created CRUD application using code first approach where the model is created first in asp.NET MVC and on building the application the respective model gets created in database note used database is SQL Server.
- Created CRUD application using Database first approach where there is already table present in data base and on scaffolding it its model gets created in asp.NET MVC.
- Created TODO list application using database first as well as code first approach
- Created Question paper and answer management system using database first approach.
- Link: <https://github.com/jinshah0322/ASP-.net/tree/master/MVC>
- Screenshots(TodoList using asp.NET MVC):



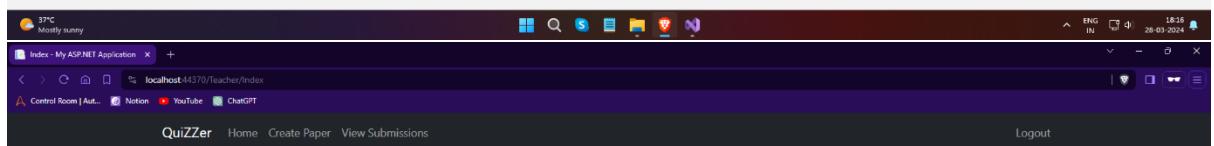






- Screenshots(Question paper and Answer Management System):

The screenshot shows a registration form titled "Register". It includes fields for "Username" (STTL), "Email" (sttl@sttl.com), "Password" (\*\*\*\*\*), and "Role" (Student). A "Register" button is at the bottom, and a link to "Login" is below it.



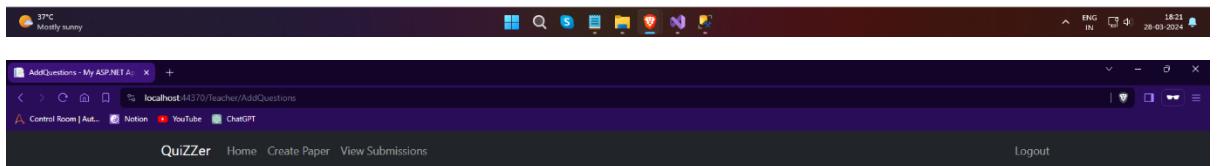
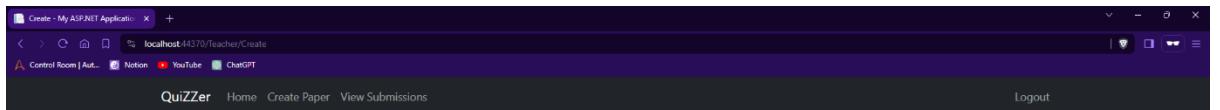
### Question Papers

[Create New](#)

Title	Description	CreationDate	Status
Science Quiz	Basic Science questions	20-02-2024 00:00:00	Pending

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The screenshot shows a web browser window titled "Index - My ASP.NET Application" with the URL "localhost:44370/Teacher/Index". The page is titled "QuiZZer" and includes links for "Home", "Create Paper", and "View Submissions". A "Logout" link is in the top right. The main content is titled "Question Papers" and features a "Create New" button. Below is a table with two rows:

Title	Description	CreationDate	Status	
Science Quiz	Basic Science questions	20-02-2024 00:00:00	Pending	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>
Odoo	One and only free erp providing platform	28-03-2024 00:00:00	Draft	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>

At the bottom left is the copyright notice "© 2024 - My ASP.NET Application".

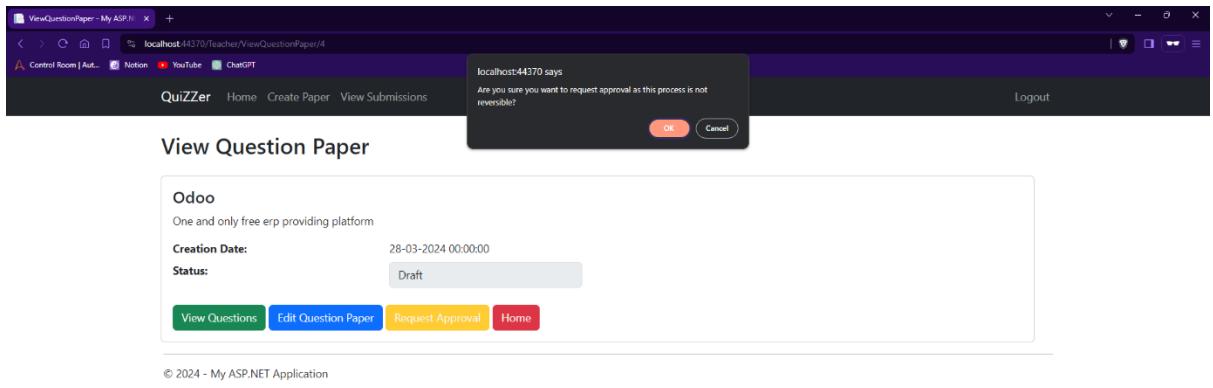
The screenshot shows a web browser window titled "ViewQuestionPaper - My ASP.NET Application" with the URL "localhost:44370/Teacher/ViewQuestionPaper/4". The page is titled "QuiZZer" and includes links for "Home", "Create Paper", and "View Submissions". A "Logout" link is in the top right. The main content is titled "View Question Paper" and displays the details for the paper "Odoo":

**Odoo**  
One and only free erp providing platform  
Creation Date: 28-03-2024 00:00:00  
Status: Draft

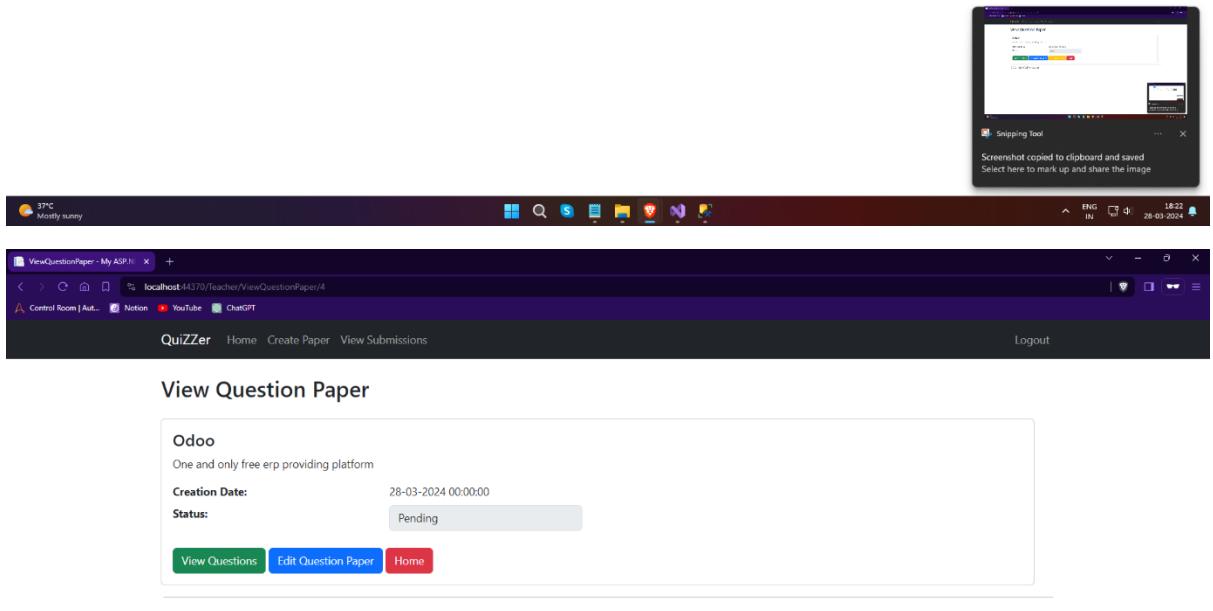
Below are four buttons: "View Questions", "Edit Question Paper", "Request Approval", and "Home".

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A screenshot of a web browser window titled "View Questions - My ASP.NET Application". The URL is "localhost:44370/Teacher/ViewQuestions/4". The page header includes "QuiZZer", "Home", "Create Paper", "View Submissions", and "Logout". Below the header is a section titled "View Questions" containing a question about Odoo. The question text is: "Is it python's framework?". Below the text are four radio buttons: "yes" (selected), "no", "dont know", and "may be". At the bottom of the question card are "Edit" and "Delete" buttons, and links for "Add New" and "Home".

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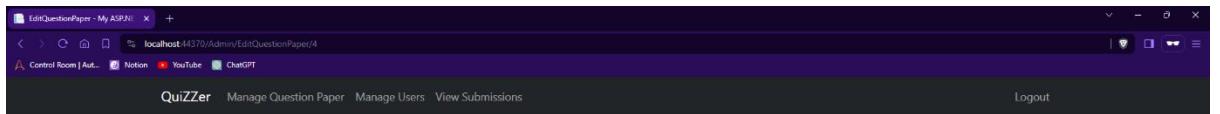
A screenshot of a web browser window titled "Index - My ASP.NET Application". The URL is "localhost:44370/Admin/Index". The page header includes "QuiZZer", "Manage Question Paper", "Manage Users", "View Submissions", and "Logout". Below the header is a section titled "Question Papers" with a "Create New" button. A table lists one question paper entry:

Creator Name	Title	Description	CreationDate	Status	Action
Vishal	Odoo	One and only free erp providing platform	28-03-2024 00:00:00	Pending	<a href="#">View</a> <a href="#">Edit</a> <a href="#">Delete</a>

At the bottom of the page is the copyright notice: "© 2024 - My ASP.NET Application".

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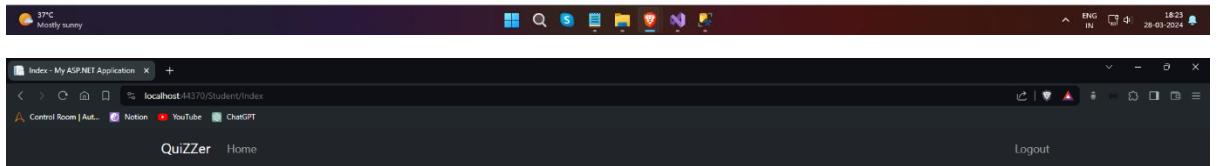


### Edit Question Paper

Title	Odoo
Description	One and only free erp providing pla...
CreationDate	28-03-2024
Status	Pending

[Save](#) [Edit Questions](#) [Home](#)

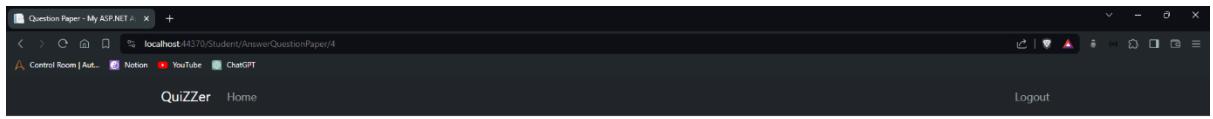
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### Question Bank

Title	Description	Submission Date	Actions
Odoo	One and only free erp providing platform	-----	<a href="#">View</a> <a href="#">Attempt</a>





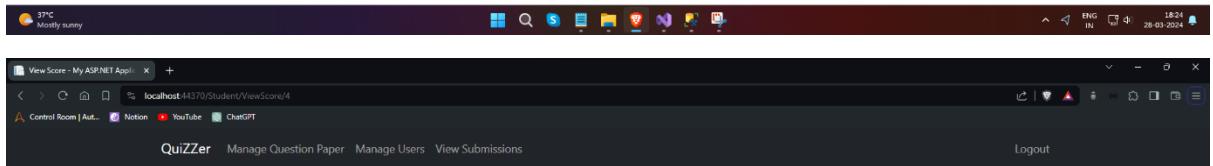
## Question Paper

Is it python's framework?

- yes
- no
- dont know
- may be

[Submit](#) [Cancel](#)

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## View Score

Odoo

Score:1

Is it python's framework?

- yes
  - no
  - dont know
  - may be
- Correct Answer: yes

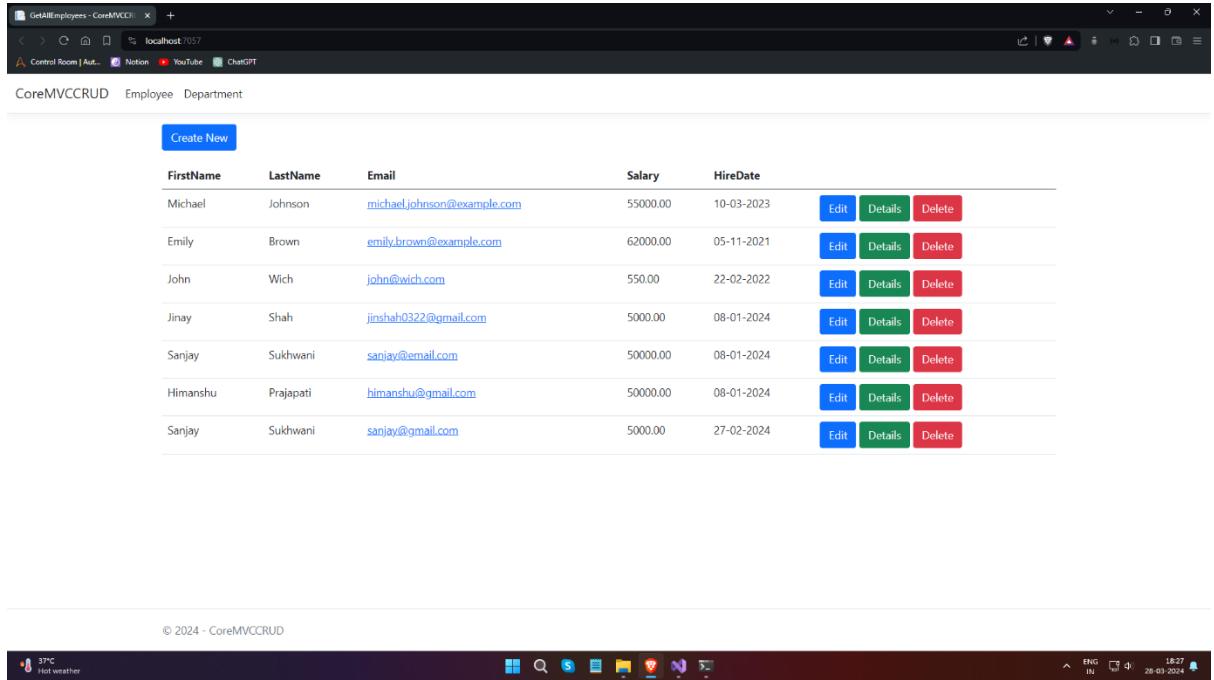
[Home](#)

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## WEEK 8

- Introduction to asp.NET core framework.
- Introduction to API in asp.NET core framework.
- Link: <https://github.com/jinshah0322/ASP.NET-Core/tree/master>
- Screenshots:



FirstName	LastName	Email	Salary	HireDate			
Michael	Johnson	michael.johnson@example.com	55000.00	10-03-2023	<button>Edit</button>	<button>Details</button>	<button>Delete</button>
Emily	Brown	emily.brown@example.com	62000.00	05-11-2021	<button>Edit</button>	<button>Details</button>	<button>Delete</button>
John	Wich	john@wich.com	550.00	22-02-2022	<button>Edit</button>	<button>Details</button>	<button>Delete</button>
Jinay	Shah	jinshah0322@gmail.com	5000.00	08-01-2024	<button>Edit</button>	<button>Details</button>	<button>Delete</button>
Sanjay	Sukhwani	sanjay@email.com	50000.00	08-01-2024	<button>Edit</button>	<button>Details</button>	<button>Delete</button>
Himanshu	Prajapati	himanshu@gmail.com	50000.00	08-01-2024	<button>Edit</button>	<button>Details</button>	<button>Delete</button>
Sanjay	Sukhwani	sanjay@gmail.com	5000.00	27-02-2024	<button>Edit</button>	<button>Details</button>	<button>Delete</button>

© 2024 - CoreMVCCRUD



Create - CoreMVCCRUD

localhost:7057/Home/Create

Control Room | Aut.. Notion YouTube ChatGPT

CoreMVCCRUD Employee Department

## Create

### Employee

FirstName	<input type="text"/>
LastName	<input type="text"/>
Email	<input type="text"/>
Salary	<input type="text"/>
HireDate	<input type="text"/> dd-mm-yyyy
<a href="#">Create</a>	
<a href="#">Back to List</a>	

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Index - CoreMVCCRUD

localhost:7057/Department/Index

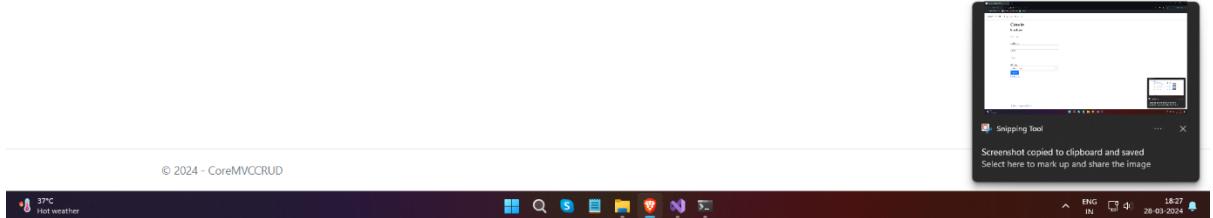
Control Room | Aut.. Notion YouTube ChatGPT

CoreMVCCRUD Employee Department

[Create New](#)

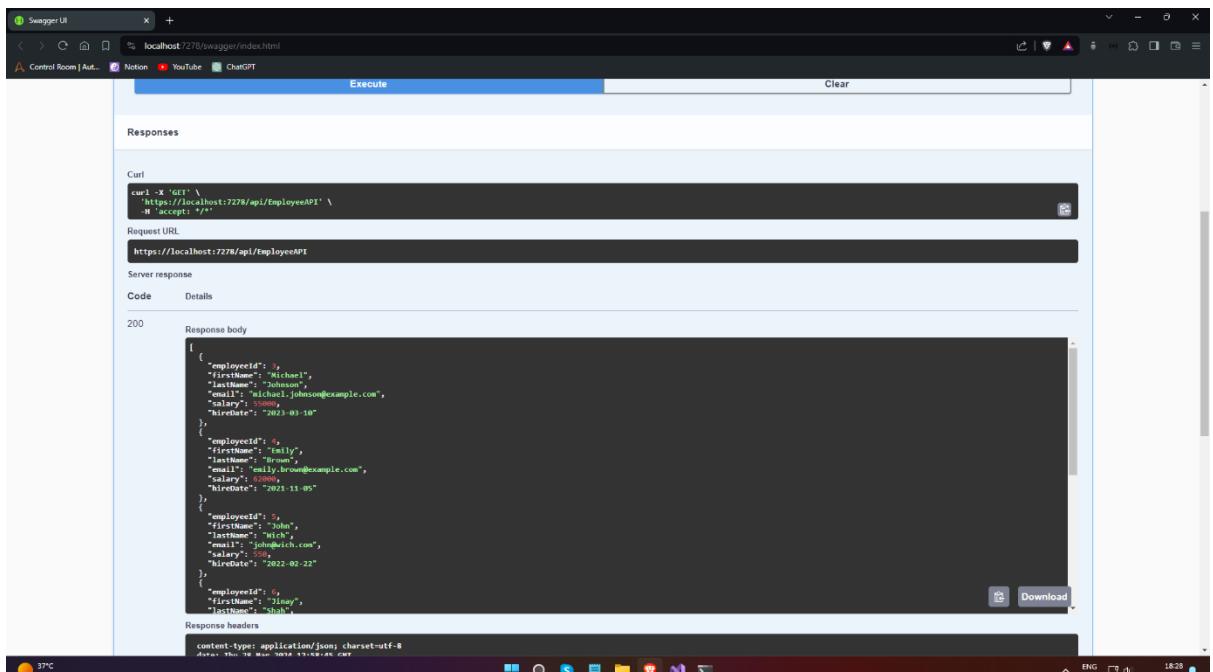
DepartmentName	DepartmentHead	Budget	CreationDate	IsActive			
Marketing	John Doe	10000.00	22-02-2024	<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Details</a>	<a href="#">Delete</a>
Finance	Jane Smith	15000.00	22-02-2024	<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Details</a>	<a href="#">Delete</a>
HR	Michael Johnson	12000.00	22-02-2024	<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Details</a>	<a href="#">Delete</a>
IT	Emily Brown	20000.00	22-02-2024	<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Details</a>	<a href="#">Delete</a>
Operations	David Wilson	18000.00	22-02-2024	<input type="checkbox"/>	<a href="#">Edit</a>	<a href="#">Details</a>	<a href="#">Delete</a>

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## WEEK 9

- Completed the small CRUD tasks given to complete using asp.NET core framework.
- Created logs API and published it on IIS server.
- Created Order management API and consumed it in application made with asp.NET core MVC.
- Link: <https://github.com/jinshah0322/ASP.NET-Core/tree/master>
- Screenshots:

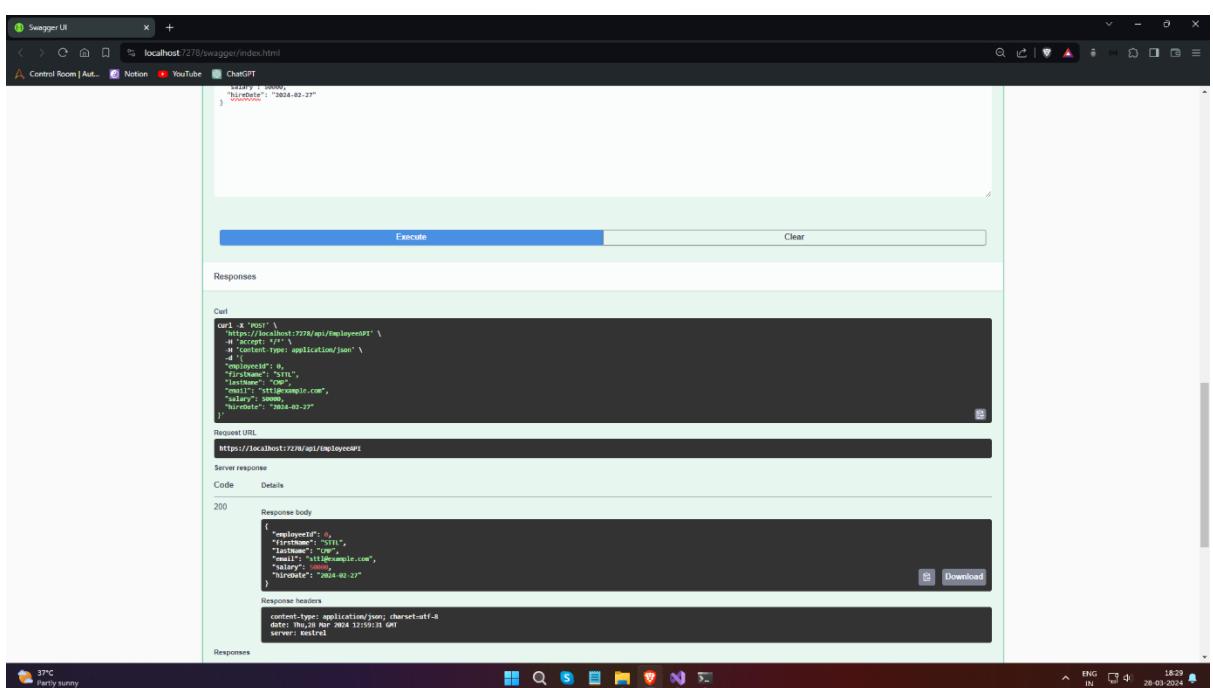


The screenshot shows the Swagger UI interface for an ASP.NET Core API. The URL is `localhost:7278/swagger/index.html`. The "Responses" section displays a successful `GET` request to the `/api/EmployeeAPI` endpoint. The response body contains a JSON array of four employee objects:

```
[{"employeeId": 1, "firstName": "Michael", "lastName": "Johnson", "email": "michael.johnson@example.com", "salary": 50000, "hireDate": "2023-01-10"}, {"employeeId": 2, "firstName": "Emily", "lastName": "Brown", "email": "emily.brown@example.com", "salary": 62000, "hireDate": "2021-11-05"}, {"employeeId": 3, "firstName": "John", "lastName": "Smith", "email": "john.smith@example.com", "salary": 55000, "hireDate": "2022-02-22"}, {"employeeId": 4, "firstName": "Sohail", "lastName": "Shah", "email": "sohail.shah@example.com", "salary": 58000, "hireDate": "2024-02-27"}]
```

The "Response headers" section shows the following content:

```
content-type: application/json; charset=utf-8
date: Thu, 28 Mar 2024 12:59:31 GMT
server: Kestrel
```



The screenshot shows the Swagger UI interface for an ASP.NET Core API. The URL is `localhost:7278/swagger/index.html`. The "Responses" section displays a successful `POST` request to the `/api/EmployeeAPI` endpoint. The response body contains a single employee object with the ID 4 and the specified details:

```
{"employeeId": 4, "firstName": "Sohail", "lastName": "Shah", "email": "sohail.shah@example.com", "salary": 58000, "hireDate": "2024-02-27"}
```

The "Response headers" section shows the following content:

```
content-type: application/json; charset=utf-8
date: Thu, 28 Mar 2024 12:59:31 GMT
server: Kestrel
```

Swagger UI

localhost:7278/swagger/index.html

Control Room | Aut... Notion YouTube ChatGPT

Parameters

Name	Description
<b>id</b> <small>required</small>	integer(\$int32) 1019 (path)

Execute Clear

Responses

Curl

```
curl -X 'GET' \
  'https://localhost:7278/api/EmployeeAPI/1019' \
  -H 'Accept: */*
```

Request URL

<https://localhost:7278/api/EmployeeAPI/1019>

Server response

Code Details

200 Response body

```
{
  "employeeId": 1019,
  "firstName": "Sanjay",
  "lastName": "Sohoni",
  "email": "sanjay@gmail.com",
  "salary": 5000,
  "hireDate": "2024-02-27"
}
```

Download

Response headers

```
content-type: application/json; charset=utf-8
date: Thu, 28 Mar 2024 11:00:00 GMT
server: Kestrel
```

37°C Partly sunny

ENG IN 18:30 28-03-2024

Swagger UI

localhost:7278/swagger/index.html

Control Room | Aut... Notion YouTube ChatGPT

Parameters

Name	Description
<b>id</b> <small>required</small>	integer(\$int32) 1019 (path)

Execute Clear

Responses

Curl

```
curl -X 'DELETE' \
  'https://localhost:7278/api/EmployeeAPI/1019' \
  -H 'Accept: */*
```

Request URL

<https://localhost:7278/api/EmployeeAPI/1019>

Server response

Code Details

200 Response body

```
{
  "employeeId": 1019,
  "firstName": "Sanjay",
  "lastName": "Sohoni",
  "email": "sanjay@gmail.com",
  "salary": 5000,
  "hireDate": "2024-02-27"
}
```

Download

Response headers

```
content-type: application/json; charset=utf-8
date: Thu, 28 Mar 2024 13:00:41 GMT
server: Kestrel
```

37°C Partly sunny

ENG IN 18:30 28-03-2024

The screenshot shows the Swagger UI interface for a .NET Core API. The URL is `http://192.168.11.57:8082/swagger/index.html`. The endpoint being viewed is `/api/EmployeeAPI`. The "Responses" section shows a sample response body:

```
[{"employeeId": 0, "firstName": "Michael", "lastName": "Johnson", "email": "michael.johnson@example.com", "salary": 60000, "hiredate": "2023-03-10"}, {"employeeId": 1, "firstName": "Emily", "lastName": "Brown", "email": "emily.brown@example.com", "salary": 55000, "hiredate": "2021-11-05"}, {"employeeId": 2, "firstName": "John",
```

- Screenshots(Published API on IIS):

The screenshot shows the Swagger UI interface for a .NET Core API. The URL is `http://192.168.11.57:8082/swagger/index.html`. The endpoint being viewed is `/api/EmployeeAPI`. The "Responses" section shows a sample response body:

```
{ "employeeId": 0, "firstName": "Michael", "lastName": "Johnson", "email": "michael.johnson@example.com", "salary": 60000, "hiredate": "2024-02-27" }
```

Swagger UI

Not secure | 192.168.11.57:8082/swagger/index.html

Control Room | Aut.. Notion YouTube ChatGPT

Parameters

Name	Description
<b>id</b> <small>required</small>	<code>Integer(\$int32)</code> 5 (path)

Execute Clear

Responses

Curl

```
curl -X GET \n  http://192.168.11.57:8082/api/employeeAPI/5 \n  -H 'Accept: */*' \n
```

Request URL

`http://192.168.11.57:8082/api/employeeAPI/5`

Server response

Code Details

200 Response body

```
{\n    "employeeId": 5,\n    "firstName": "John",\n    "lastName": "Doe",\n    "email": "user@example.com",\n    "salary": 500,\n    "hireDate": "2024-02-22"\n}
```

Download

Response headers

```
Content-Type: application/json\nContent-Length: 144\nDate: Thu, 28 Mar 2024 12:04:42 GMT\nServer: Microsoft-IIS/10.0\nTranfer-Encoding: chunked
```

Responses

Code Description

200 Success

Links

No links

37°C Party sunny

18:34 28-03-2024

Swagger UI

Not secure | 192.168.11.57:8082/swagger/index.html

Control Room | Aut.. Notion YouTube ChatGPT

Request body

application/json

```
{\n    "employeeId": 5,\n    "firstName": "John",\n    "lastName": "Doe",\n    "email": "user@example.com",\n    "salary": 500,\n    "hireDate": "2024-02-22"\n}
```

Execute Clear

Responses

Curl

```
curl -X POST \n  http://192.168.11.57:8082/api/employeeAPI/5 \n  -H 'Content-Type: application/json' \n  -d ' {\n    \"employeeId\": 5,\n    \"firstName\": \"John\", \n    \"lastName\": \"Doe\", \n    \"email\": \"user@example.com\", \n    \"salary\": 500, \n    \"hireDate\": \"2024-02-22\" \n}' \n
```

Request URL

`http://192.168.11.57:8082/api/employeeAPI/5`

Server response

Code Details

200 Response body

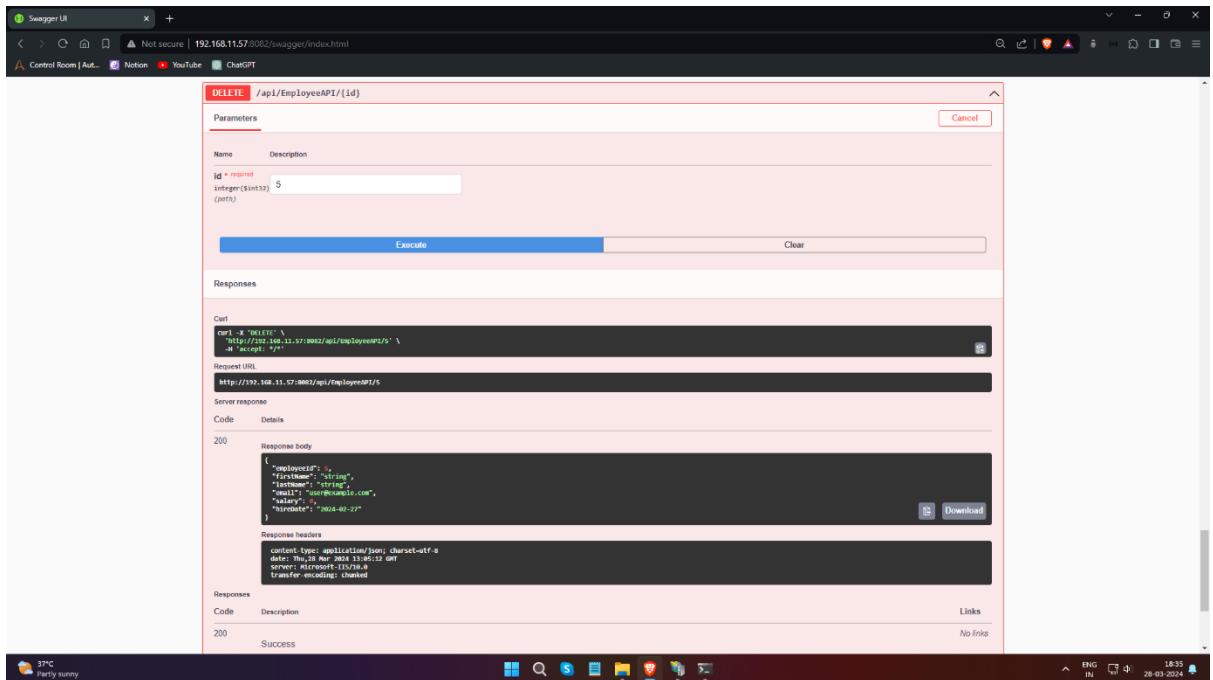
```
{\n    "employeeId": 5,\n    "firstName": "John",\n    "lastName": "Doe",\n    "email": "user@example.com",\n    "salary": 500,\n    "hireDate": "2024-02-22"\n}
```

Links

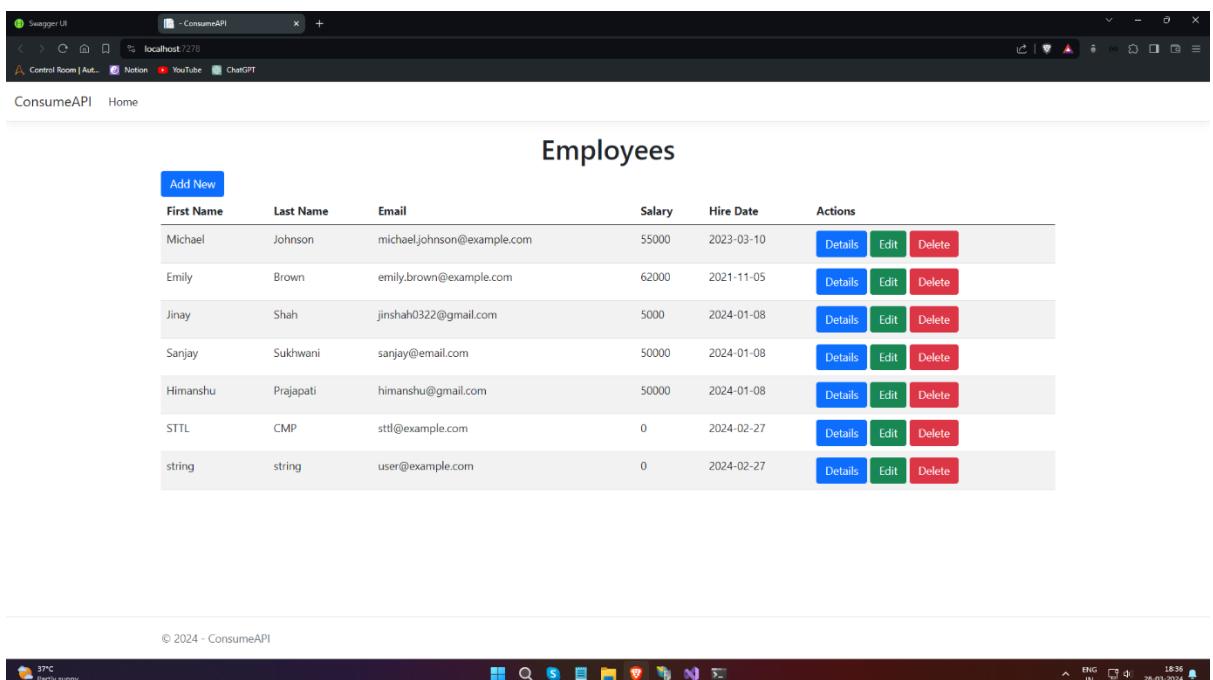
No links

37°C Party sunny

18:35 28-03-2024



- Screenshots(Consumed API):

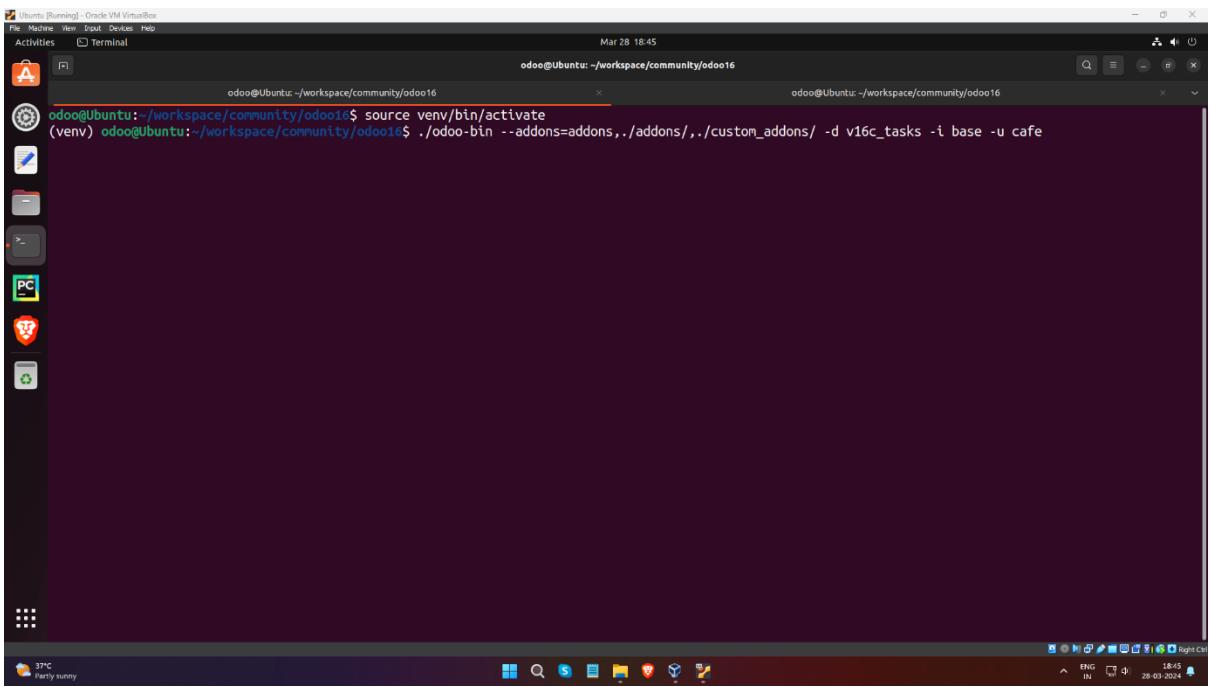


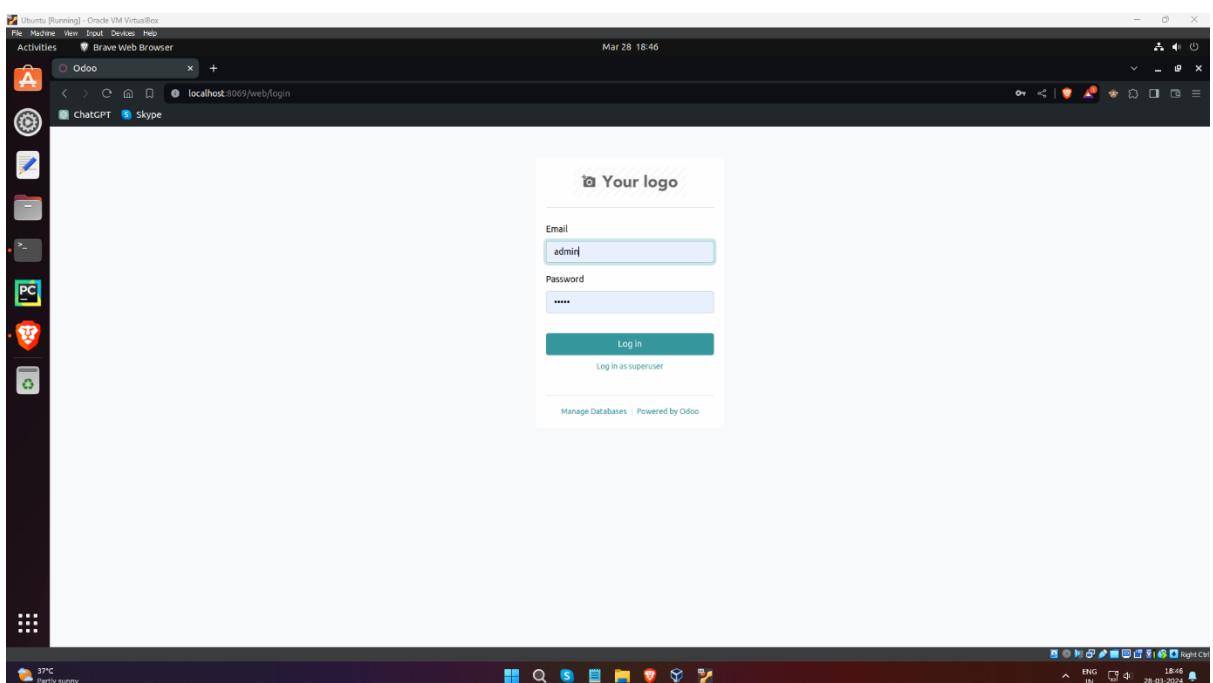
## **WEEK 10**

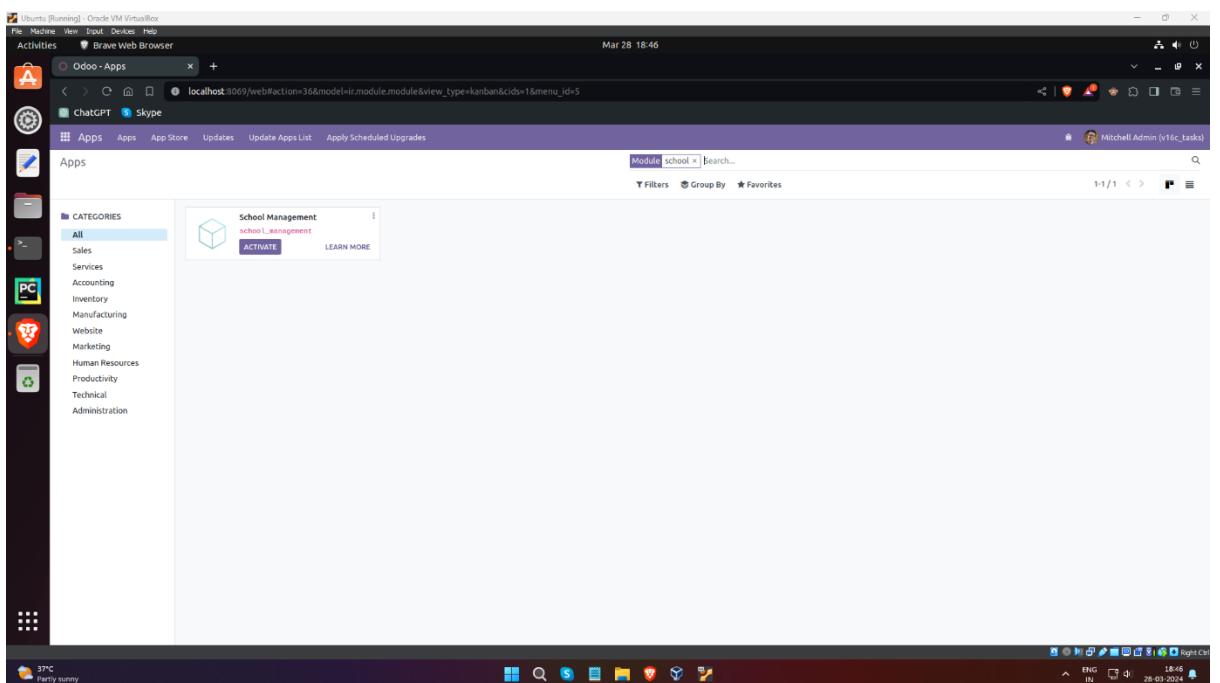
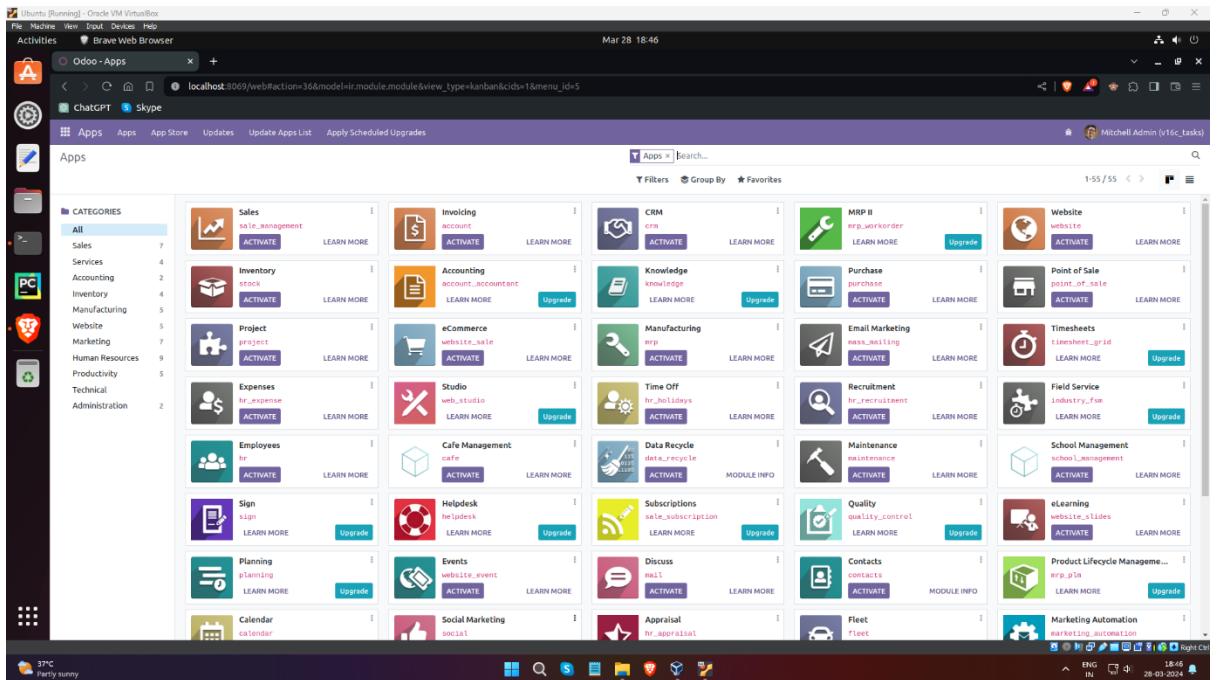
- Introduction to python(given tasks related to python)
- Introduction to PostgreSQL(given tasks related to PostgreSQL)
- Link: <https://github.com/jinshah0322/STTL/tree/main/Month%203>

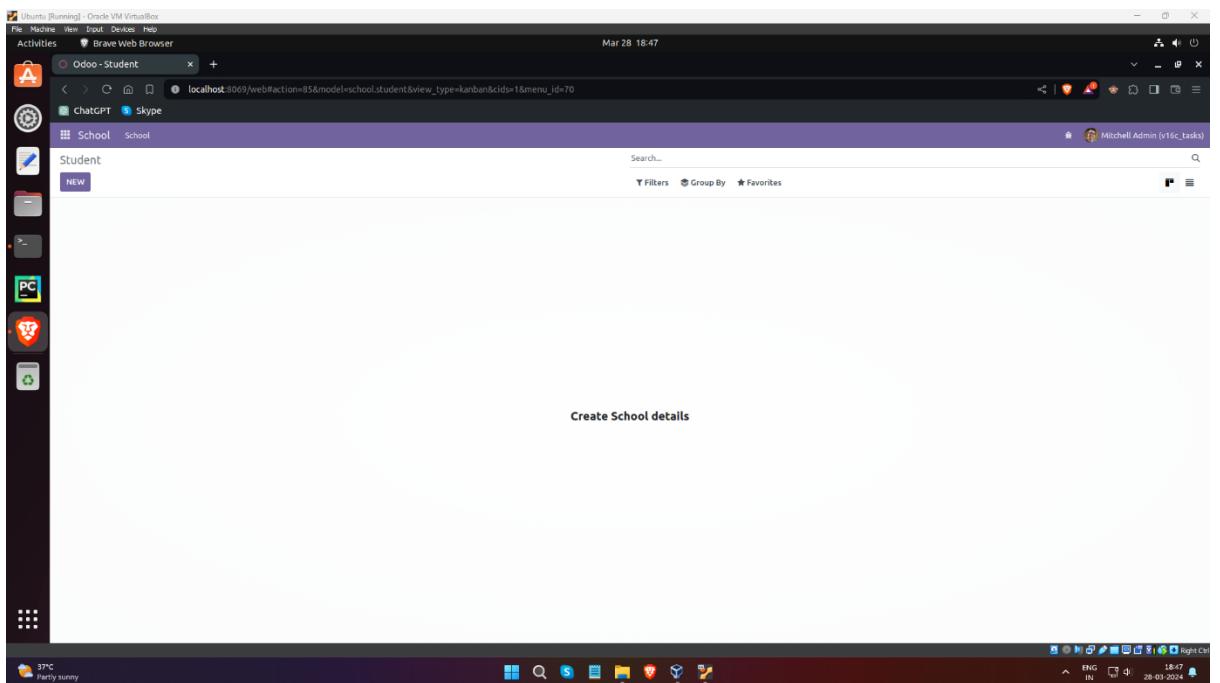
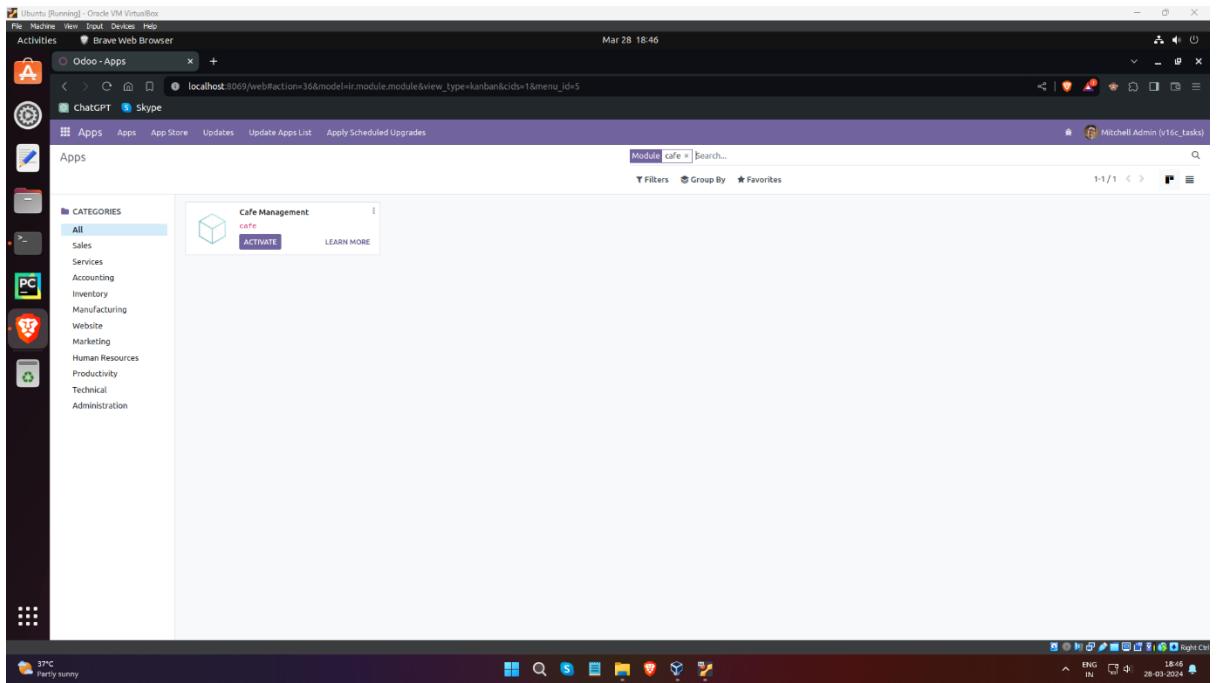
## WEEK 11

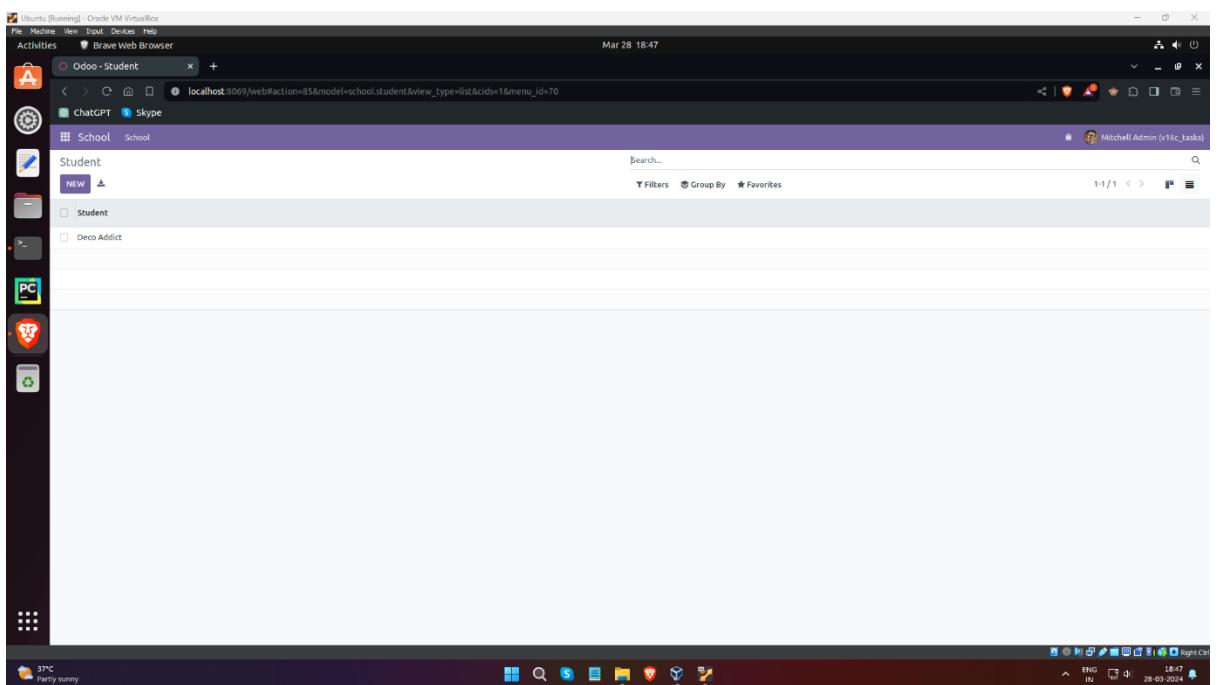
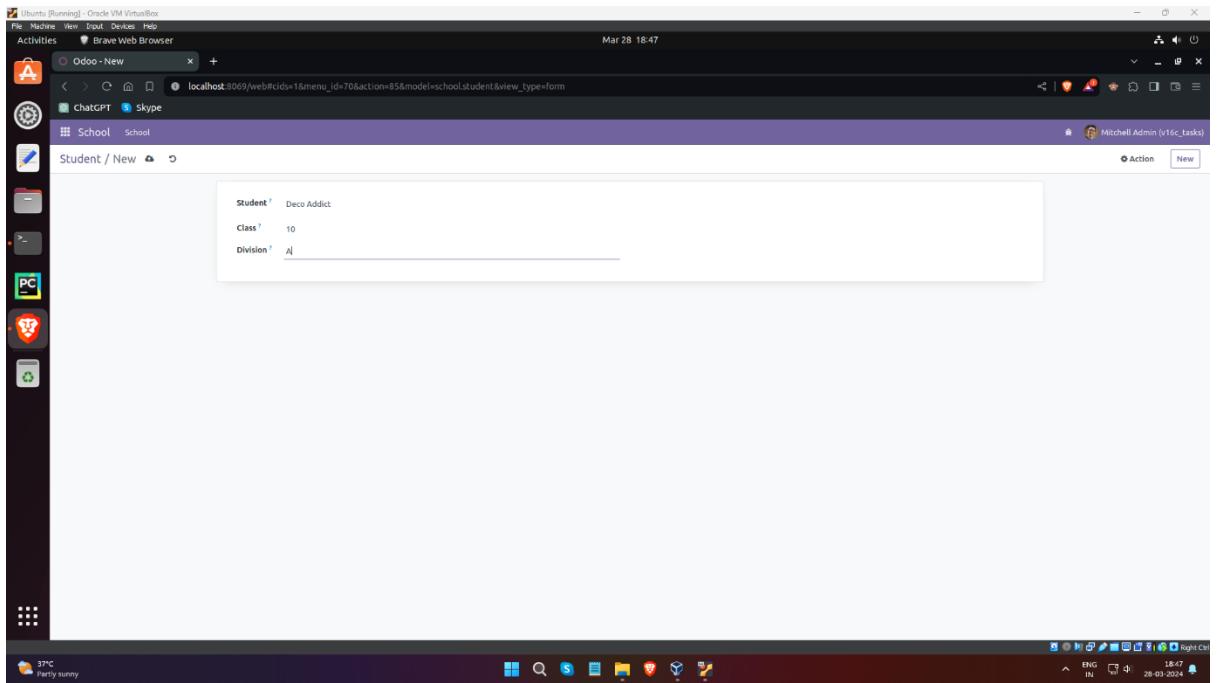
- Introduction to Odoo a framework by python
- Learned to create a custom module in odoo with models and views.
- Link:<https://github.com/jinshah0322/odoo-STTL>
- Introduction to RPA given tasks to perform in automation anywhere 360.
- Link:<https://github.com/jinshah0322/STTL/tree/main/Month%203/RPA>
- RPA : <https://community.cloud.automationanywhere.digital/#/home>
- Screenshots(Odoo):

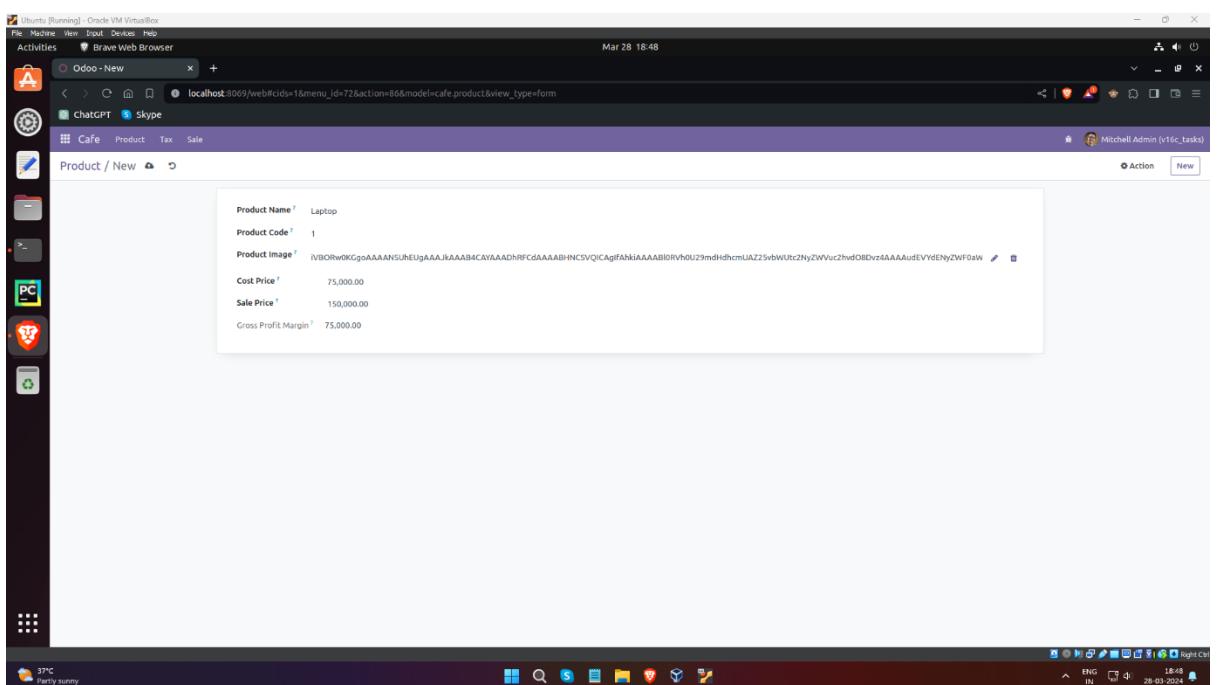
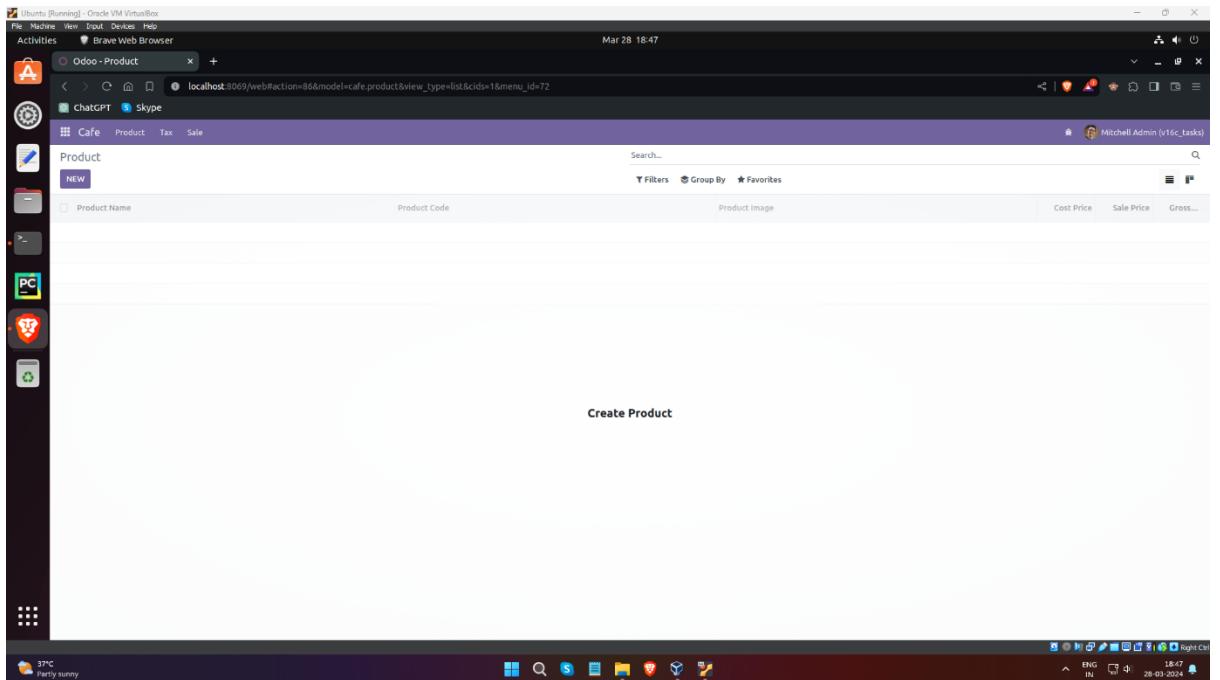








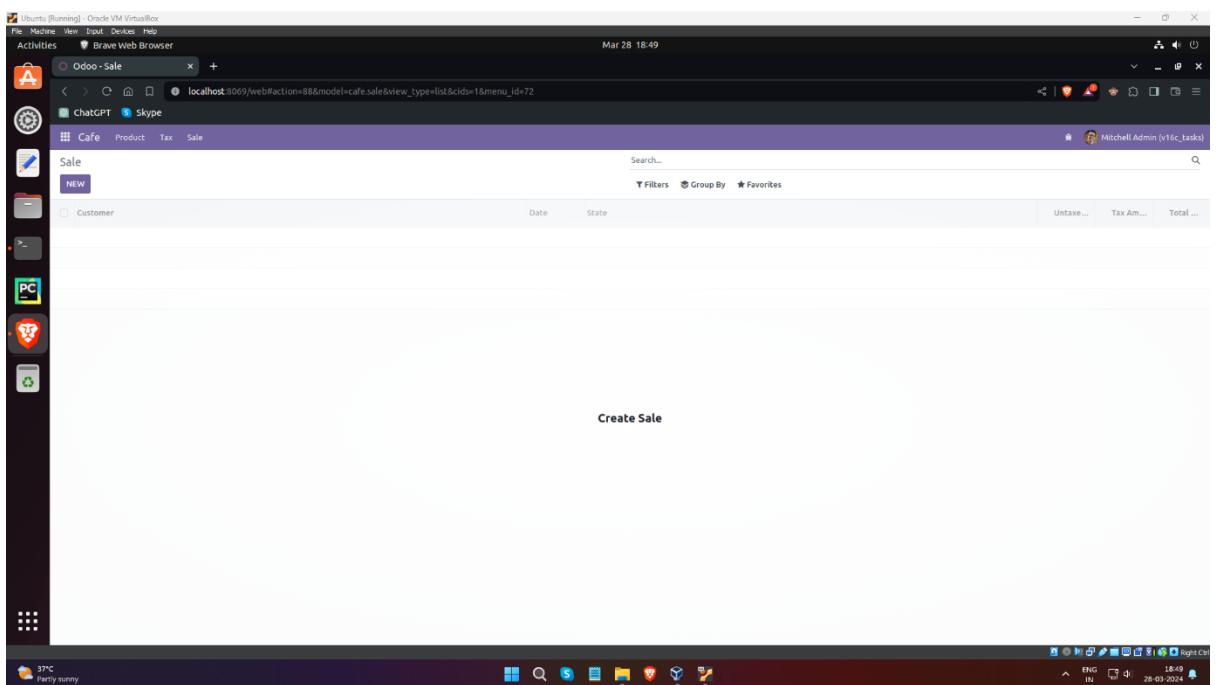
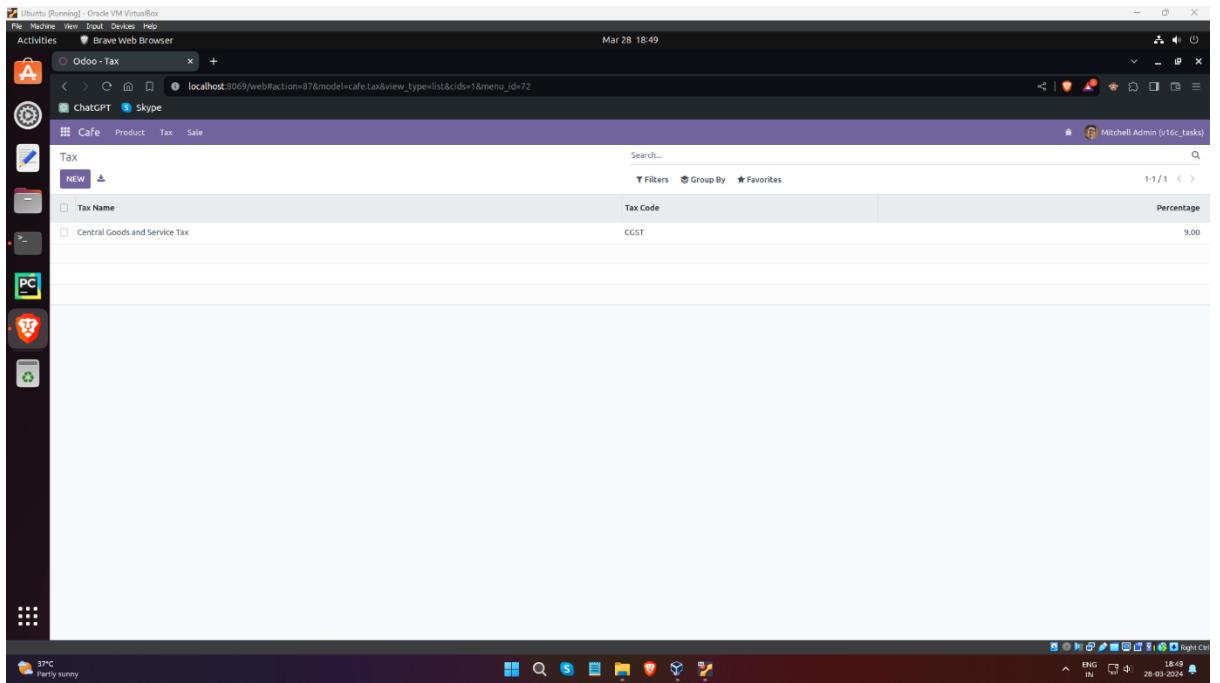


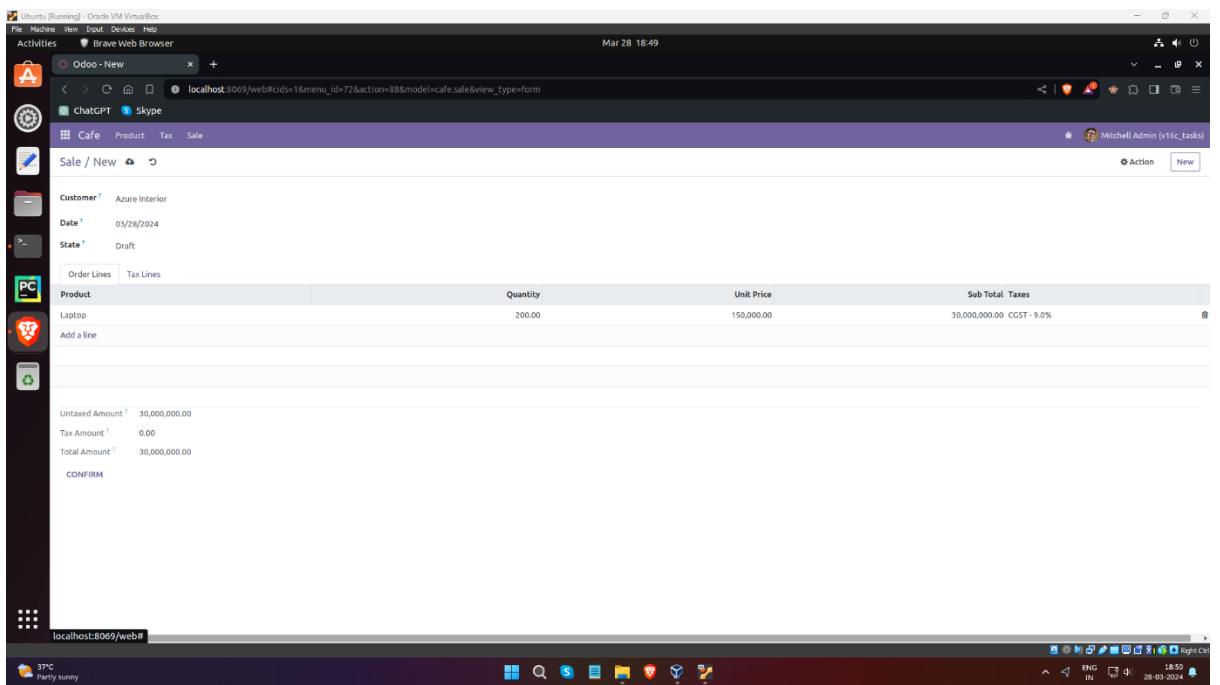
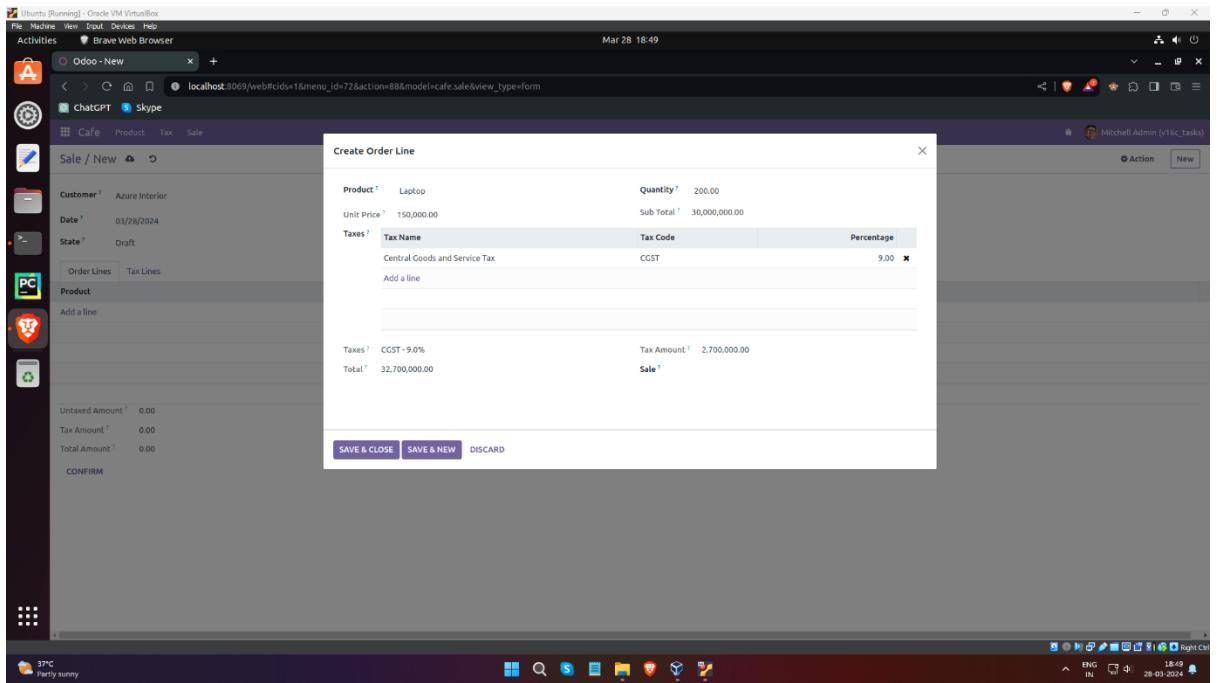


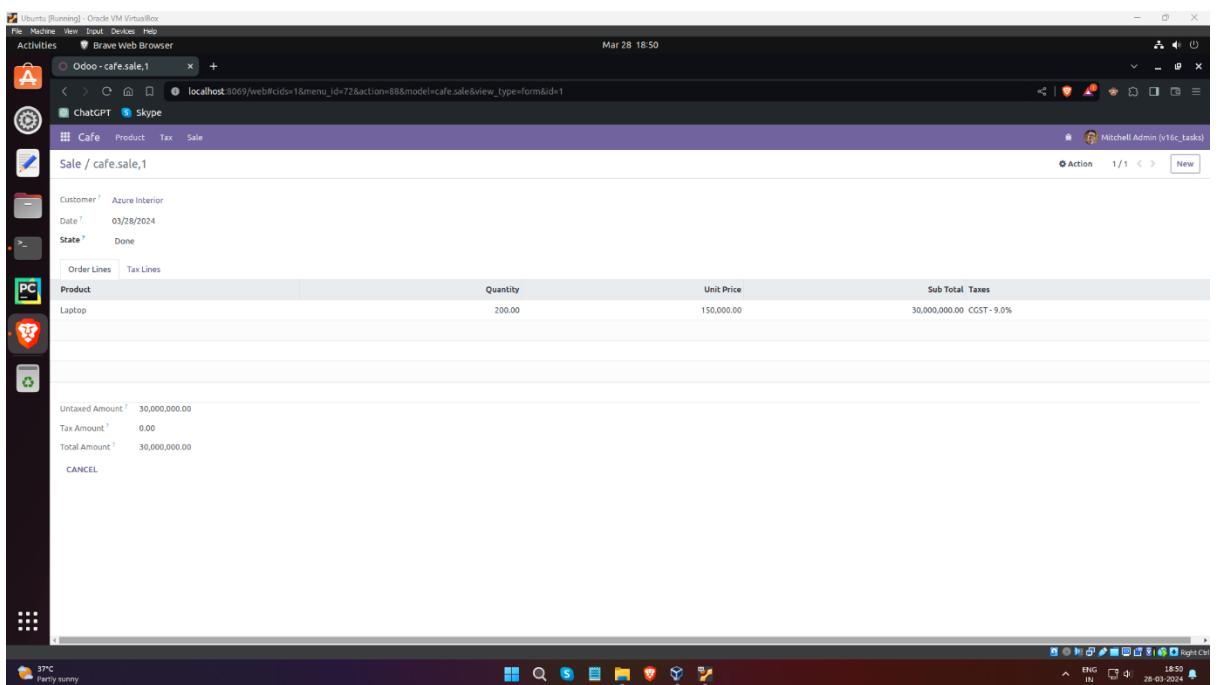
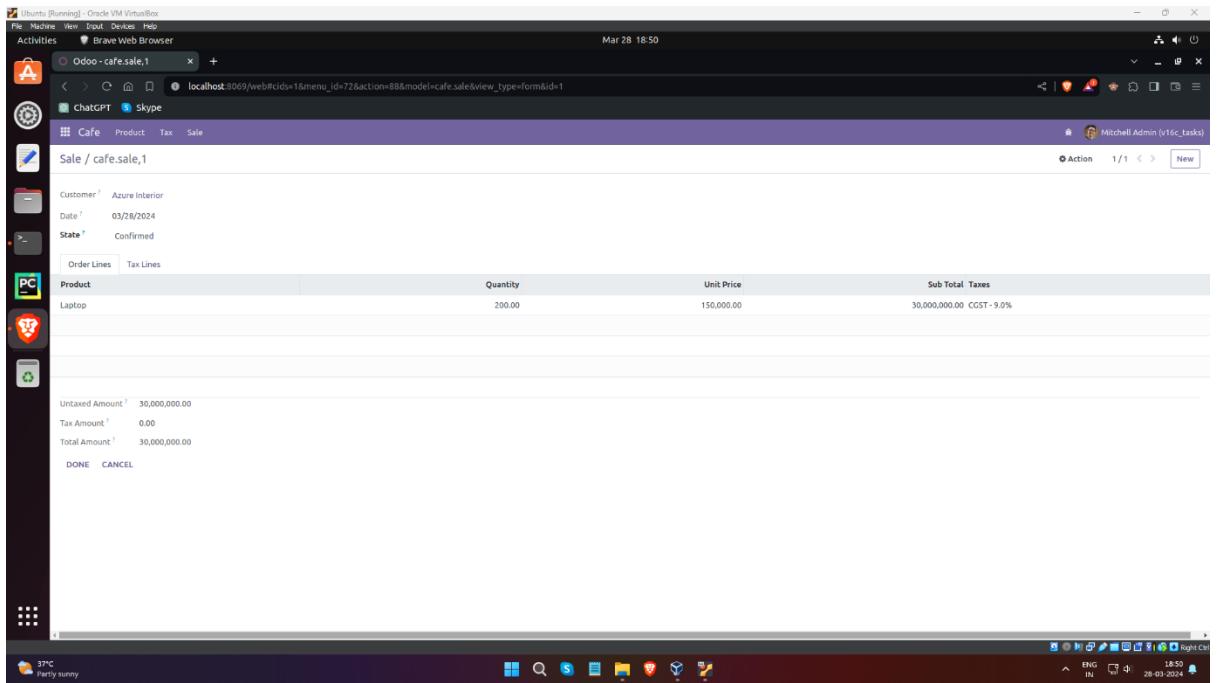
Product Name	Product Code	Product Image	Cost Price	Sale Price	Gross Profit Margin
Laptop	1	4.58 Kb	75,000.00	150,000.00	75,000.00

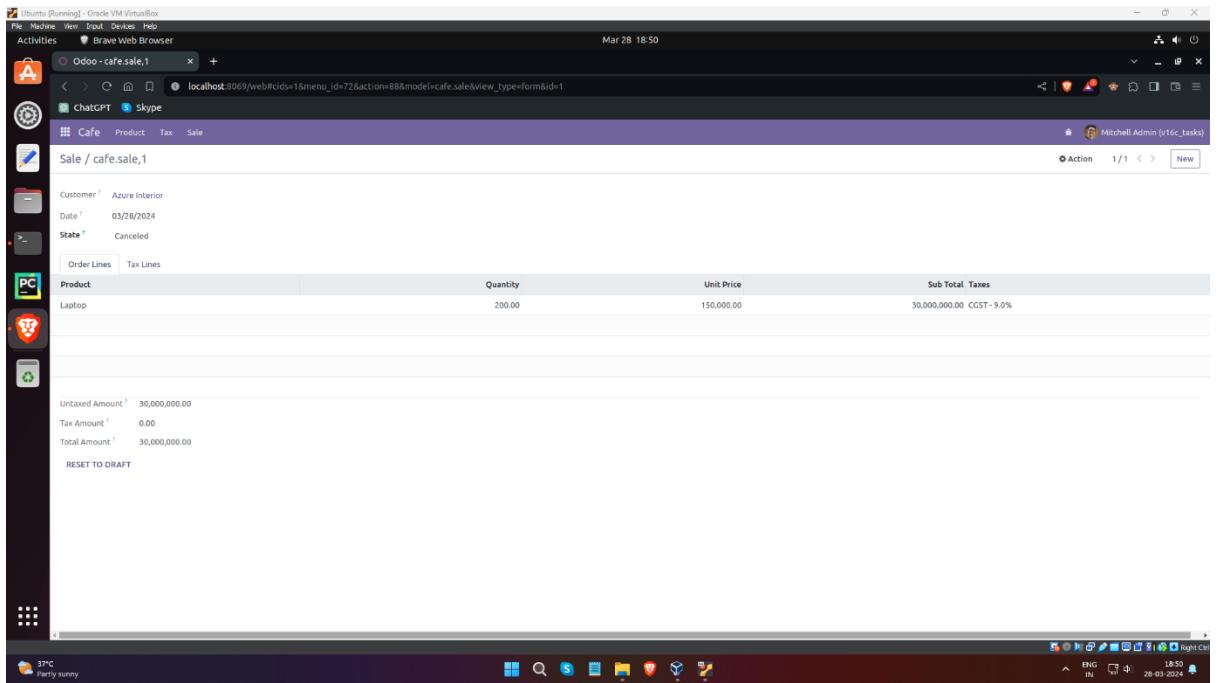
Tax / New

Tax Name ?	Central Goods and Service Tax.	Tax Code ?	CGST
Percentage ?	9.00		









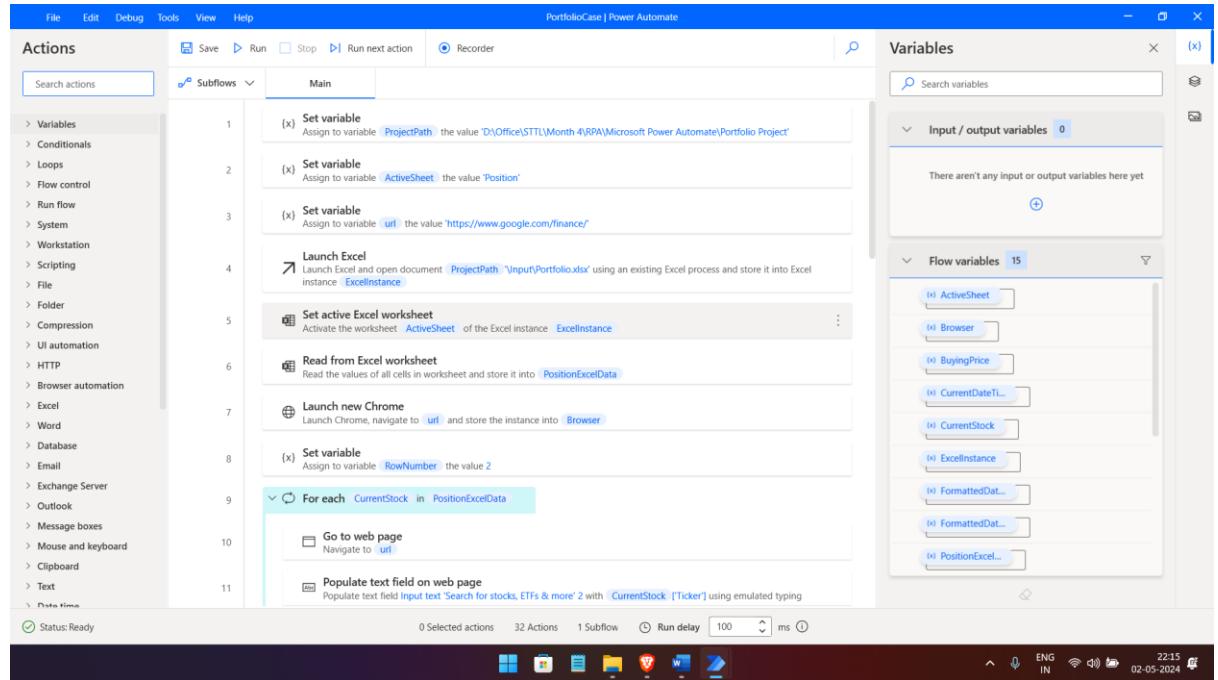
## **WEEK 12**

- Worked on tasks on RPA all the tasks are on below link.
- Link :<https://github.com/jinshah0322/STTL/tree/main/Month%203/RPA>
- RPA :<https://community.cloud.automationanywhere.digital/#/home>

## WEEK 13

- Got selected in Robotic process automation team(RPA) and started learning Power automate desktop.
- Started with PortfolioCase project where the task was to open the excel and search the stock price for given Ticker based on that calculate the total cost, market value and profit/loss.
- After the details has been calculated save it to another excel file based on current date.
- After that task were given to extract invoice details from the pdf and save it to excel file.
- Along with it explored other actions related to string, OCR(Optical Character Recognition), error handling, excel related actions, etc.

### ProtfolioCase:



File Edit Debug Tools View Help PortfolioCase | Power Automate

**Actions**

- > Variables
- > Conditionals
- > Loops
- > Flow control
- > Run flow
- > System
- > Workstation
- > Scripting
- > File
- > Folder
- > Compression
- > UI automation
- > HTTP
- > Browser automation
- > Excel
- > Word
- > Database
- > Email
- > Exchange Server
- > Outlook
- > Message boxes
- > Mouse and keyboard
- > Clipboard
- > Text
- > Data time

Search actions

**Main**

- Send keys
- Wait 2 seconds
- Extract data from web page
- Get substring of `StockPrice` starting at character 1 and store it into `StockPrice`
- Write to Excel worksheet
- Region Excel Calculations
  - Convert text to number
  - Convert text `CurrentStock` [Buying Price] to number and store it into `BuyingPrice`
  - Convert text to number
  - Convert text `StockPrice` to number and store it into `StockPrice`
  - Convert text to number
  - Convert text `CurrentStock` [Quantity] to number and store it into `Quantity`
  - Write to Excel worksheet
  - Write the value `BuyingPrice` \* `Quantity` into cell in column 'F' and row `RowNumber` of the Excel instance `ExcelInstance`
  - Write to Excel worksheet
  - Write the value `StockPrice` \* `Quantity` into cell in column 'G' and row `RowNumber` of the Excel instance `ExcelInstance`

0 Selected actions 32 Actions 1 Subflow Run delay 100 ms

Variables

Input / output variables 0

There aren't any input or output variables here yet

Flow variables 15

- (x) ActiveSheet
- (x) Browser
- (x) BuyingPrice
- (x) CurrentDateTime
- (x) CurrentStock
- (x) ExcelInstance
- (x) FormattedDate
- (x) FormattedDateForEmail
- (x) PositionExcel

Status: Ready

ENG IN 22:16 02-05-2024

File Edit Debug Tools View Help PortfolioCase | Power Automate

**Actions**

- > Variables
- > Conditionals
- > Loops
- > Flow control
- > Run flow
- > System
- > Workstation
- > Scripting
- > File
- > Folder
- > Compression
- > UI automation
- > HTTP
- > Browser automation
- > Excel
- > Word
- > Database
- > Email
- > Exchange Server
- > Outlook
- > Message boxes
- > Mouse and keyboard
- > Clipboard
- > Text
- > Data time

Search actions

**Main**

- Write to Excel worksheet
- End region
- Increase variable `RowNumber` by 1
- End
- Close web browser
- Get current date and time
- Convert datetime to text
- Set variable
- Close Excel
- Convert datetime to text

0 Selected actions 32 Actions 1 Subflow Run delay 100 ms

Variables

Input / output variables 0

There aren't any input or output variables here yet

Flow variables 15

- (x) ActiveSheet
- (x) Browser
- (x) BuyingPrice
- (x) CurrentDateTime
- (x) CurrentStock
- (x) ExcelInstance
- (x) FormattedDate
- (x) FormattedDateForEmail
- (x) PositionExcel

Status: Ready

ENG IN 22:16 02-05-2024

## Invoice Extraction:

**Power Automate Flow Details:**

**Main Flow Actions:**

- Terminate process
- Region Initialization
  - Set variable ProjectPath to value 'D:\Office\STL\Month 4\RPA\Microsoft Power Automate\08-04-2024'
  - Set variable RowNumber to value 0
- Launch Excel and open document ProjectPath '\Output\Invoice Data\_amcor.xlsx' using an existing Excel process and store it into Excel instance ExcellInstance
- End region
- Get files in folder Retrieve the files in folder ProjectPath '\Input\PDF Remit files\amcor\' that match '\*' and store them into Files
- For each File in Files
  - Region Pdf Extraction
    - Extract text from PDF Extract text from PDF File into ExtractedPDFText
    - Parse text Parse text ExtractedPDFText for regular expression '(?<=Document Date Your Account With Us\r\n)+\d{4}' starting at position 0 and find the first occurrence only. Store the match found into Document

**Variables:**

- Input / output variables: 0
- Flow variables: 15
  - CurrentRow: 6 columns (Invoice Data)
  - Date: Jan 15, 2024
  - Document: 2000201079
  - ExcellInstance: Excel instance
  - ExtractedPDFText: PDF table #1 in parameter
  - ExtractedPDFText: FRM076Rev002C0...
  - File: D:\Office\STL\Month 4\RPA\Microsoft Power Automate\08-04-2024\Invoice Data\_amcor.xlsx
  - Files: [-]
  - FirstFreeRow: 535

**Power Automate Flow Details:**

**Main Flow Actions:**

- Extract tables from PDF Extract tables from PDF File into ExtractedPDFTables
- End region
- Region Excel Operation
  - For each CurrentRow in ExtractedPDFTables [1]DataTable
    - Split text Split text CurrentRow by separating text elements with delimiter Space x 1 and store them into list TextList
    - If TextList [0] = 'Total' then
      - Exit loop
    - End
    - Append line to text Append TextList [2] to text TextList [1] and store it into HalfDate
    - Append line to text Append TextList [3] to text HalfDate and store it into Date
    - Convert datetime to text Convert datetime Date to text using format 'dd-MM-yyyy' and store it into FormattedDateTime
    - Get first free column/row from Excel worksheet Get the first free row in the active worksheet of the Excel document whose instance is stored into ExcellInstance and store it into FirstFreeRow

**Variables:**

- Input / output variables: 0
- Flow variables: 15
  - CurrentRow: 6 columns (Invoice Data)
  - Date: Jan 15, 2024
  - Document: 2000201079
  - ExcellInstance: Excel instance
  - ExtractedPDFText: PDF table #1 in parameter
  - ExtractedPDFText: FRM076Rev002C0...
  - File: D:\Office\STL\Month 4\RPA\Microsoft Power Automate\08-04-2024\Invoice Data\_amcor.xlsx
  - Files: [-]
  - FirstFreeRow: 535

File Edit Debug Tools View Help 08-04-2024\_InvoiceDataExtraction\_amcor | Power Automate

**Actions**

- > Variables
- > Conditionals
- > Loops
- > Flow control
- > Run flow
- > System
- > Workstation
- > Scripting
- > File
- > Folder
- > Compression
- > UI automation
- > HTTP
- > Browser automation
- > Excel
- > Word
- > Database
- > Email
- > Exchange Server
- > Outlook
- > Message boxes
- > Mouse and keyboard
- > Clipboard
- > Text
- > Date/time

Save Run Stop Run next action Recorder

**Main**

21 Append line to text  
Append **TextList [3]** to text **HalfDate** and store it into **Date**.

22 Convert datetime to text  
Convert datetime **Date** to text using format **'dd-MM-yyyy'** and store it into **FormattedDateTime**.

23 Get first free column/row from Excel worksheet  
Get the first free row in the active worksheet of the Excel document whose instance is stored into **ExcelInstance** and store it into **FirstFreeRow**.

24 Crop text  
Get text before the specified flag **:** from text **TextList [0]** and store it into **InvoiceNumber**.

25 Write to Excel worksheet  
Write the value **[IDocument, InvoiceNumber, FormattedDateTime, TextList[7]]** into cell in column **'A'** and row **FirstFreeRow** of the Excel instance **ExcelInstance**.

26 End

27 End region

28 End

29 Region End

30 Close Excel  
Save the Excel document and close the Excel instance **ExcelInstance**.

31 End region

Variables

Search variables

Input / output variables 0  
There aren't any input or output variables here yet

Flow variables 15

- (x) CurrentRow 6 columns | Invoice...
- (x) Date Jan 15, 2024,
- (v) Document 2000201079
- (x) ExcelInstance Excel instance
- (x) ExtractedPDF... [PDF table #1 in pa...
- (v) ExtractedPDF... FRM076Rev002CO...
- (x) File D:\Office\STL\Mo...
- (x) Files [-]
- (x) FirstFreeRow 535

Status: Ready 1 Selected action 31 Actions 1 Subflow Run delay 100 ms 22:25 ENG IN 02-05-2024

## WEEK 14

- Assigned with Inhouse project in which I was supposed to scan the monthly payment report for the employees of the company working offsite.
- For solving this problem I started on working on with Power automate desktop but later realised that the pdf supplied by the company were in different format so it became impossible to scan them all with one bot.
- Did research and development to find different approaches to solve the problem, later found out that there is AI builder which provide AI model to scan such documents.
- I trained the model with different collection of documents using Extract information from documents model available in AI Builder.

The screenshot shows the Power Apps | AI Builder interface. On the left, there's a sidebar with options like Home, Create, Learn, Apps, Tables, Flows, Solutions, AI hub, and AI models. The main area is titled 'AI models' and shows a grid of models. One model, 'Document processing' (Extract custom information from documents), is highlighted with a red box. Below the grid, there's a table titled 'My models' showing two entries: 'MPRModel' and 'Document Processing 18/4/2024, 6:04:37 pm'. At the bottom, there's a search bar for 'Search AI models'.

This screenshot shows the 'Extract custom information from documents' page. It features a preview of a delivery order form on the left and a detailed view of the extracted data on the right. The extracted data includes:

- Name:** Audrey Dumoulin
- Delivery order number:** 6011925
- Address:** 12 Bahnhofstrasse, 81117 Zurich
- Date:** 09/28/2021
- Phone:** 555-0199
- Priority shipping:** Priority shipping

At the bottom right, there are buttons for 'View documentation' and a red-bordered button labeled 'Create custom model'.

MPRModel | Save and close

- Choose document type
  - General documents
- Choose information to extract
  - 11 fields, 1 table
- Add collections of documents
  - 2 collections
- Tag documents
  - 21 documents tagged
- Model summary

Changing document type to Invoices is not possible. To use the invoices type, please create a new document processing model.

### Select the type of documents your model will process

Previously known as Unstructured, this option is ideal for any kind of documents especially when there is no set structure or when the format is complex. You can teach this model to extract data from structured or unstructured documents that have different layouts. This model is powerful but has long training time.

Here you can see some examples of general documents:

**RENTAL AGREEMENT**  
This rental agreement made on 01 July, 2022, between Gondwana Blue Properties (hereinafter called "TENANT"), and Quincy Waters (hereinafter called "LANDLORD"), at address is below:  
5. LANDLORD TERM ACT: This Rental Agreement is governed by Residential Landlord and Tenant Act.  
6. LOCATION: The Landlord hereby rents to the Tenant and the Tenant hereby rents from the Landlord a portion of the building located at 123 Main Street, Apartment 401, in the City of New York, NY, described as follows: 3 bedroom apartment with spacious main bedroom and a second bedroom.  
7. TERM: The term of this rental agreement begins on 01/01/2023 and ends on 31/12/2023. Tenant agrees to renew the tenancy of this Rental Agreement, or any extension thereof, on the same terms and conditions, provided that the Landlord has given written notice to Tenant at least 3 months prior to the end of the term.  
8. RENTAL APPLICATION: The Tenant acknowledges that the Landlord has relied upon the rental application, a copy of which is attached hereto, as a cornerstone for entering into this agreement, and that the Landlord has relied upon the representations contained therein. The Tenant further acknowledges that if any facts stated in the rental application prove to be untrue, the Landlord shall have the right to terminate this rental agreement without cause. The Landlord shall not be liable for damages resulting from the termination of this rental agreement.  
9. SECURITY DEPOSIT: Tenant agrees to deposit a security deposit of \$1,250 per month payable in advance, on or before the first day of every month during and subject to Tenant's Standard Occupancy Fee under Tenant's lease.

**Work Order No. 123456**  
Project Name: Project Alpha  
Customer: John Doe  
Description: Repair Kitchen Sink  
Status: Pending  
Priority: High  
Due Date: 2023-07-15  
Last Update: 2023-07-05 10:00:00  
Comments: None

**Next**

MPRModel | Save and close

- Choose document type
  - General documents
- Choose information to extract
  - 11 fields, 1 table
- Add collections of documents
  - 2 collections
- Tag documents
  - 21 documents tagged
- Model summary

### Choose information to extract

List all pieces of information that you want the AI model to extract from your documents. For example: Name, Address, Total amount, Line items... You'll tag them in the documents.

**+ Add**

Name	Type
DepartmentName	Text field
ProjectNo	Text field
ProjectName	Text field
WorkOrderNo	Text field
WorkOrderDuration	Text field
Month	Text field
ContractNo	Text field
ContractGeneratedDate	Text field
Customer	Text field
txtPerformance	Text field

**Back** **Next**

**Quick tips**

**What information do I need to enter?**  
List all pieces of information that you want the AI model to extract from your documents. For example: Name, Address, Total amount.

**What are number and date fields?**  
Up to now, all the fields in your model were extracted as text. We have now introduced a new feature that allows you to extract your fields in the format of your choice. [Learn more](#)

**Get help or send feedback**  
Get the answers you need, or tell us about your experiences. [Get help](#)

## Add

X

 Text field

 Number field

 Date field

 Checkbox

 Table

Recipient's / Lender's <b>Contoso, Ltd.</b> 4567 Main St. Buffalo, NY 90852		Mortgage Statement	
1 Mortgage interest \$ 13,345.34	2 Outstanding mortgage \$ 764,321.33	3 Mortgage origination date 10/08/2019	
4 Refund of overpaid \$ 15.01	5 Mortgage insurance \$ 1,222.05	6 Address	
Payer's/Borrower's name <b>Helena Wilcox</b>		1025 Fifth St. Sunnyvale, CA 27673	
Street address <b>123 Main St Apt. 10</b>			
City or town, state or province, country, and ZIP or foreign postal code <b>Brooklyn, NY 90852</b>			
8 Number of properties securing the mortgage 2		9 Other	

### Overview

Use this to extract printed or handwritten text from your documents. For example: Name, Address, Phone number.

Next

Cancel



## Text field

X

Define the field you want the AI model to extract. A meaningful name will improve the accuracy of your model. [Learn more](#)

Name \*

Enter text field name

Done

Cancel

**Table**

Give your table a name and define the columns you want the AI model to extract. All columns have a text data type by default, click on each column name to edit it.

Records

IsOfS...	ProjectMa...	Performan...	Qty	TotalDays	ServiceId...	<a href="#">+</a>

**Add column**

Name: Sign

Type: Text

Add Cancel

Save Cancel

Pencil MPRModel | Save and close

### Add collections of documents

Add sample documents for your model to study. Put similar documents into the same collection.

Create a collection for each similar documents i

New collection

Add documents i



Collection 2

5 documents



Collection 1

16 documents

Quick tips

Lightbulb What is a collection?

A collection is a group of documents sharing similar layouts and wording. Thanks to collections, you can create a unique AI model that will extract the same information from various documents.

Lightbulb Improve the performance of your model

You must add at least 5 examples of each document type. Adding up to 20 examples could yield better results.

Lightbulb Get help or send feedback

Get the answers you need, or tell us about your experiences.

Get help

Back Next

Choose document type  
General documents

Choose information to extract  
11 fields, 1 table

Add collections of documents  
2 collections

Tag documents  
21 documents tagged

Model summary

### Add collections of documents

Add sample documents for your model to study. Put similar documents into the same collection.

Create a collection for each similar documents *(i)*

[New collection](#)

Add documents *(i)*

**Collection 2**  
5 documents

**Collection 1**  
16 documents

[Back](#) [Next](#)

**16 documents**

[+ Add documents](#) [List](#)

Name	Created date	File size
MPR_2307708.pdf	Apr 25, 2024	260.8 kB
MPR_202311278.pdf	Apr 25, 2024	463.7 kB
MPR_M2304394.pdf	Apr 25, 2024	326.5 kB
MPR_M2306554.pdf	Apr 25, 2024	340.3 kB
MPR_M2307899.pdf	Apr 25, 2024	1.4 MB
20240408_160105.jpg	May 1, 2024	1.7 MB
3. Mr. Sanjeev Sharma_March 2023.pdf	May 1, 2024	179.3 kB
3 SilverTouch-March2024 MPR0001.pdf	May 1, 2024	541.6 kB
MONTHLY PERFORMANCE REPORT MAR...	May 1, 2024	182.5 kB
March 2024 111.pdf	May 1, 2024	79.6 kB
devipriya-mpr-mar2024.pdf	May 1, 2024	2.6 MB
Monthly Performance Report March 202...	May 1, 2024	561.1 kB
MPR for the month of Mar 2024.pdf	May 1, 2024	337.1 kB
MPR Mar 2024.pdf	May 1, 2024	367.3 kB

[Cancel](#)

## Upload documents

These documents will be used to train your model.

<input checked="" type="checkbox"/>		Name	Size	Status
<input checked="" type="checkbox"/>		mprDocument.pdf	114.6 KB	

[Upload 1 document](#)

[Cancel](#)

Choose document type  
General documents

Choose information to extract  
11 fields, 1 table

Add collections of documents  
2 collections

Tag documents  
22 documents tagged

Model summary

Show detected words

MPRModel | Quick tips | Save and close

Collection 1

Document 17 of 17

ProjectNo, ProjectName, WorkOrderNo, WorkOrderDuration, Month, MonthYear, DepartmentName, ProjectNo, ProjectName, WorkOrderNo, WorkOrderDuration, Month, MonthYear

Monthly Performance Report

Department Name: Project No: Project Name: Work Order No: Work Order Duration: Month (Month & Year):

Employee Code	Name	Designation	Date of Birth	Reporting Period	Total No. of days Absent	Status on Last day of month	Causal Leave	Sign
1. 000423	Praveen Kumar	Sr. Software Developer, 1 year experience	10-10-2001	01-09-2024 / 31-09-2024	0	26-09-2024, 27-09-2024, 28-09-2024	NA	
2. 000422	Kamaldeep Singh	Software Developer, 1 year experience	16-10-2002	01-09-2024 / 31-09-2024	0	01-09-2024	NA	
3. 000421	Rajesh Kumar	Software Developer, 1 year experience	12-12-2003	01-09-2024 / 31-09-2024	0	NA	NA	
4. 000420	Vikash Kumar	Software Developer, 1 year experience	13-12-2003	01-09-2024 / 31-09-2024	0	NA	NA	

Back Next

Choose document type  
General documents

Choose information to extract  
11 fields, 1 table

Add collections of documents  
2 collections

Tag documents  
22 documents tagged

Model summary

Some information you choose to extract isn't tagged in any document. You may train this model, but untagged information won't be extracted.

Some information you choose to extract needs your attention. You may train this model, but some information might not be extracted correctly.

### Model summary

Review your model's details below. If something is missing you can go back to the previous steps. If everything looks good, select Train. Learn more about training: [Learn more about training](#)

Owner	Model type	Document type	Collections
Power A9	Document Processing	General documents	2

Document sources

My device

Information to extract

Name	Examples
DepartmentName	21
ProjectNo	22
ProjectName	16
WorkOrderNo	22
WorkOrderDuration	16

Back Train

Saved | MPRModel | Save and close

Quick tips

Missing something? This page shows you a summary of what will be used to train your model. If you want to add more collections or more documents, you can go back to the previous steps to do so.

What is training? Training prepares your model to be used, based on the information you provided.

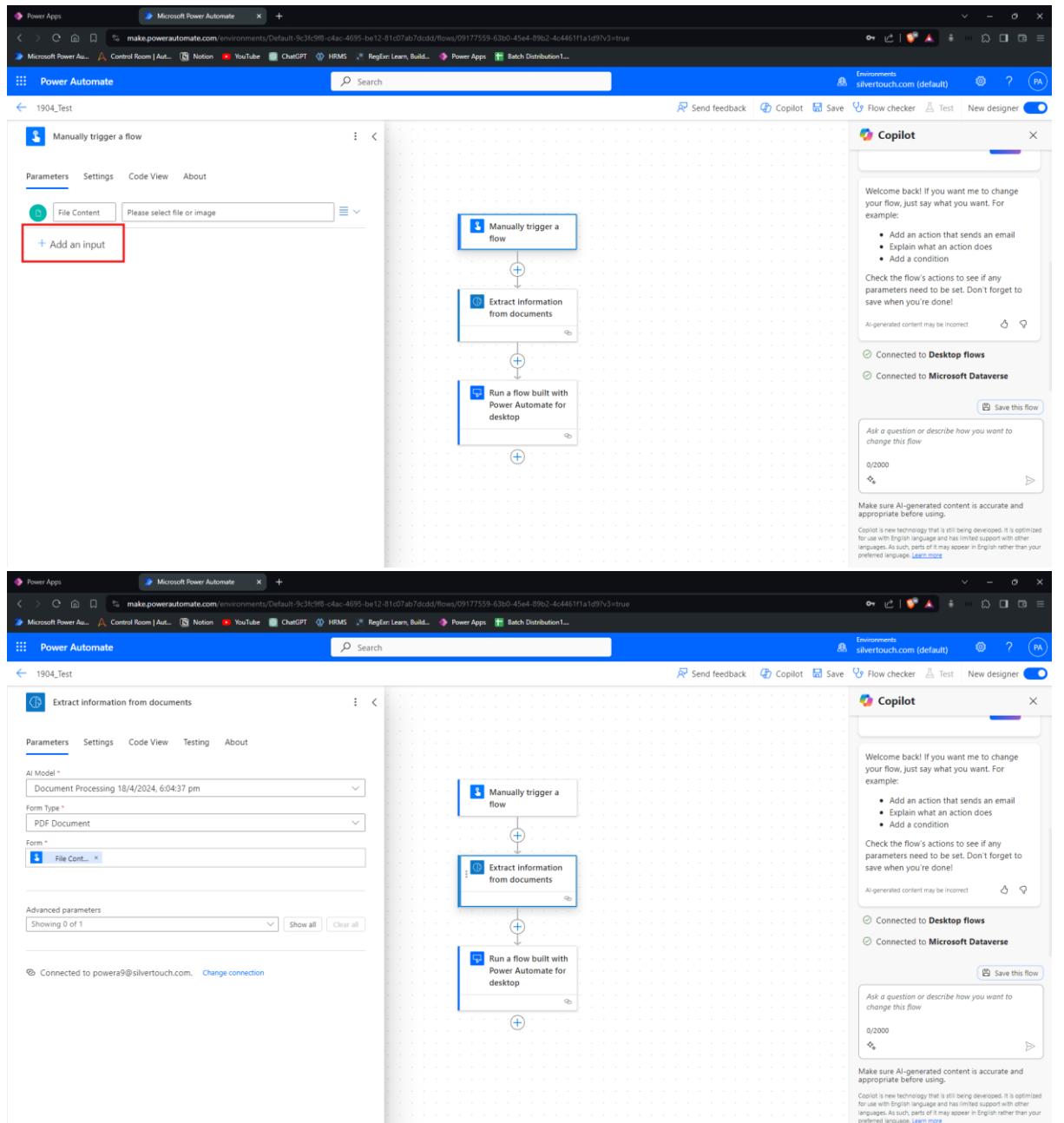
What's next? Once trained, you will be able to publish your model for use in your flows and apps.

Get help or send feedback Get the answers you need, or tell us about your experiences.

Get help

## WEEK 15

- Run flow from cloud and complete all operations in Desktop
  - The flow starts from Power automate cloud in which **manual trigger** is present which start the flow when user uploads the file.
  - The file is passed to **AI model(Extract Information from document)** which extracts the values from the file and passes to the desktop flow
  - Run a flow built with power automate for desktop** is the action which passes the extracted fields to desktop flow
  - In desktop flow the there is action **display custom form** which displays the extracted values in form and when submit button is clicked it stores the values to database and excel.



**Power Automate**

Run a flow built with Power Automate for desktop

Parameters Settings Code View Testing About

Desktop Flow \* RunFlowFromCloud Edit

Run Mode \* Attended (runs when you're signed in)

FilePath \* File Cont... X

Advanced parameters Showing 4 of 5 Show all Clear all

DepartmentName Text Department... X

WONumber Text WONum... X

ProjectName Text ProjectN... X

ProjectNumber Text ProjectN... X

Connected to DesktopConn. Change connection

Manually trigger a flow

Extract information from documents

Run a flow built with Power Automate for desktop

Copilot

Welcome back! If you want me to change your flow, just say what you want. For example:

- Add an action that sends an email
- Explain what an action does
- Add a condition

Check the flow's actions to see if any parameters need to be set. Don't forget to save when you're done!

AI-generated content may be incorrect

Connected to Desktop flows

Connected to Microsoft Dataverse

Ask a question or describe how you want to change this flow

0/2000 Save this flow

Make sure AI-generated content is accurate and appropriate before using.

Copilot is new technology that is still being developed. It is optimized for use with English language and has limited support with other languages. As such, responses may appear in English rather than your preferred language. [Learn more](#)

File Edit Debug Tools View Help

RunFlowFromCloud | Power Automate

Actions

Subflows Main

1 Region Initialization

(x) Set variable Assign to variable CounterVariable the value 0

(x) End region

2 Region Form

(x) Display custom form Display custom form and store user data in CustomFormData and button pressed into ButtonPressed

(x) End region

3 If ButtonPressed = Save then

(x) If CustomFormData [ProjectNumber] is empty then

(x) Set variable Assign to variable CounterVariable the value CounterVariable + 1

(x) Else if CustomFormData [ProjectName] is empty then

(x) Set variable Assign to variable CounterVariable the value CounterVariable + 1

(x) Else if CustomFormData [WONumber] is empty then

(x) Set variable Assign to variable CounterVariable the value CounterVariable + 1

(x) Else if CustomFormData [DepartmentName] is empty then

(x) Set variable Assign to variable CounterVariable the value CounterVariable + 1

(x) End

(x) If CounterVariable > 0 then

Variables

Input / output variables 5

DepartmentName <Blank>

FilePath

ProjectName <Blank>

ProjectNumber <Blank>

WONumber <Blank>

Flow variables 6

ButtonPressed

ButtonPressed2

CounterVariable

CustomFormData

ExcelInstance

FirstFreeRow

0 Selected actions 33 Actions 1 Subflow Run delay 100 ms

Status: Ready

```

graph TD
    A[Manually trigger a flow] --> B[Extract information from documents]
    B --> C[Run a flow built with Power Automate for desktop]
    
```

Run flowFromCloud | Power Automate

File Edit Debug Tools View Help

Save Run Stop Run next action Recorder Assets Library Search inside the flow

**Actions**

- Variables
- Conditionals
- Loops
- Run flow
- System
- Workstation
- Scripting
- File
- Folder
- Compression
- UI automation
- HTTP
- Browser automation
- Work queues
- Excel
- Word
- Database
- Email
- Exchange Server
- Outlook
- Message boxes
- Mouse and keyboard
- Clipboard
- Text
- Date time
- PDF
- CMD session
- Terminal emulation
- OCR
- Cryptography

Search actions

**Main**

Subflows

17 If CounterVariable > 0 then

18 Display message Not all records are present in the notification popup window with title Error and store the button pressed into ButtonPressed2

19 Send email Send email to jyothi0512@gmail.com with subject Error All required fields are not present

20 Else

21 Region Excel Insertion

22 Launch Excel Launch Excel and open document D:\Office\STTUMonth #RPA\house Task\Output\PdfExtractedData.xlsx using an existing Excel process and store it into Excel instance ExcelInstance

23 Get first free column/row from Excel worksheet Get the first free row in the active worksheet of the Excel document whose instance is stored into ExcelInstance and store it into FirstFreeRow

24 Write to Excel worksheet Write the value [[CustomFormData[ProjectNumber]], CustomFormData[DepartmentName], CustomFormData[WONumber]] into cell in column 'A' and row FirstFreeRow of the Excel instance ExcelInstance

25 Close Excel Save the Excel document and close the Excel instance ExcelInstance

26 End region

27 Region Sql Operation

28 Open SQL connection Open SQL connection [Provider=SQLNCLI11;Persist Security Info=True;User ID=jyothi0512;Password=jyothi@123;Initial Catalog=PDFExtractData Source=JWALOADTESTSQL2019]

29 Execute SQL statement Execute SQL statement INSERT INTO PDFData VALUES ([CustomFormData[ProjectNumber]], [CustomFormData[ProjectName]], [CustomFormData[DepartmentName]], [CustomFormData[WONumber]]) on SQLConnection and store the query result into QueryResult

30 Close SQL connection Close SQL connection SQLConnection

31 End region

Status Ready

0 Selected actions 33 Actions 1 Subflow Run delay 100 ms

**Variables**

Search variables

**Input / output variables**

- DepartmentName <Blank>
- FilePath
- ProjectName <Blank>
- ProjectNumber <Blank>
- WONumber <Blank>

**Flow variables**

- ButtonPressed
- ButtonPressed2
- CounterVariable
- CustomFormData...
- ExcelInstance
- FirstFreeRow

- Call cloud flow from desktop and further continue in Desktop
  - Loop through each file in folder and send the OneDrive file path to cloud flow using **Invoke web service action**
  - In cloud flow there is action **When HTTP request is received** which receives the file path now using this file path we can provide the file path to the AI model which will extract the desired fields.
  - Using **response** action we can send the extracted fields to desktop flow in can save all the details to SQL server.

Link: [Click here to open the video](#)

The screenshot displays two separate Power Automate interfaces. The top interface shows a desktop flow titled "CloudFromDesktop | Power Automate". This flow consists of the following steps:

- Set variable: Assign to variable: `ProjectPath` the value: `C:\Users\BAPS\Desktop\Unay Shah - STT\Month 4\BPA\Inhouse Task\Input\All`
- Get files in folder: Retrieve the files in folder `ProjectPath` that match "`*`" and store them into `Files`.
- For each `CurrentItem` in `Files`:  
Replace text: Replace text `C:\Users\BAPS\Desktop\Unay Shah - STT\Month 4\BPA\Inhouse Task\Input\All` with `PMV` in `CurrentItem` and store the result into `CurrentItem`.  
Display message: Display message `CurrentItem` in the notification popup window with title and store the button pressed into `ButtonPressed`.
- Invoke web service:  
Invoke web service page: `https://prod-06.centralus.logic.azure.com:443/workflows/efab08668-f1d3-40e5-a57a-bf0ac37ed497?api-version=2016-06-01&HttpMethod=POST&Headers=%7B%40headers%7D&Body=%7B%40body%7D&Http�Method=POST&Http�Body=%7B%40body%7D` and store the response headers into `WebServiceResponseHeaders` and the status code into `StatusCode`.
- Display message: Display message `WebServiceResponse` in the notification popup window with title "Web Service Response" and store the button pressed into `ButtonPressed2`.
- End

The Variables pane on the right lists the following variables:

- `ButtonPressed`: OK
- `ButtonPressed2`
- `CurrentItem`: `PA_2307708.pdf`
- `Files`: `[C:\Users\BAPS\Des...`
- `ProjectPath`: `C:\Users\BAPS\Des...`
- `StatusCode`: 200
- `WebServiceResponse`: `{"log": "Hello your fil...`
- `WebServiceResponseHeaders`: `[Pragma: no-cache; Content-Type: application/pdf]`

The bottom interface shows a logic app flow titled "CloudFromDesktop" in the Power Automate browser-based designer. It includes two main sections:

- When a HTTP request is received**: Set up to trigger on "Anyone" via "HTTP POST URL" `https://prod-06.centralus.logic.azure.com:443/workflows/efab08668-f1d3-40e5-a57a-bf0ac37ed497?api-version=2016-06-01&HttpMethod=POST&Headers=%7B%40headers%7D&Body=%7B%40body%7D&Http�Method=POST&Http�Body=%7B%40body%7D`. The Request Body JSON Schema is defined as:
 

```
{
        "type": "object",
        "properties": {
          "filename": {
            "type": "string"
          }
        }
      }
```
- Response**: Set up to return a Status Code of 200, Headers, and a Body containing the log message: `{"log": "Hello your file FileName was processed!"}`.

### Invoke web service

Invokes a web service and stores the response text [More info](#)

URL: [https://prod-06.centralindia.logic.azure.com:443/workflows/df35ba0ccb1a43e29b9b704b391d88c7/triggers/manual/paths/invoke?api-version=2016-06-01&sp=%2Ftriggers%2Fmanual%2Frun&sv=1.0&sig=8r91PHBTtaUKdtLTPd-hmLd\\_m94LwJv\\_2tuX8Xn0J0](https://prod-06.centralindia.logic.azure.com:443/workflows/df35ba0ccb1a43e29b9b704b391d88c7/triggers/manual/paths/invoke?api-version=2016-06-01&sp=%2Ftriggers%2Fmanual%2Frun&sv=1.0&sig=8r91PHBTtaUKdtLTPd-hmLd_m94LwJv_2tuX8Xn0J0)

Method: POST

Accept: application/json

Content type: application/json

Custom headers:

Request body: {"FileName": "%CurrentItem%"}

Save response: Get text into variable (for web pages)

> Advanced

> Variables produced [WebServiceResponseHeaders](#) [WebServiceResponse](#) [StatusCode](#)

On error [Save](#) [Cancel](#)

## WEEK 16

- Calling cloud flow automatically from power app
  - In power apps app is created which uses **form processor** using which we can send the pdf to AI model and get the extracted fields.
  - The extracted fields will be displayed in **text fields** and when user clicks the save button power app will call the cloud flow automatically.
  - Now cloud flow will pass the extracted fields to desktop flow.
  - In desktop flow the fields are saved to SQL server.

Link: [Click here to open the video](#)

The image contains two screenshots of Microsoft Power Apps and Power Automate interfaces, illustrating the integration process:

- Power Apps Screenshot:** Shows the "Power Apps | MPRApplication (Editing)" screen. It displays a "Tree view" on the left with items like "Screens", "Components", "App", "Screen1", and "PDFExtraction". The main area shows a form with fields: "Project Number", "Project Name", "Department Name", and "Work Order Number". Below the form are "Save" and "Reset" buttons. A "Form processor" icon is visible near the bottom left of the form area.
- Power Automate Screenshot:** Shows the "Power Automate" interface with the URL "make.powerautomate.com/environments/Default-9c3fc9fb-c4ac-4695-be12-01c07ab7dcdd/flows/5336752f-baba-4ec2-a029-02ca9772e17v3?false". The left sidebar includes "Home", "Create", "Templates", "Learn", "My flows" (selected), "Process mining", "AI hub", "Desktop flow activity", "Connections", and "More". The main area shows a "Power Apps (V2)" card with four input fields: "Project Number", "Project Name", "Department Name", and "Work Order Number". Below this is a "Run a flow built with Power Automate for desktop" card titled "2204\_PDFExtraction/Desktop". It lists "Run Mode" as "Attended (runs when you're signed in)", and "ProjectNumber", "ProjectName", "DepartmentName", and "WONumber" as inputs, each associated with a "Please enter your input" placeholder.

File Edit Debug Tools View Help

2014\_PDFExtraction\_Desktop | Power Automate

Actions

- Variables
- Conditionals
- Loops
- Run flow
- System
- Workstation
- Scripting
- File
- Folder
- Compression
- UI automation
- HTTP
- Browser automation
- Work queues
- Excel
- Word
- Database
- Email
- Exchange Server
- Outlook
- Message boxes
- Mouse and keyboard
- Clipboard
- Text
- Date time
- PDF
- CMD session
- Terminal emulation
- OCR
- Cryptography

Subflows

Main

1 Terminate process (Terminate all processes with name 'EXCEL')

2 Region Initialization

3 Launch Excel (Launch Excel and open document 'C:\Users\AAPS\Desktop\Jiney Shah - STT1\Month 4\JPPA\Unhouse Task\Output\PDFExtractedDetails.xlsx' using an existing Excel process and store it into Excel instance ExcelInstance)

4 Open SQL connection (Open SQL connection 'Provider=SQLNCLI11;Persist Security Info=True;User ID=sa;Password=ibm@#123;Initial Catalog=PDFExtract;Data Source=JAVALOADTEST\SQL2019;' and store it into SQLConnection)

5 End region

6 Region Functioning

7 Searching if the record with same ProjectNumber and WorkOrderNo already exists in database (Execute SQL statement 'SELECT COUNT(\*) FROM PDFData WHERE ProjectNo = @ProjectNumber AND WorkOrderNo = @WONumber') and store the query result into QueryResult2

8 If false then inserting it to database and excel (If QueryResult2 < 1 then)
 

- Region Excel Insertion
- Get first free column/row from Excel worksheet (Get the first free row in the active worksheet of the Excel document whose instance is stored into ExcelInstance and store it into FirstFreeRow)
- Write to Excel worksheet (Write the value [ProjectNumber, ProjectName, DepartmentName, WONumber] into cell in column 'A' and row FirstFreeRow of the Excel instance ExcelInstance)
- End region

9 Execute SQL statement (Execute SQL statement 'INSERT INTO PDFData VALUES (@ProjectNumber, @ProjectName, @DepartmentName, @WONumber)' on SQLConnection and store the query result into QueryResult1)

10 Status Ready

1 Selected action 24 Actions 1 Subflow Run delay 100 ms

Variables

Input / output variables

- DepartmentName <Blank>
- ProjectName <Blank>
- ProjectNumber <Blank>
- WONumber <Blank>

Flow variables

- ExcelInstance
- FirstFreeRow

## Open SQL connection

Open a new connection to a database [More info](#)

Connection string:

```
Provider=SQLNCLI11;Persist Security Info=True;User ID=sa;Password=ibm@#123;Initial Catalog=PDFExtract;Data Source=JAVALOADTEST\SQL2019;
```

Variables produced [SQLConnection](#)

On error

Save Cancel

## Write to Excel worksheet

Writes a value into a cell, a named cell or a range of cells of an Excel instance [More info](#)

Excel instance:

Value to write:

Write mode:

Column:

Row:

On error

Save

Cancel

The screenshot shows the Power Automate flow editor interface. The flow consists of the following steps:

- Step 10: If `QueryResult2` is "true" then
- Step 11: Region `Excel Insertion` (starts with a yellow border):
  - Step 12: Get first free column/row from Excel worksheet (Get the first free row in the active worksheet of the Excel document whose instance is stored into `ExcelInstance` and store it into `FirstFreeRow`)
  - Step 13: Write to Excel worksheet (Write the value `[ProjectNumber, ProjectName, DepartmentName, WONumber]` into cell in column 'A' and row `FirstFreeRow` of the Excel instance `ExcelInstance`)
  - Step 14: End region
- Step 15: Execute SQL statement (Execute SQL statement `INSERT INTO PDFData VALUES ('', '' , '' , '' , '')` on `SQLConnection` and store the query result into `QueryResult2`)
- Step 16: Display message (Display message 'Records Inserted Successfully' in the notification popup window with title 'Success' and store the button pressed into `ButtonPressed2`)
- Step 17: Else
- Step 18: Display message (Display message 'Record Already exists' in the notification popup window with title 'Alert' and store the button pressed into `ButtonPressed`)
- Step 19: End
- Step 20: End region
- Step 21: Region `End` (starts with a yellow border):
  - Step 22: Close Excel (Save the Excel document and close the Excel instance `ExcelInstance`)
  - Step 23: Close SQL connection (Close SQL connection `SQLConnection`)
  - Step 24: End region

Variables pane on the right shows:

- Input / output variables (4):
  - `DepartmentName` <Blank>
  - `ProjectName` <Blank>
  - `ProjectNumber` <Blank>
  - `WONumber` <Blank>
- Flow variables (2):
  - `ExcelInstance`
  - `FirstFreeRow`

## Execute SQL statement

Connect to a database and execute an SQL statement [More info](#)

Get connection by:  (i)

SQL connection:  (i)

SQL statement:

```
1 INSERT INTO PDFData VALUES ('%ProjectNumber%', '%ProjectName%', '%DepartmentName%', '%WONumber%')
```

Timeout:  (i)

> Variables produced

(i)

- Power apps

- In power apps app is created which uses **form processor** using which we can send the pdf to AI model and get the extracted fields.
- The extracted fields will be displayed in text fields and tabular data will be displayed in **vertical gallery** user can modify them as per need and when save is clicked the data will be saved to database
- There is view all records button on clicking it screen 2 will be displayed in which **data table** is used to display the table from SQL server for which the connection is done with the help of **On Premise Gateway**

Link: [Click here to open the video](#)

**Monthly Performance Report**

To:  
SAP Tech Technologies Limited  
123, Sector 45, P.O. & Bypass road, Panahpur Road, Delhi-110001, India

Department Name: CIS Division Ministry of Home Affairs

Project No.: C182099MPND

Project Name: CIS Division Cyber & Information Security

Work Order No.: M2306554

Work Order Date: 02/01/2024

Work Order Duration: 12 Month (from 01-10-2023 to 30-09-2024)

Month (Month & Year): March - 2024

This is to certify that below mentioned candidates have performed their duties satisfactorily.

Sr. No.	Emp. Code	Name	Designation	Place Posting	Date of Joining (DD/MM/YY)	Reporting Period	Total no. of days work done	Date of last work done	CL
1		Pawan Kumar Singh	Level 11 (Minimum work experience 5 years) Tier - 1A	North Block	01/10/2022	01/03/2024	31/09/2024	0	0 0
2		Manoj Kumar	Level 10 (Minimum work experience 5 years) Tier - 1A	North Block	01/10/2022	01/03/2024	31/09/2024	0	0 0
3		Amit Kalyan	Level 9 (Minimum work experience 3 years) Tier - 1A	North Block	01/10/2022	01/04/2024	31/09/2024	0	0 0
4		Inder Singh Rajawat	Level 8 (Minimum work experience 3 years) Tier - 1A	North Block	01/10/2022	01/03/2024	31/09/2024	0	0 0
5		Abhishek Rathore	Level 7 (Minimum work experience 3 years) Tier - 1A	North Block	01/10/2022	01/03/2024	31/09/2024	1	0 0
6		Neha	Level 6 (Minimum work experience 1 year) Tier - 1A	North Block	01/10/2022	01/03/2024	31/09/2024	0	0 0
7		Rajesh Ranjan	Level 5 (Minimum work experience 1 year) Tier - 1A	North Block	01/10/2022	01/03/2024	31/09/2024	0	0 0
8		Anuj Kumar	Level 4 (Minimum work experience 1 year) Tier - 1A	North Block	08/09/2023	01/03/2024	31/09/2024	0	0 0
9		Ritika Malhotra	Level 3 (Minimum work experience 1 year) Tier - 1A	North Block	03/09/2023	01/03/2024	31/09/2024	3	0 0
10		Sharma	Level 2 (Minimum work experience 1 year) Tier - 1A	North Block	03/10/2023	01/03/2024	31/09/2024	2	0 0
11		Hemant Singh	Level 1 (Minimum work experience 1 year) Tier - 1A	North Block	01/08/2023	01/03/2024	31/09/2024	0	0 0
12		Pawan Kumar	Level 0 (Minimum work experience 0 year) Tier - 1A	North Block	01/07/2023	01/03/2024	31/09/2024	0	0 0
13		Abhay Mishra	Level 1 (Minimum work experience 1 year) Tier - 1A	North Block	01/05/2023	01/03/2024	31/09/2024	0	0 0
14		Mukesh Kumar Yadav	Level 0 (Minimum work experience 0 year) Tier - 1A	North Block	12/12/2022	01/03/2024	31/09/2024	0	0 0

Note: *[Signature]*  
[Signature & Stamp Placeholder]

**Department Name:** CIS Division Ministry of Home Affairs

**Project Number:** C182099MPND **Month:** March - 2024

**Project Name:** CIS Division Cyber & Information Security

**Work Order Number:** M2306554 **Work Order Date:** 02/01/2024

**Work Order Duration:** 12 Month (from 01-10-2023 to 30-09-2024)

**Customer:**

**Contract Number:**

**Contract Generated Date:**

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9	Ru Hansen Master Trainer	Level 5 (Minimum work experience 1 year) Tier - 1A	North Block	01/06/2023	01/07/2023	31/07/2024	3	0	0
10	Shagufta Sharma	Level 5 (Minimum work experience 1 year) Tier - 1A	North Block	02/12/2023	01/01/2024	31/01/2024	2	0	0
11	Himmat Singh	Level 5 (Minimum work experience 1 year) Tier - 1A	North Block	03/04/2023	01/05/2024	31/05/2024	0	0	0
12	Pawana Kumar	Level 5 (Minimum work experience 1 year) Tier - 1A	North Block	04/07/2023	01/08/2024	31/08/2024	0	0	0
13	Ashley Mishra	Level 5 (Minimum work experience 1 year) Tier - 1A	North Block	05/06/2023	01/07/2024	31/07/2024	0	0	0
14	Melissa Kumar Yadav	Level 5 (Minimum work experience 1 year) Tier - 1A	North Block	10/12/2023	01/01/2024	31/01/2024	0	0	0

**Contract Number:**

**Contract Generated Date:**

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Sr No	Employee Code	Name	Designation	Place Posting	Date Of Joining	From
1		Pawan Kumar Singh	Level 11 (Minimum work experience 5 years)	North Block	01/10/2022	01/03/2024
2		Manoj Kumar	Level 11 (Minimum work experience 5 years)	North Block	01/10/2022	01/03/2024
3		Jiten Katiyar	Level 6 (Minimum work experience 1 year)	North Block	01/10/2022	01/03/2024
4		Ravi Singh Rajawat	Level 6 (Minimum work experience 1 year)	North Block	01/10/2022	01/03/2024
5		Abhishek Rathore	Level 6 (Minimum work experience 1 year)	North Block	01/10/2022	01/03/2024
6		Neelam	Level 6 (Minimum work experience 1 year)	North Block	01/10/2022	01/03/2024
7		Rajesh Ranjan	Level 6 (Minimum work experience 1 year)	North Block	01/10/2022	01/03/2024

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