

KL UNIVERSITY
COMPUTER ENGINEERING DEPARTMENT
PROJECT REPORT ON
REGISTRATION OF STUDENTS INTO
NASSCOM PRIME PORTAL

SUBMITTED BY:

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ABOUT BLUEPRISM



Blue Prism is intelligent automation - business-developed, no-code automation that pushes the boundaries of robotic process automation (RPA) to deliver value across any business process in a connected enterprise. A combination of RPA with expanded cognitive and AI capabilities, Blue Prism is different to other automation technology on the market. With one Blue Prism license, you gain instant access to an already AI equipped digital workforce, along with the tools you need to build and delegate automations.

Blue Prism RPA Features :

- Secure, scalable, and central management of a virtual workforce of software robots
- Complete automation solution that results in work distribution and queue management
- Blue prism has many robust features like load balancing, encryption, and audit. It also offers robots that are defined and managed centrally
- Blue Prism automation tool comes with various types of spying modes for different application types
- It has many improved features to configure Dashboards so that session information can be directed to external Analytics and monitoring systems

- The latest version 6 of blue prism provide support for [Microsoft Azure](#) and [Amazon AWS](#) cloud deployment patterns
- Exception stages can be set to save a screen capture. When it is used in the production environment, this feature can resolve resource processing issues in a secure manner
- You can automate Excel, XML, csv, pdf, image, etc.
- There is no need to write any code while working with the blue prism tool
- It can automate software developed in [Java](#), Mainframe, Web-based, Windows Applications

Benefits of using blue prism :

- It doesn't need IT skills to implement
- It can be easily implemented in the short time span of 4 to 6 weeks
- Provides the highest return of your ROI, tremendous payback with self-funding returns
- Automates the application's controls and fields, irrespective of their onscreen position to increase bot's speed
- Custom Digital Front- ends integrate front office agents and back-office automation to improve human-robot interactivity and productivity
- Robust and feature rich analytics suite.
- Double-byte character set support allows you to expand RPA to systems and processes that need double-byte such as Asian languages
- Multi-tiered Encryption Algorithms provides secure connectivity, data storage, and access
- Enterprise-wide Password Vaults with certified CyberArk Credential Management for consistent enterprise-wide credentials
- Custom Permissions feature allows user-specific access to robot groups, robots, processes for secure robotic automation process
- Improved Control Room to offer real-time feedback on robot status and allows you to get the complete insight into the digital workforce.
- Build highly efficient and automated end-to-end business processes

Main Components of Blue Prism:

- Process Studio
- Object Studio
- Application Modeller

Process Studio is an area where an actual process is created. It looks similar to a traditional flowchart. It allows business logic, control loops, variables, and object call to be sequenced and tested in a visible business flow. Each page in a process has its tab, and generally, the process defined in the Process Studio is similar to a flowchart.

Object Studio in Blue Prism is used for building different objects. Object studio is the place where we can create the Visual Business Object. It is abbreviated as VBO. VBO is created to interact with other applications. There are different types of actions that can be performed within these objects in the Object Studio.

Application modeller is used for spying the applications. Spying is identifying the elements in the Applications.

PROJECT INTRODUCTION

REGISTRATION OF STUDENTS TO NASSCOM PRIME PORTAL

Our project Main theme is to Register students into NASSCOM prime portal Website. To accomplish this, we are using RPA Blue Prism tool. In this project we need to make a bot to create an account for a student and it have to login to Gmail account to confirm the email address which is from FS Prime Portal. After that it should enter the personal details and educational details of a student. After that bot need to select the three learning interests of a student. And page will be redirected to the home page of NASSCOM. It should visit the about prime tab and select a course. To develop this, we have used the navigate and wait stage tools in object studio.

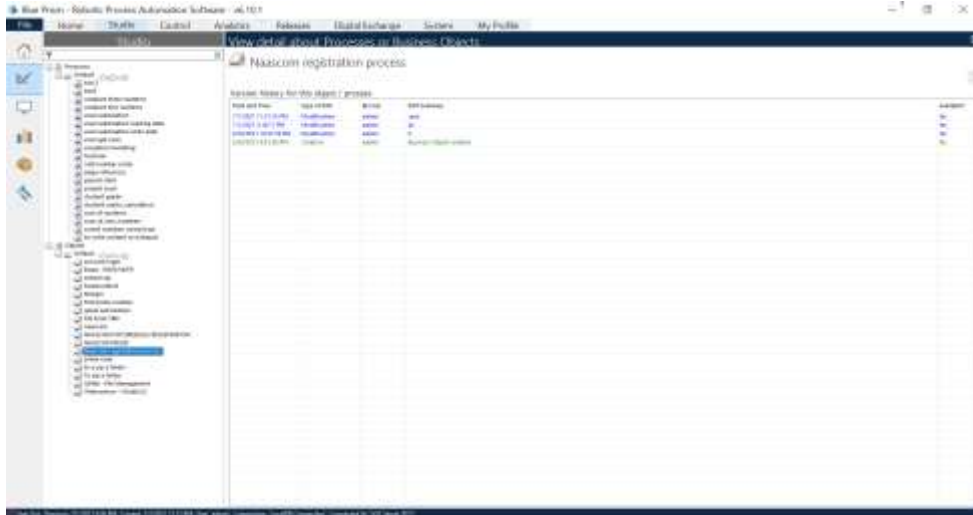
SAMPLE INPUTS

- Object Studio
- Application Modeller

BLUE PRISM PROCESS

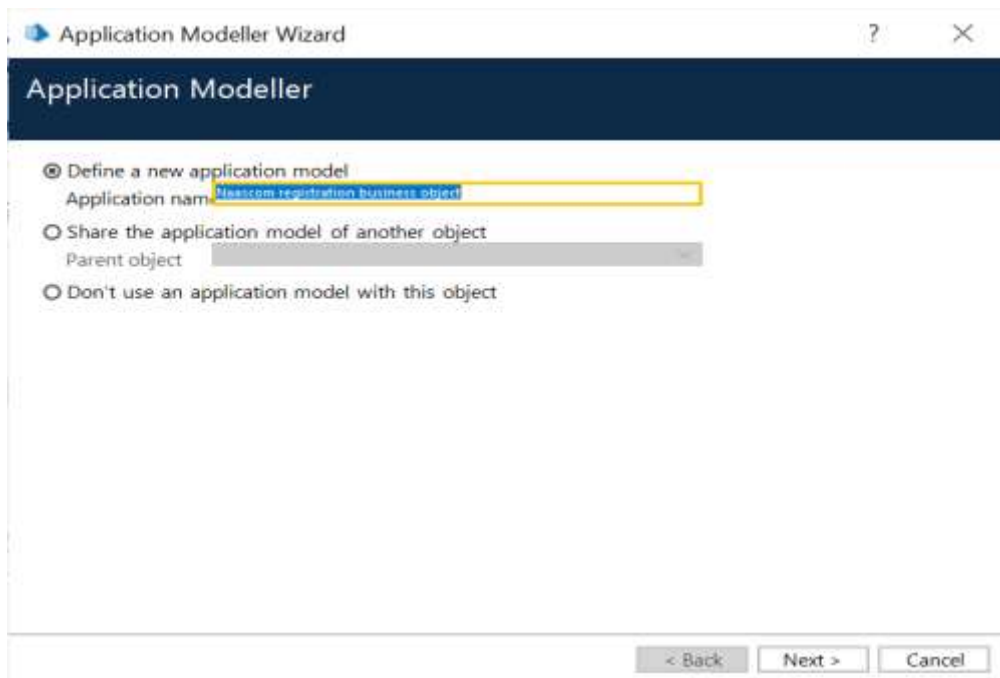
Step -1:

Firstly, we need to create an object in object studio.



Step -2:

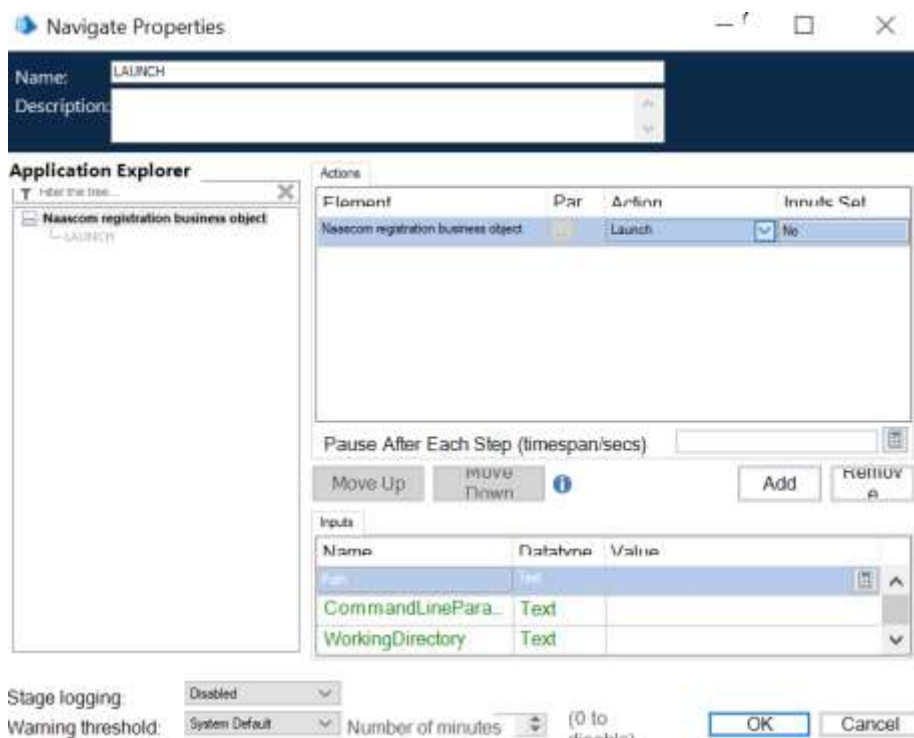
We need open the application modeller and set the instructions.





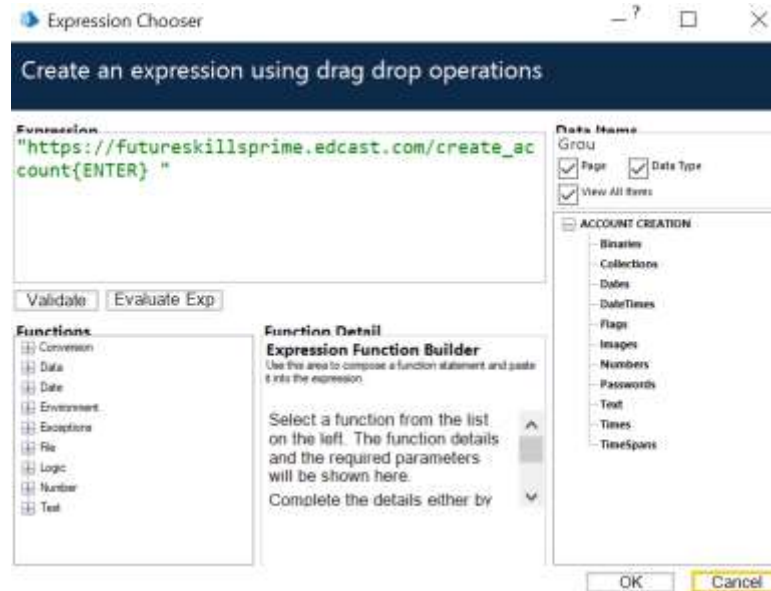
Step -3:

Open Action1 tab and start the process. To start this we need to launch the microsoft edge using Navigate option in object studio and we have to set the Navigate properties as shown below



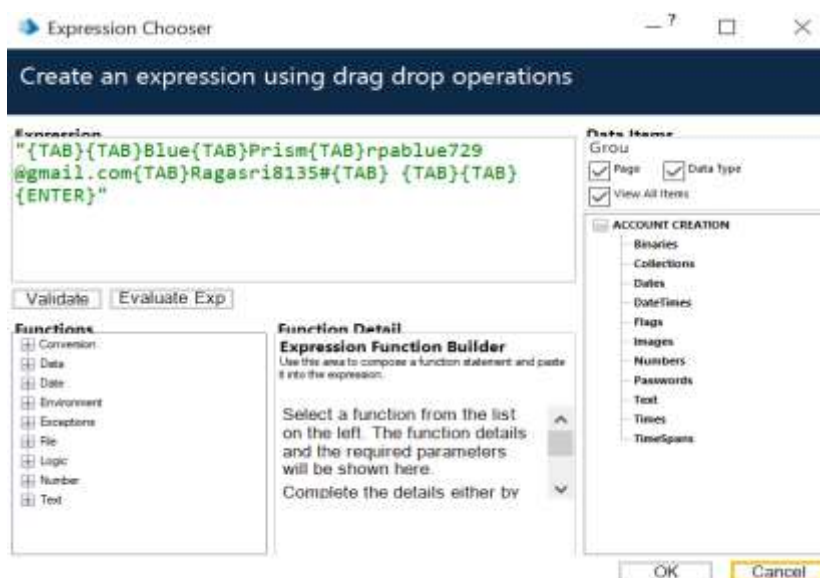
Step 4:

After Launching MS Edge bot need to visit the nasscom prime portal create account website. For this we are using the global send keys to enter the link in MS Edge. We have to set the Navigate properties as shown below



Step -5:

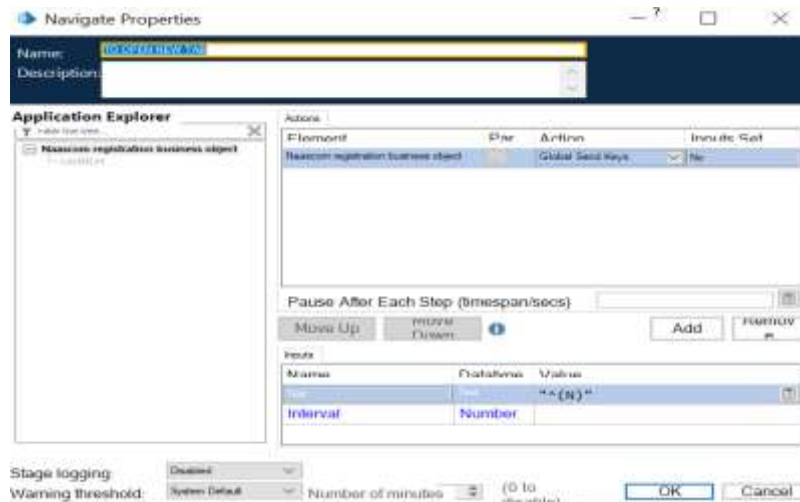
In that NASSCOM Prime portal website bot need to fill the credentials to create an account in it. For that we need to set the navigate properties as shown below



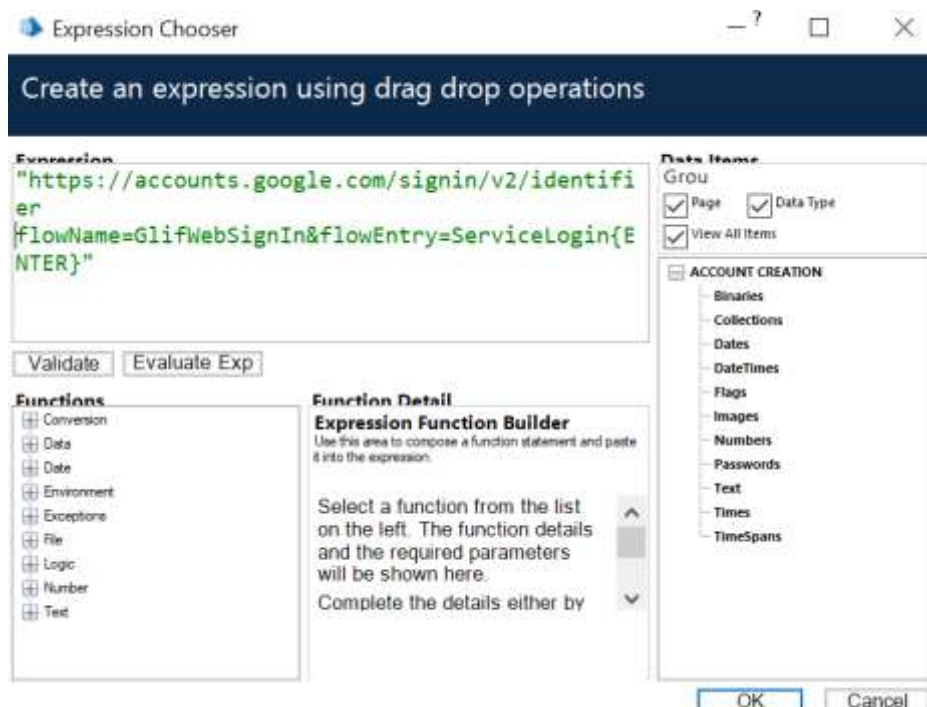
Step -6:

After creating account it will sent an conformation email and bot need to confirm the email . To do this bot need to open a new tab and sign into gmail and it should have to open the FS Prime portal Mail and confirm the email address. For that we need to set the navigate properties as shown below

TO OPEN NEW TAB:



TO ENTER GMAIL LOGIN LINK ADDRESS:



TO ENTER GMAIL:

Expression Chooser

Create an expression using drag drop operations

Expression
"rpablue729@gmail.com{TAB}{TAB}{TAB}{ENTER}"

Validate Evaluate Exp

Functions

- Conversion
- Data
- Date
- Environment
- Exceptions
- File
- Logic
- Number
- Text

Function Detail
Expression Function Builder
Use this area to compose a function statement and paste it into the expression.
Select a function from the list on the left. The function details and the required parameters will be shown here.
Complete the details either by

Data Items
Group
☒ Page ☒ Data Type
☒ View All Items
ACCOUNT CREATION

- Binaries
- Collections
- Dates
- DateTimes
- Flags
- Images
- Numbers
- Passwords
- Text
- Times
- TimeSpans

OK Cancel

TO ENTER THE PASSWORD:

Expression Chooser

Create an expression using drag drop operations

Expression
"Ragasri8135#{TAB}{TAB}{ENTER}"

Validate Evaluate Exp

Functions

- Conversion
- Data
- Date
- Environment
- Exceptions
- File
- Logic
- Number
- Text

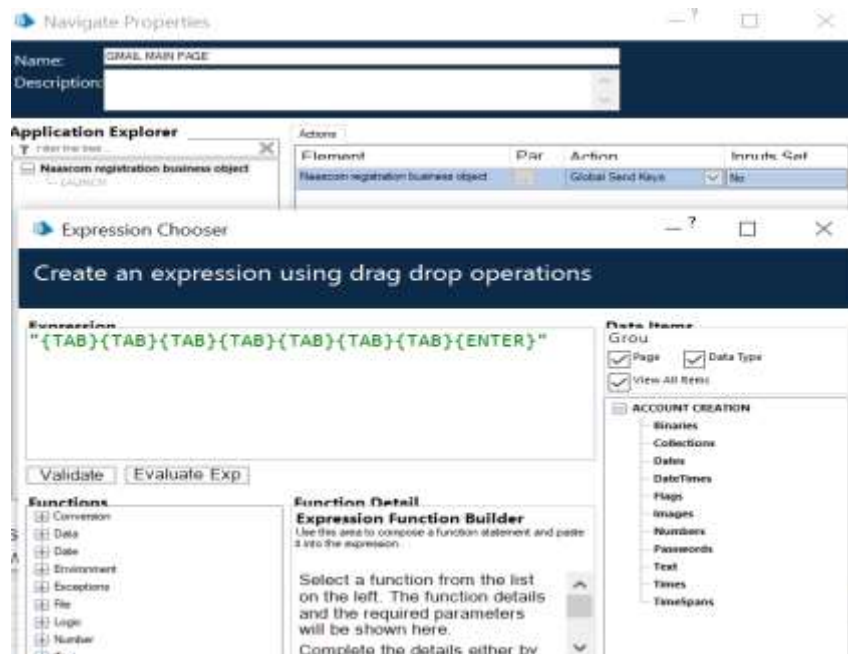
Function Detail
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Use this area to compose a function statement and paste it into the expression.
Select a function from the list on the left. The function details and the required parameters will be shown here.
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Data Items
Group
☒ Page ☒ Data Type
☒ View All Items
ACCOUNT CREATION

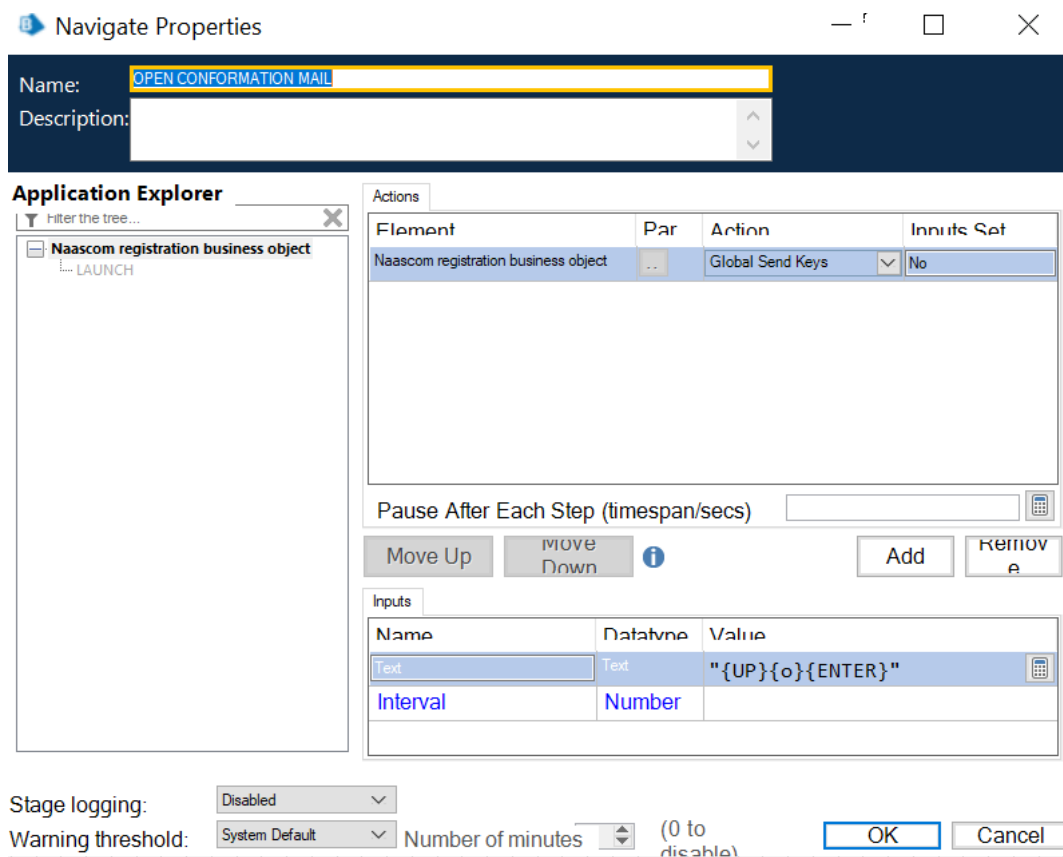
- Binaries
- Collections
- Dates
- DateTimes
- Flags
- Images
- Numbers
- Passwords
- Text
- Times
- TimeSpans

OK Cancel

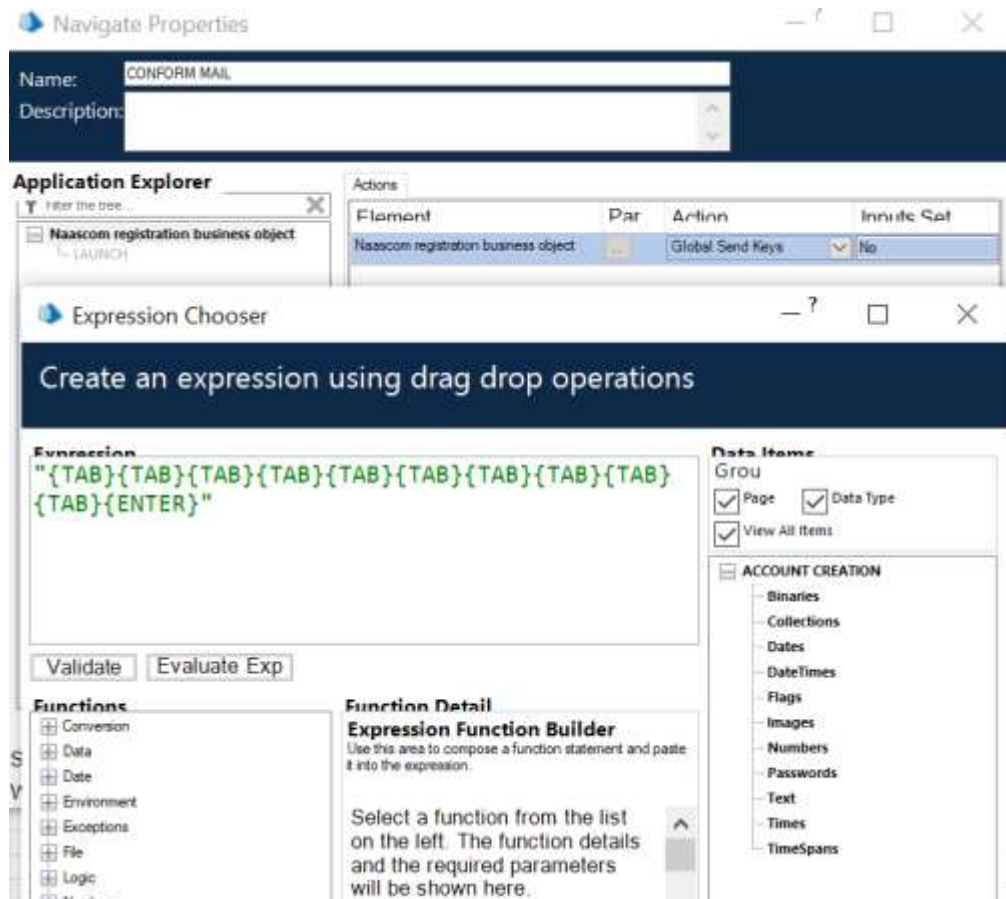
TO OPEN GMAIL MAIN PAGE:



TO OPEN CONFORMATION MAIL:



TO CONFIRM EMAIL ADDRESS:



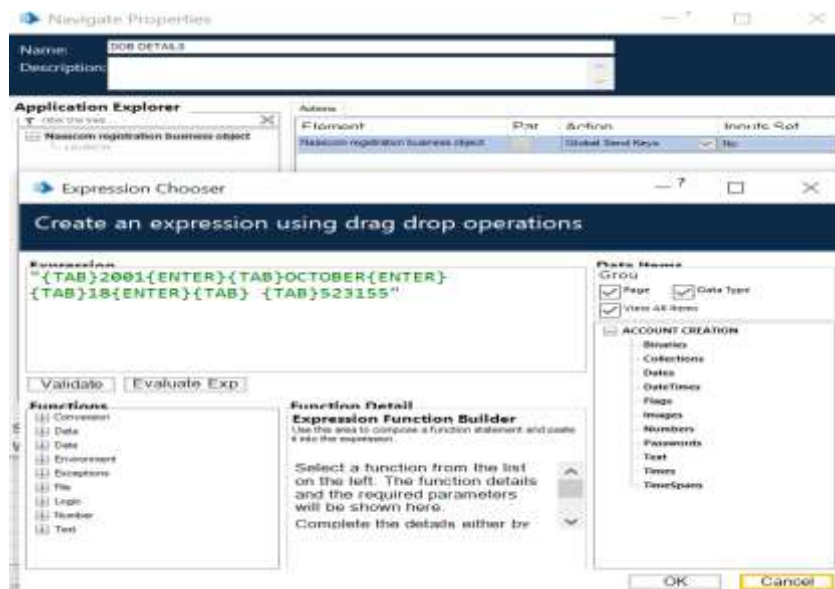
Step -7:

After confirming email address the page will redirect to the prime portal on boarding details page. The bot need to accept the terms and conditions and need to fill the student date of birth details using the navigate properties as shown below

TO ACCEPT TERMS & CONDITIONS:



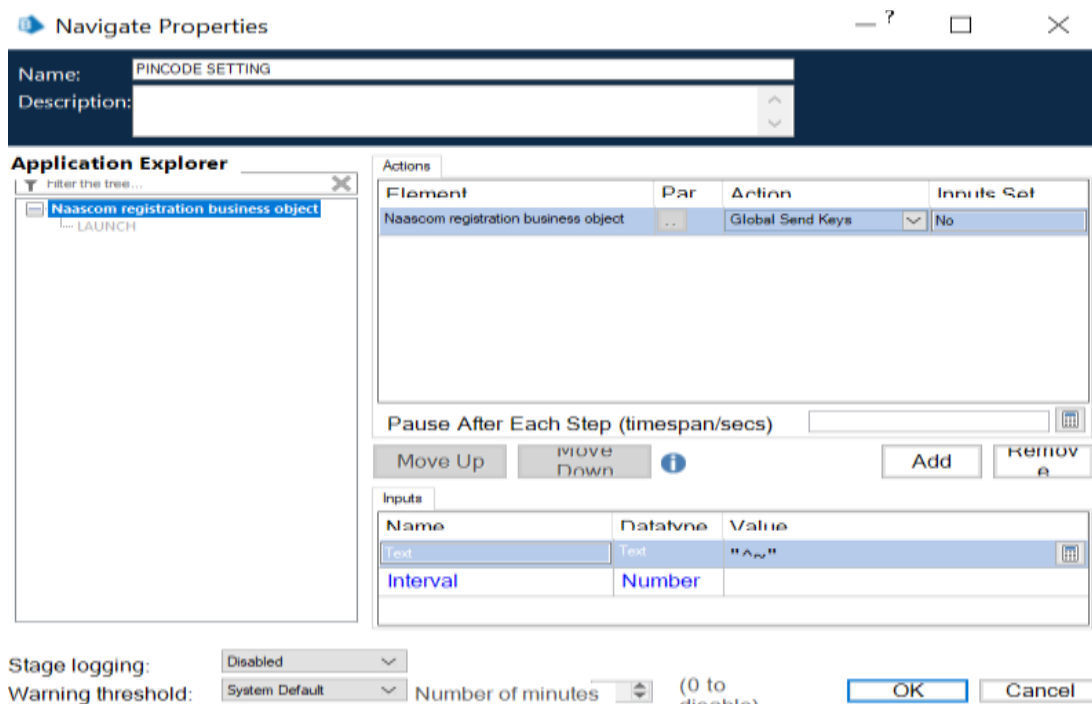
TO FILL THE DATE OF BIRTH DETAILS:



Step -8:

After entering the pincode the bot need to perform ctrl+enter operation with the help of global send keys. For that we need set the navigate properties as shown below

TO CONFORM THE PINCODE:



Step -9:

After conforming the pincode the bot need to enter and verify the phone number through otp. For that we need set the navigate properties as shown below

TO VERIFY PHONE NUMBER:

The screenshot shows the 'Navigate Properties' dialog box. The 'Name' field is 'PHN NUMBER VERIFICATION'. The 'Application Explorer' on the left shows a tree with 'Naascom registration business object' and 'LAUNCH'. The 'Actions' table has one row: 'Naascom registration business object' with 'Global Send Keys' as the action and 'No' for 'Inside Set'. Below the table, 'Pause After Each Step (timespan/secs)' is set to 0. The 'Inputs' table has two rows: 'Text' with value '{TAB} 8897804504 {TAB} {ENT}' and 'Interval' with value 'Number'. At the bottom, 'Stage logging' is 'Disabled' and 'Warning threshold' is 'System Default'.

Element	Par	Action	Inside Set
Naascom registration business object		Global Send Keys	No

Name	Path/Name	Value
Text		{TAB} 8897804504 {TAB} {ENT}
Interval	Number	

AFTER OTP CONFORMATION:

The screenshot shows the 'Navigate Properties' dialog box. The 'Name' field is 'OTP CONFORM'. The 'Application Explorer' on the left shows a tree with 'Naascom registration business object' and 'LAUNCH'. The 'Actions' table has one row: 'Naascom registration business object' with 'Global Send Keys' as the action and 'No' for 'Inside Set'. Below the table, 'Pause After Each Step (timespan/secs)' is set to 0. The 'Inputs' table has two rows: 'Text' with value '{TAB} {TAB} {ENTER}' and 'Interval' with value 'Number'. At the bottom, 'Stage logging' is 'Disabled' and 'Warning threshold' is 'System Default'.

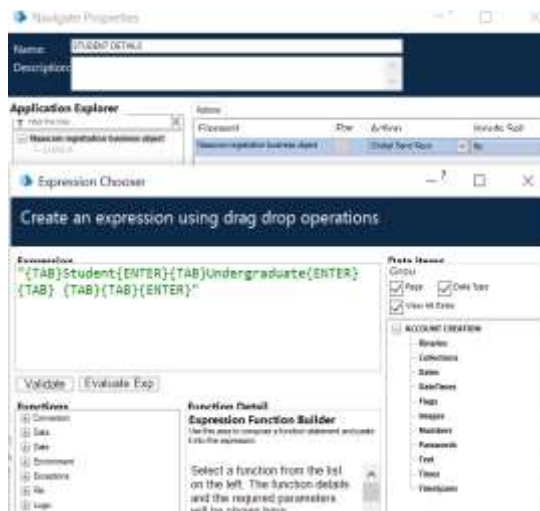
Element	Par	Action	Inside Set
Naascom registration business object		Global Send Keys	No

Name	Path/Name	Value
Text		{TAB} {TAB} {ENTER}
Interval	Number	

Step -10:

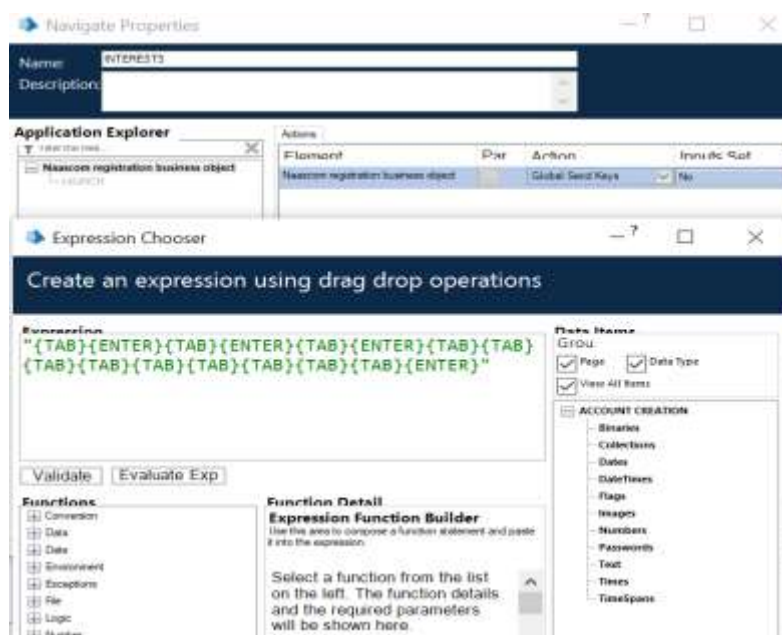
After Verification bot need to fill the student educational details. For that we need to set the navigate propertie as shown below

TO FILL STUDENT EDUCATIONAL DETAILS:



Step -11:

After that bot need to select the students interests. For that we need to set the navigate propertie as shown below



Step -12:

After filling all the details it will redirect to the prime portal home page in that bot need to show the my learning page and groups page after that it need to open about prime tab and need to select one course.

TO OPEN MY LEARNING PAGE:

The screenshot shows the 'Navigate Properties' dialog box. The 'Name' field is filled with 'MY LEARNING'. The 'Description' field is empty. The 'Application Explorer' on the left shows a tree structure with 'Naascom registration business object' expanded. The 'Actions' table on the right has one row: 'Naascom registration business object' in the 'Element' column, 'Global Send Keys' in the 'Action' column, and 'No' in the 'Include Set' column. Below the table, there are buttons for 'Move Up', 'Move Down', 'Add', and 'Remove'. The 'Pause After Each Step (timespan/secs)' field is empty. The 'Inputs' table has two rows: 'Name' with value '["{TAB}]{TAB}]{TAB}]{ENTER}]" and 'Interval' with value 'Number'. At the bottom, there are settings for 'Stage logging' (Disabled), 'Warning threshold' (System Default), and 'Number of minutes' (0 to 15 minutes). 'OK' and 'Cancel' buttons are at the bottom right.

Element	Action	Include Set
Naascom registration business object	Global Send Keys	No

Name	Interval	Value
		"{TAB}]{TAB}]{TAB}]{ENTER}]"
Interval	Number	

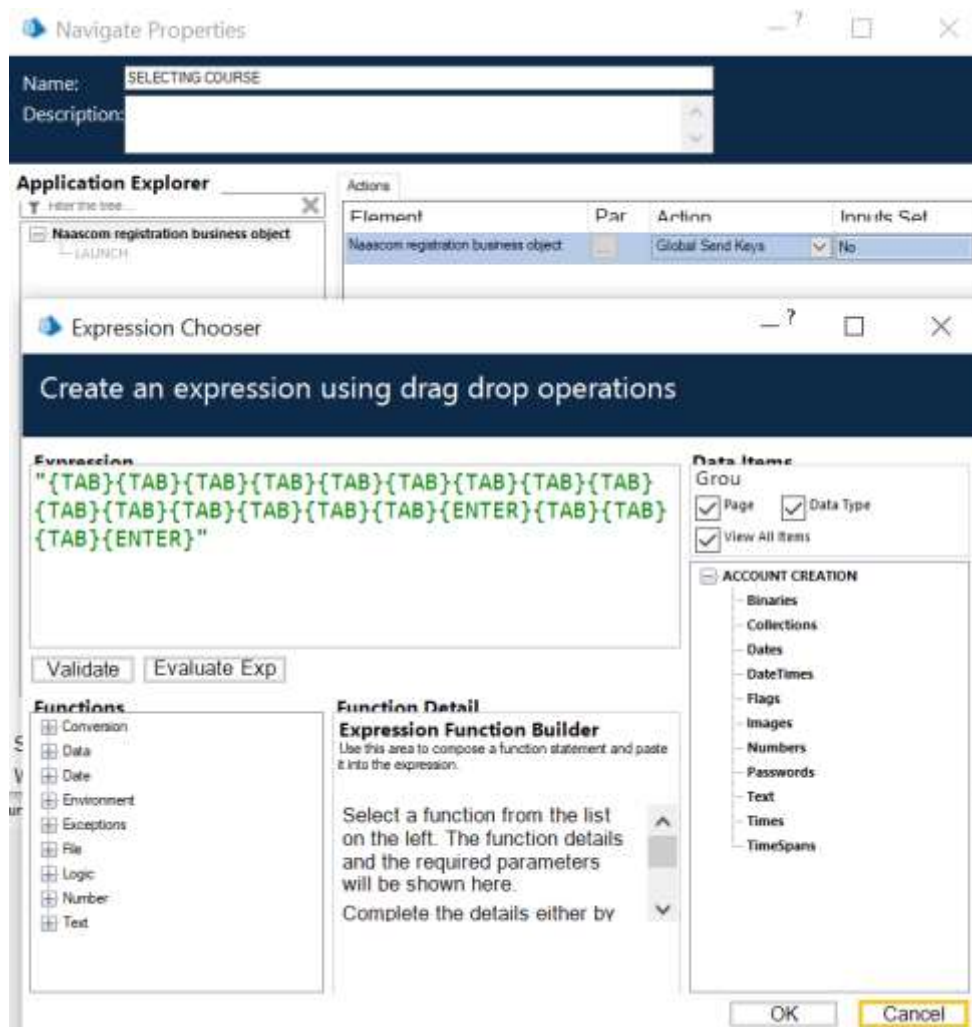
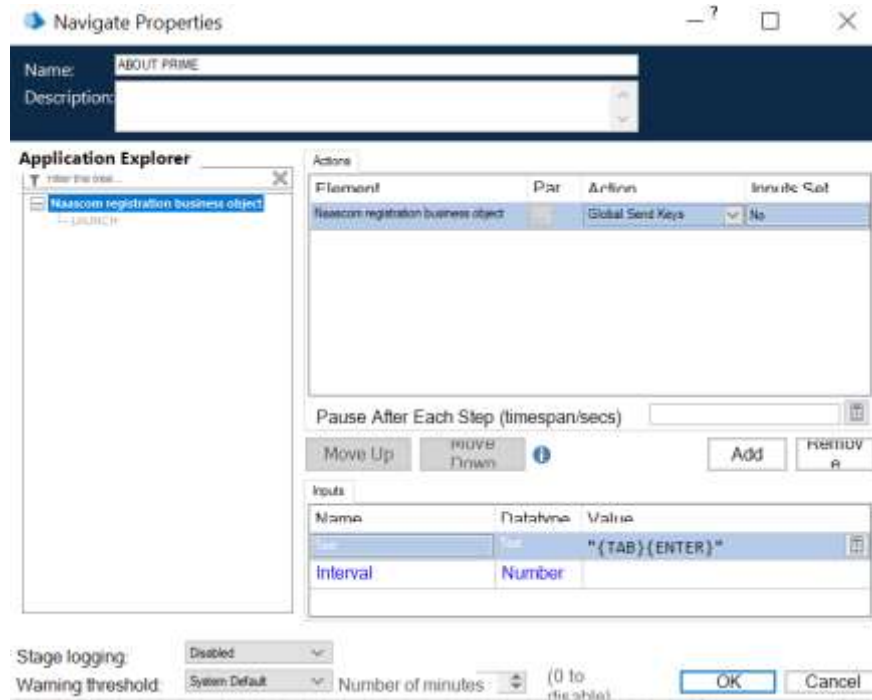
TO OPEN GROUPS PAGE:

The screenshot shows the 'Navigate Properties' dialog box. The 'Name' field is filled with 'GROUPS'. The 'Description' field is empty. The 'Application Explorer' on the left shows a tree structure with 'Naascom registration business object' expanded. The 'Actions' table on the right has one row: 'Naascom registration business object' in the 'Element' column, 'Global Send Keys' in the 'Action' column, and 'No' in the 'Include Set' column. Below the table, there are buttons for 'Move Up', 'Move Down', 'Add', and 'Remove'. The 'Pause After Each Step (timespan/secs)' field is empty. The 'Inputs' table has two rows: 'Name' with value '["{TAB}]{ENTER}]" and 'Interval' with value 'Number'. At the bottom, there are settings for 'Stage logging' (Disabled), 'Warning threshold' (System Default), and 'Number of minutes' (0 to 15 minutes). 'OK' and 'Cancel' buttons are at the bottom right.

Element	Action	Include Set
Naascom registration business object	Global Send Keys	No

Name	Interval	Value
		"{TAB}]{ENTER}]"
Interval	Number	

TO OPEN ABOUT PRIME TAB AND TO REGISTER IN A COURSE:



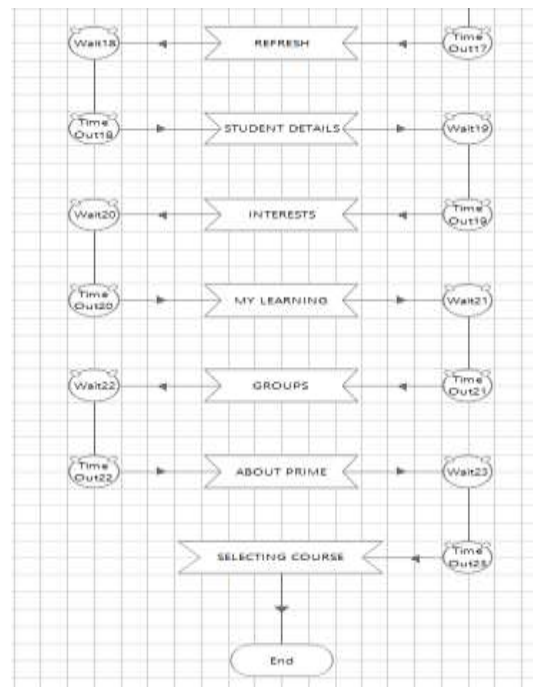
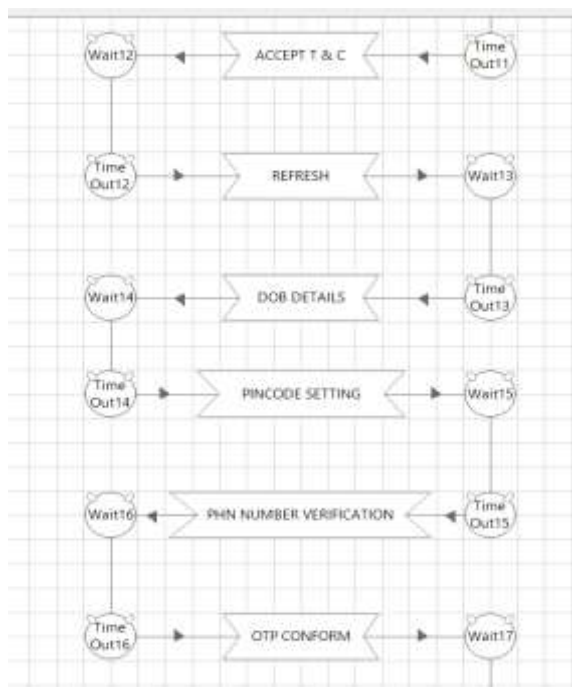
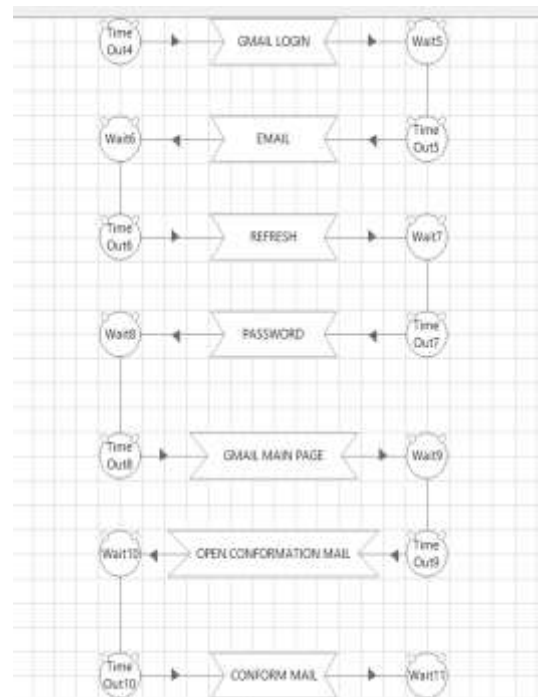
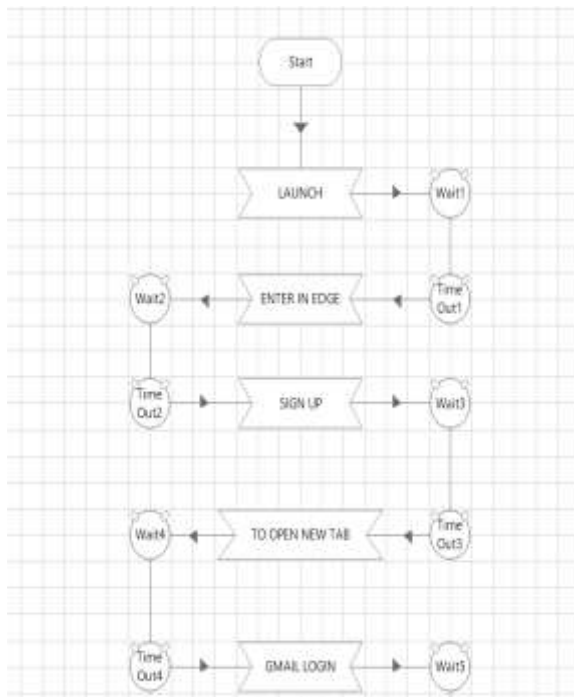
By doing all these tasks the bot completed the task of Registering students to NASSCOM

prime portal with the help of global send keys. In this process we have used wait stage for 5 seconds at every navigation to show the process in a clear manner. The global send keys are always represented in flower braces with capital Letters(Ex: **{ENTER}**)

The Global send keys we used in our project are:

OPERATION	GLOBAL SEND KEYS
To Navigate to another tab	{TAB}
To Perform enter	{ENTER}
To perform click on checkbox	We need to give space
To Perform control(ctrl)	^
To perform shift	+
To perform Alt	%
To Navigate to New Tab	^(N)
To Refresh the present Tab	^(R)
To perform ctrl+enter	^~
To Perform page scroll lock	{SCROLLLOCK}
To Perform page down	{PGDN}
To Perform page up	{PGUP}
To Perform down arrow	{DOWN}
To Perform Up arrow	{UP}
To Perform Delete	{DEL}
To Perform Insert	{INS}

Flow Chart Representation Of The Object:

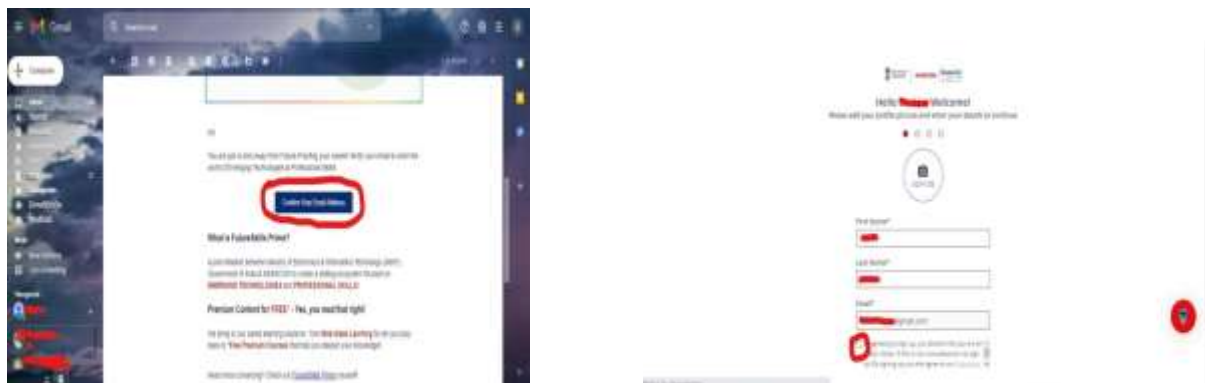


ACTUAL OUTPUTS OF OUR PROJECT:

Registration page looks like this – Click on sign up & Create account using your email id and tick check box Verification email will be send to registered email id.



Open your email and confirm your email address. Once you confirm email ID, fill in the details as shown in image & click next



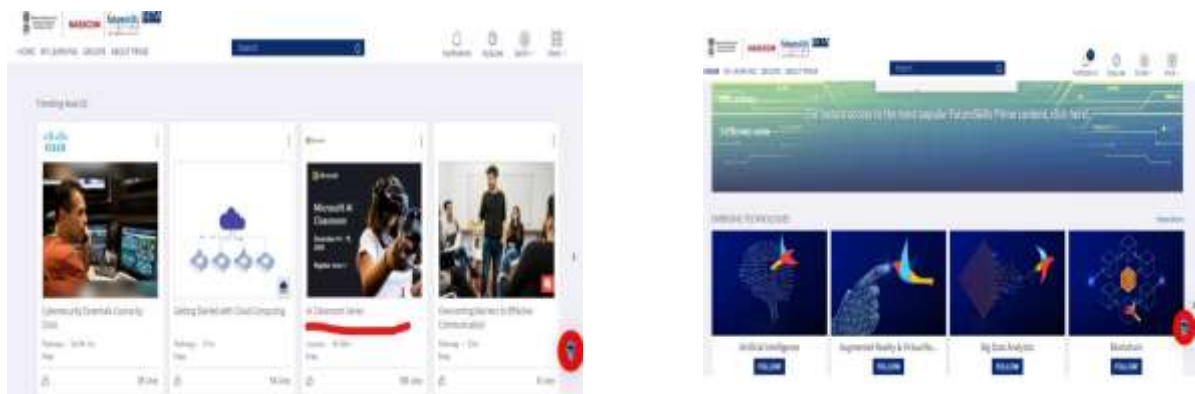
Fill all the details as shown on the screen & click next. Select Occupation and Education details & click Next

Two side-by-side screenshots of a profile completion form. The left screenshot shows the 'Basic Details' section with fields for Name, Gender, City, State, Country, and Pincode. The right screenshot shows the 'Current Occupation' and 'Education Details' sections.

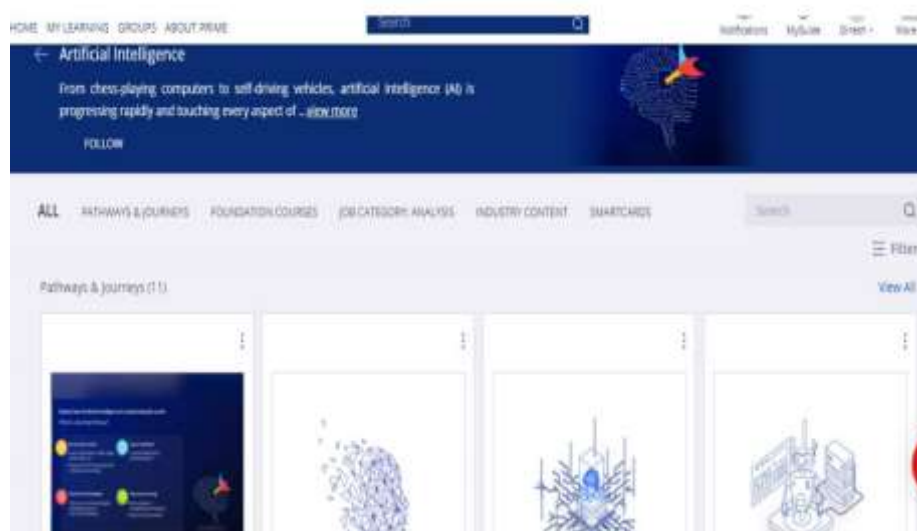
Select any 3 knowledge areas of your interest. Click on trending now.



You can check the trending topics. Select Artificial Intelligence.



In Artificial Intelligence browse through pathways and journey , Smartcards.



THANK YOU