**CHAPTER 4**

**SYSTEM ANALYSIS**

A detailed study to determine whether, to what extent, and how this system is used, it is usually an analysis of exiting system. In order to state about the design of the new system, including the development of system specification which provides a base for the selection of equipment.

* 1. **EXISTING SYSTEM**
* Automatically the bot monitors on the price change.
* Sends a notification message along with a voice

message to make the customer aware.

* In case of price drop ,it sends an email invitation to purchase the product with that product-purchase link
* **4.1.1 Drawbacks of Existing System**
* Manually the customer has to visit the e-commerce site to check for the price drop each and every time.
* The customer is not sure of when there will be a drop in the price and may miss the opportunity to buy on that period.
* No notification from the e-commerce site on the price change.
  1. **PROPOSED SYSTEM** In this proposed system it will automatically monitors on the price change. Sends a notification message along with a voice message to make the customer aware. In case of price drop, it sends an email invitation to purchase the product with that product-purchase link.
  2. **FEASIBILITY STUDY**

The feasibility of the project is analyzed were the automation process is simplified and less efficient. In proposed system the automation process is not a burden to any of the business applications. In feasibility analysis, the e-Commerce site is the major requirement and essential in the robotic automation. The feasibility study, investigates that manual checks for the price drop notification in E-Commerce sites takes more time with network troublesome. It seeks to determine to provide a simple task of automating the process, so that the time and manual errors are reduced. In the time of development, the study gathers information by using a variety of activities, which are implemented to the work flow are:

* Entering into the customer login and check for the products available in the cart/wish list.
* Now the bot checks for the product in the cart, if there is no product in the cart the bot will terminate automatically, else the bot enters into the cart.
* Data scraping is done on the products and their prices that are added to the cart by the customers.
* Excel automation on the scraped data.
* Monitoring the price change be it a hike or drop and comparing the price with expected price sheet.
* If there is a price hike it notifies with the price hike message to the customer and again monitors on price. In case the price decline is encountered the bot notifies with price drop message along with an Email automation attached with the purchase link invitation.
* The main goal of the feasibility study is to reduce the time the customer visits the e-Commerce site regarding the price drop.

**4.3.1 TYPES OF FEASIBILITY**

Feasibility study can be done in three ways, they are:

* Technical Feasibility
* Operational Feasibility
* Economic Feasibility

**4.3.1.1 TECHINICAL FEASIBILITY**

This study is carried out to check the technical feasibility, that is, the technical requirements of the automation system. We will be using Windows 7/ 8/ 8.1/ 10 for the automation process. The software used for the automation is UiPath which is a free, fully-featured and extensible version of our automation tool. This platform delivers the fastest and most reliable RPA that enhances business performance at unlimited scale. It is easy to use, highly responsive, and instantly scalable to allow you to build the process.

**4.3.1.2 OPERATIONAL FEASIBILITY**

Operational feasibility is the measure of how the price change on the product is monitored by automation. It is depended upon determining whether the site is active for monitoring the price change in the automation system. It refers to project whether the system will operate and UiPath automation tool is installed. The e-Commerce site is logged in and UiPath tool is used to automate the automation process. The bot monitors on the price change. It sends a notification message along with a voice message to make the customer aware. In case of price drop, it sends an email invitation to purchase the product with that product-purchase link. If any errors are found in between, the automation throws an exception and easily fixed from the error part.

**4.3.1.3 ECONOMIC FEASIBILITY**

Economic feasibility is carried out to check economic impact on the system which is automated. Since RPA (UiPath) is an open source automation tool, it can be applied to various business application process and no expenditures required. Thus the automation process goes well and freely available.

**CHAPTER 5**

**SOFTWARE DESCRIPTION**

**5.1 UIPATH**

UiPath is a free, fully-featured and extensible version of our automation tool. This platform delivers the fastest and most reliable RPA that enhances business performance at unlimited scale. It is easy to use, highly responsive, and instantly scalable to allow you to build the process.

RPA tools are defined as non-integrated, stand-alone software for laptops and workstations. UiPath is recognized worldwide for product leadership and technical excellence. RPA is the largest in the industry, the most active in the automation field.

**A UiPath feature has three main products:**

* **UiPath Studio-** It designs automation process using diagrams, which are visually appealing
* **UiPath Robot-** Executes the UiPath Studio Processes
* **UiPath Orchestrator –** It is an application that deploys, manages, and monitors processes/robots

UiPath Robots and Executors interact with huge amounts of data at the same time. We can run a process either on a single, or multiple robots or any specified number of robots and can group them in the environment.

UiPath Studio software automates back-office repetitive tasks. It is one of the tools used in automating business processes. It converts each task into UI automation, thereby making work easier and quicker. Multiple workflow designs are available in Studio. UiPath Studio comes with a debug component that easily locates problems within complex workflows. This easily verifies the execution activity and observes if there are any errors in the output.

* + 1. **FEATURES**
* **Workflow Types and Activities** – Multiple types of workflows are available in Studio (sequences, flowcharts and transactional business processes) that help you build your automation workflow according to your needs. To create these workflows, you need activities (actions that you use to automate apps, such as clicking and typing). Around 300 of these activities exist, and they enable you to interact with web browsers, desktop apps, PDFs, images, databases, terminals, Excel spreadsheets, email accounts and many others, while you can also easily create HTTP and SOAP requests.
* **Recorder Functionality** - The easiest manner to create workflows is by using the record feature. Four types of recordings are available: **Basic**, **Desktop**, **Web** and **Citrix**. The first two can help you automate desktop applications, while the others enable you to properly handle web apps and virtual environments.

### Variables and .Net Functions - A variable enables you to store a value, but only of a certain type. In addition to these, .Net functions can also be used to enhance your automation, such as .*Trim* which removes the spaces from the beginning and end of a string, or .*ToString* which transforms a certain type of variable into a string.

### Robots and Orchestrator – Robots, the UiPath executors, can interact with a large amount of applications in the same time. An example is provided in the video.

### Orchestrator, the final piece of the puzzle, is used to manage multiple deployed Robots. This type of environment is usually found in large enterprises that need to automate many business processes. The first thing you need to do in this web app is register your Robot(s). After that, you need to group them together in an environment.

### Workflows published to this platform have to be linked to an environment, and from there, you start executing: be it right now or based on a custom- defined schedule. You can run a process on one or multiple Robots, a specified number of them or on all the Robots that are grouped in an environment.

### Assets and Queues - Since Robots may need to share information, a special kind of variables are introduced in Orchestrator, assets. These enable you to store information (including credentials) in the web app’s database, so that changing a value that is used in multiple processes becomes easy, and multiple Robots can have access to it.

### UiPath also makes use of work queues to distribute the load of a transactional process among multiple Robots. They can be scheduled to begin before or after a certain date, and detailed information contained in each queue item can be viewed.

### Logs, Audit, Alerts - In the ****Logs**** tab you can easily see how the Robots performed, what jobs were completed or failed. In addition, every step carried out by the user can be audited, and alerts are sent by email to all those who have the required permissions.

Finally, roles management is available, along with other nice features such as importing users from an Active Directory group, splitting up automation processes among teams through multiple tenants, and displaying information in neat charts.

**5.1.1.2 ADVANTAGE**

* UiPath is considered to user-friendly.
* UiPath provides with high speed in case of implementation.
* This can be utilized in case if several services related to integration that have a different module for workflow.
* The main advantages of this tool that it provides desktop contribution and also Citrix environment.
* A community edition is provided by this tool which is free so that everyone is allowed to learn and download study materials.

**CHAPTER 6**

**PROJECT DESCRIPTION**

This chapter provides the problem definition and describes the roles of the different subject of the system. It also lists the different modules and the option under it. It will also allow the automatic price change and notifies to the customer.

**6.1 PROBLEM DEFINITION**

The existing system faces few problems that the price change need to be manually checked by the customer by visiting the site each and ever time. So the robot monitors the price change automatically. After the completion of process mail will be sent to that particular user on price drop.

**6.2 OVERVIEW OF THE PROJECT**

The proposed system consists of 4 panels: Login, Selection process, Data Entry and Mailing. The Login has to be done by the Examination Cell and the Anna University site will becomes active. After that the selection process will be started and it will automatically enter the marks in web portal entry. After entering all the subject mark for each and every subject it will close automatically. Then it will send the mail to the particular class advisor and the Head of the Department after completing the process.

**6.3 MODULE DESCRIPTION**

Module description provides detailed explanation of the functionalities involved in the application.

The following are the modules involved in this application

* 1. Data-Scrapping the product on the Cart/Wish-List
  2. Excel Automation
  3. Monitoring the price change
  4. Comparing the price with expected price(approx.)
  5. Notification and voice message
  6. E-mail Automation

**6.3.1 DATA SCRAPPING**

In this module, the products that the customer adds into the cart are being scrapped. Here we use data scrapping tool available in the UiPath software. Once the product has been added to the cart the bot automatically scrape the available product in the cart. In this process we scrape the product name and price only for each and every product available in the cart.

**6.3.2 EXCEL AUTOMATION**

In the Excel Automation, once the products and their respective prices are being scrapped, the datas are fetched into the excel sheet. Excel automation is done by using the Excel Application Scope activity comprising of Write Range activity. The datas are arranged as product name, link and price correspondingly. This enables us to monitor on the price change.

**6.3.3 MONITORING THE PRICE CHANGE**

In this section the Price Scanning is done by contrasting the product price on the day it has been added to the cart with the subsequent price changes made by the e-Commerce site further. This helps the bot to send notification, Voice Message followed by an Email Invitation further more. Similarly we create an Excel Sheet based on the expected price of the customer. This also helps the bot to make the comparison where the price may be assigned within the range approximately.

**6.3.4 NOTIFICATION AND VOICE MESSAGE**

In the Notification and Voice Message module, the customer receives with a notification via message box activity from the UiPath. Once the message notification is being sent, the customer also receives with a voice message from a text-to-speech activity. Here we also send the message for both price hike and price drop since the customer should be aware of the hike as well as drop to buy the products respectively. The two activities being involved are message box and text-to-speech.

**6.3.5 EMAIL AUTOMATION**

The E-mail automation is being generated in case when there is only the price drop/descend. This automation consists of the product purchase link in case of price drop which enables us to purchase the product. Here the mail is generated to the customer’s registered mail ID with the e-Commerce site.

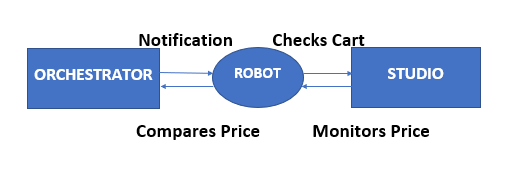
**6.4 DATA FLOW DIAGRAM-DFD**

Data flow diagram is the 2-D diagram that explains how data is processed and transferred in a system. The graphical depiction defines each source of data and how it interacts with the other sources to reach common output.

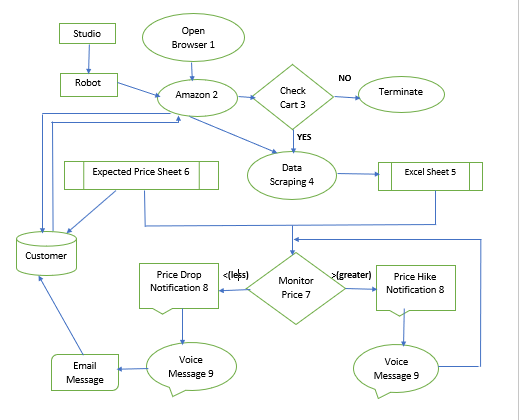
**SYMBOLS:**

Activity and the title for the activity should be placed inside the rectangle. Data Flow Diagram (DFD) is an important technique for modeling the systems in high-level detail by showing how input data is transformed to output result through a sequences function al transformations.

DFDs reveal relationship among and between the various components in a program or system. DFD consists of four major components: Entities, Procedures, Data stores and Data flow.



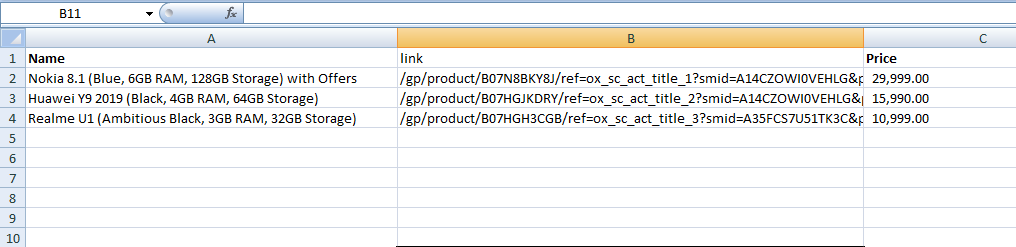
**FIGURE 6.1 DFD LEVEL 0**



**FIGURE 6.2 DFD LEVEL 1**

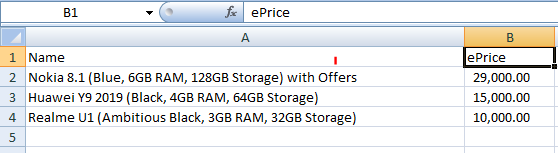
**6.5 EXCEL SHEET**

**TABLE 6.1 – EXCEL AUTOMATION (Data Scrapping)**

****

This automated Excel sheet contains the scrapped data of the Product name, Product link and the Product price from the customers Cart/Wish-list.

**TABLE 6.2 – EXPECTED PRICE LIST**

****

This Excel sheet is generated manually on the basis of the expected price fixed by the customer to buy the product

**CHAPTER 7**

**SYSTEM TESTING**

Testing the behavior of the whole software/system in the software requirement specification (SRS) is known as system testing, its main focus is to verify that the user requirement is fulfilled. System testing should test functional and non-functional requirement of the software. Testing the software system or software application as a whole is referred to as system testing of the software to evaluate software’s overall compliance with the business/functional and user requirements. The system testing comes under black box software testing. So the knowledge of the internal design or structure or code is not required for this type of software testing.

In system testing software test professional aims to detect defects or bugs within the interfaces and also within software as a whole. However, during integration testing of the application or software, the software tests professional aims to detect the bugs/defects between the individual units that are integrated together.

**7.1 TESTING METHODS**

* White box testing
* Basic path testing
* Stress testing
* Acceptance testing
* Black box testing
* Integration testing

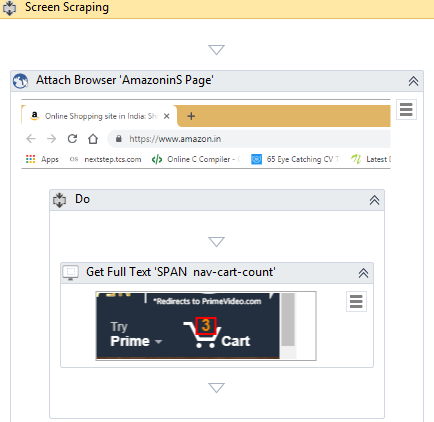
**i)** Functional testing

**ii)** Non-functional testing

**7.2 TYPES OF TESTING**

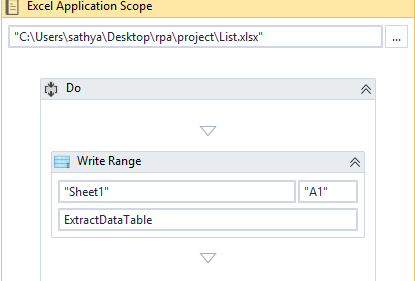
**7.2.1 UNIT TESTING**

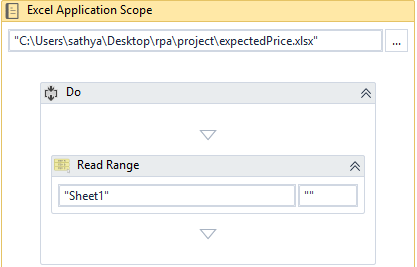
In computer programming, unit testing is a software testing method by which individual units of source code, sets of one or more computer program modules. Here it is tested whether the cart contains the product which is indicated by its count number.



**7.2.2 INTEGRATION TESTING**

Integration testing is the phase in software testing in which individual software modules are combined and tested as a group. Here the various sheet data are integrated together to perform the various calculations.

****

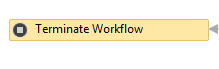
****

**7.2.3 FUNCTIONAL TESTING**

Functions are tested by feeding them input and examining the output, and internal program structure is rarely considered. Functional testing usually describes what the system does. Functional testing does not imply that you are testing a function (method) of your module or class. Functional testing tests slice of functionality of the whole system.

**7.2.4 STRESS TESTING**

Stress testing a Non-Functional testing technique that is performed as part of performance testing. During stress testing, the system is monitored after subjecting the system to overload to ensure that the system can sustain the stress. Reasons can be to determine breaking points or safe usage limits.

****

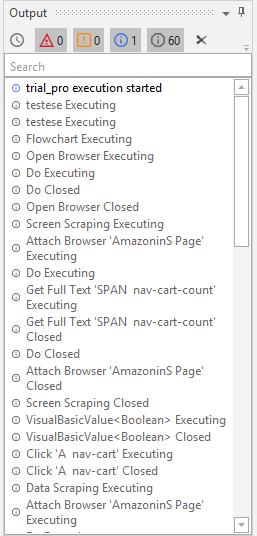
**7.2.5 ACCEPTANCE TESTING**

Acceptance Testing is a level of the software testing where a system is tested for acceptability. The purpose of this test is to evaluate the system**’**s compliance with the business requirements and assess whether it is acceptable for delivery.

**7.2.6 WHITE BOX TESTING**

White box testing is also called as Glass box testing. In this testing, by knowing the specific functions that a product has been design to perform test can be conducted that demonstrates each function which is fully operational, at the same time searching for errors in each function. It is the testing of a software solution's internal coding and infrastructure. It focuses primarily on strengthening security, the flow of inputs and outputs through the application, and improving design and usability. White box testing is based on the inner workings of an application and revolves around internal testing.

In this testing, it will check that all the activity have been process successfully. If any of the activity is not satisfied it will thrown an exception.

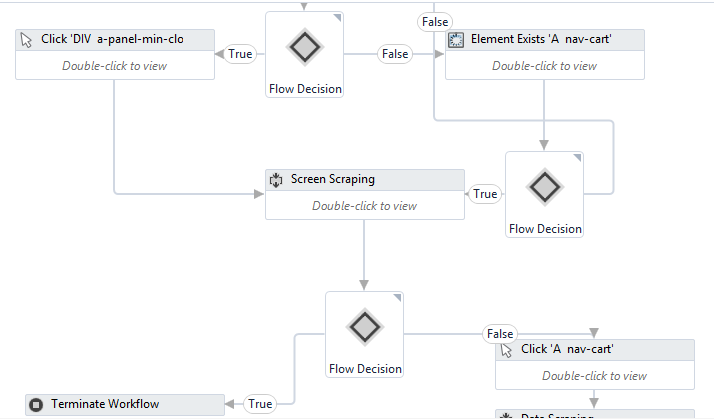


**7.2.7 BLACK BOX TESTING**

In black box testing by knowing the internal operation of a product, test can be conducted to ensure that, it is the internal operation performs according to specification and all internal components have been adequately exercised. It fundamentally focuses on the functional requirements of the software.

Black box testing is a software testing techniques in which functionality of the software under test (SUT) is tested without looking at the internal code structure, implementation details and knowledge of internal paths of the software. This type of testing is based entirely on the software requirements and specifications.

A software testing strategy provides a road map for the software developer. Testing is a set activity that can be planned in advance and conducted systematically. For this reason a template for software testing a set of steps into which there can be placed a specific test case design methods.



**7.2.7.1 Methods of Black Box Testing**

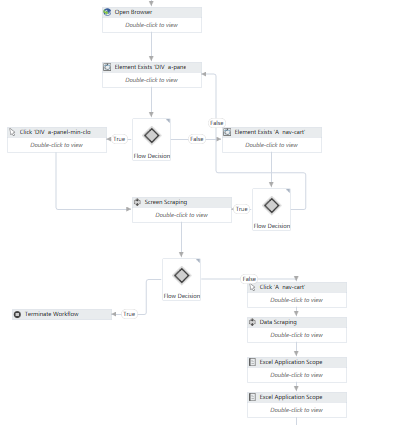
There are many types of Black Box Testing but following are the prominent

ones -

* Functional testing - This black box testing type is related to functional requirements of a system; it is done by software testers.
* Non-functional testing - This type of black box testing is not related to testing of a specific functionality, but non-functional requirements such as performance, scalability, usability.
* Regression testing - Regression testing is done after code fixes, upgrades or any other system maintenance to check the new code has not affected the existing code.

**7.3 TEST CASES**

A test case in software engineering is a set of conditions or variables under which a tester will determine whether an application or software system is working correctly or not. The mechanism for determining whether a software program or system has passed or failed such a test is known as a test oracle. In some settings, an oracle could be a requirement or use case, while in others it could be a heuristic. It may take many test cases to determine that a software program or software program or system is considered sufficiently scrutinized to be released. Test cases are often referred to as test scripts, particularly when written.



**CHAPTER 8**

**SYSTEM IMPLEMENTATION**

**Robotic Process Automation (RPA) with UiPATH**

System implementation is the construction of the new system by considering the flow of activity and way to implementing it. Robotic Processing Automation known as RPA is an emerging technology that automates a process in computer using Software Robots**.**

Robot is a term that refers to software or applications that replicates the action of user and communicate with the system user interface. Process is said to be steps or sequence to do certain things. Automation is doing certain things automatically.

RPA is a process of creating software robots that could do certain process automatically, without human intervention**.**

**Example:**

* Automatic Emails
* Data Scraping
* Automatic Document Creation

**Tools Available**

* Ui PATH
* Blue Prism
* Automation Anywhere

**UiPATH**

UiPath is the best RPA tool in terms of technology. The community edition of UiPath is free of cost and anyone can download and use it. UiPath is built using .NET framework. Hence, we can use functions of C# in it.UiPath studio is the IDE that is used to create Robotic Process Automation.



**8.1 UiPath studio**

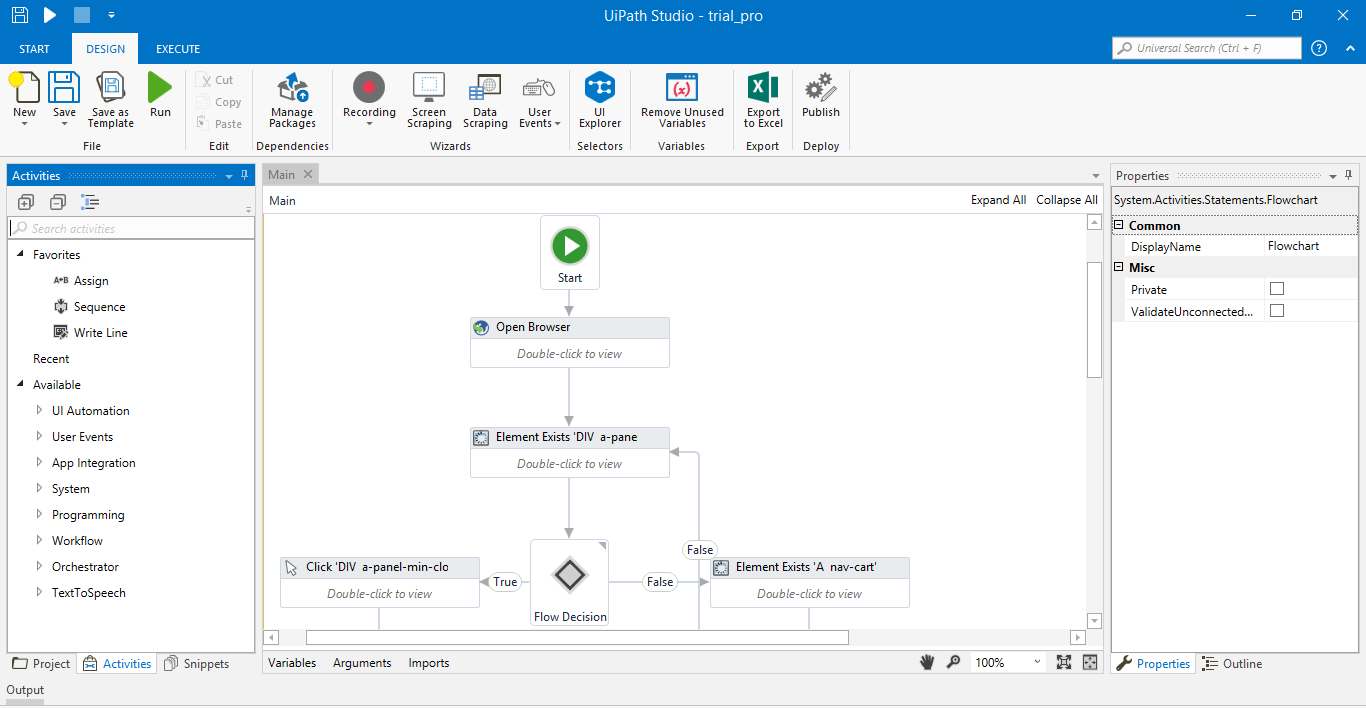
This is how the start page of UiPath Studio looks like. You can select any of the options to create a process.

The process may be defined in two types

* **Sequence** - Sequence is used when the tasks needs to be done in sequential manner.
* **Flow Charts** - Flow charts are used when there are multiple branches or conditions.

**UiPath Activities**

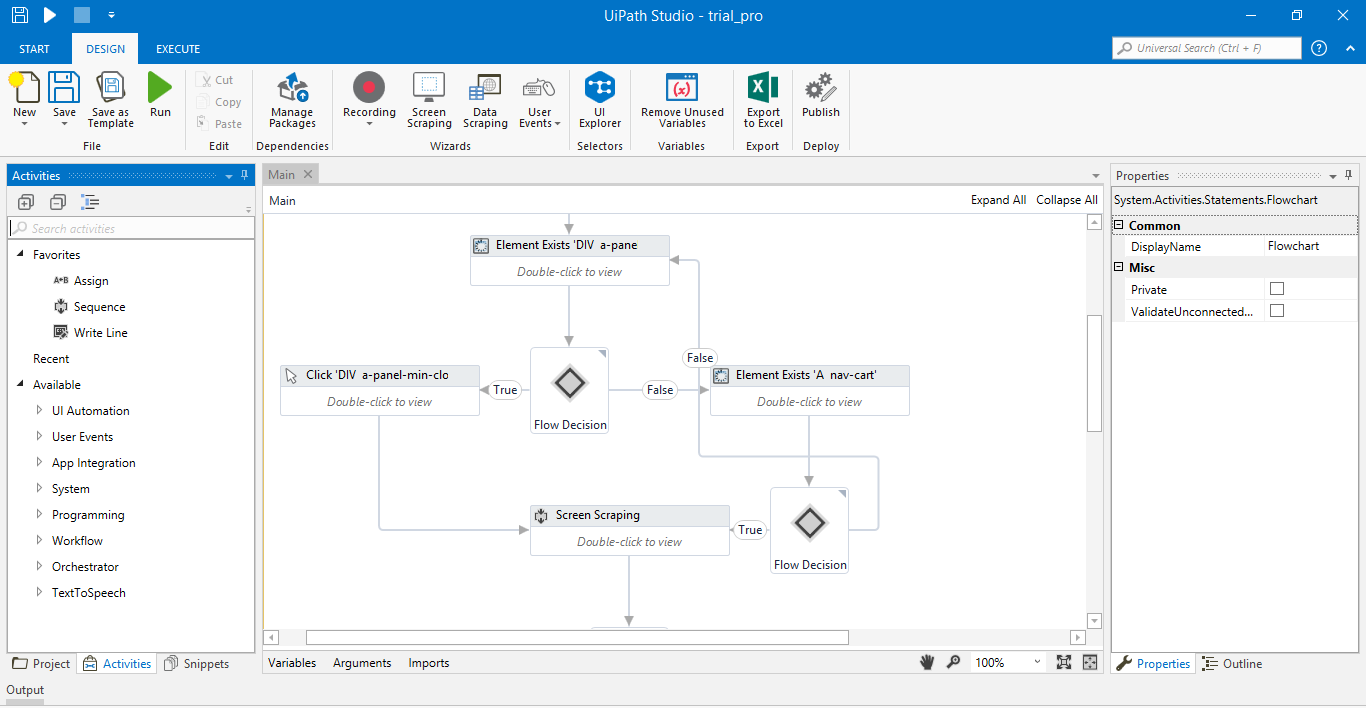
UiPath has 300+ inbuilt activities. We can also import packages like Excel, Mail, and PDF in addition to the built-in packages. These activities are available in activities pane.



**8.1.1 Activities Pane**

**Work Space**

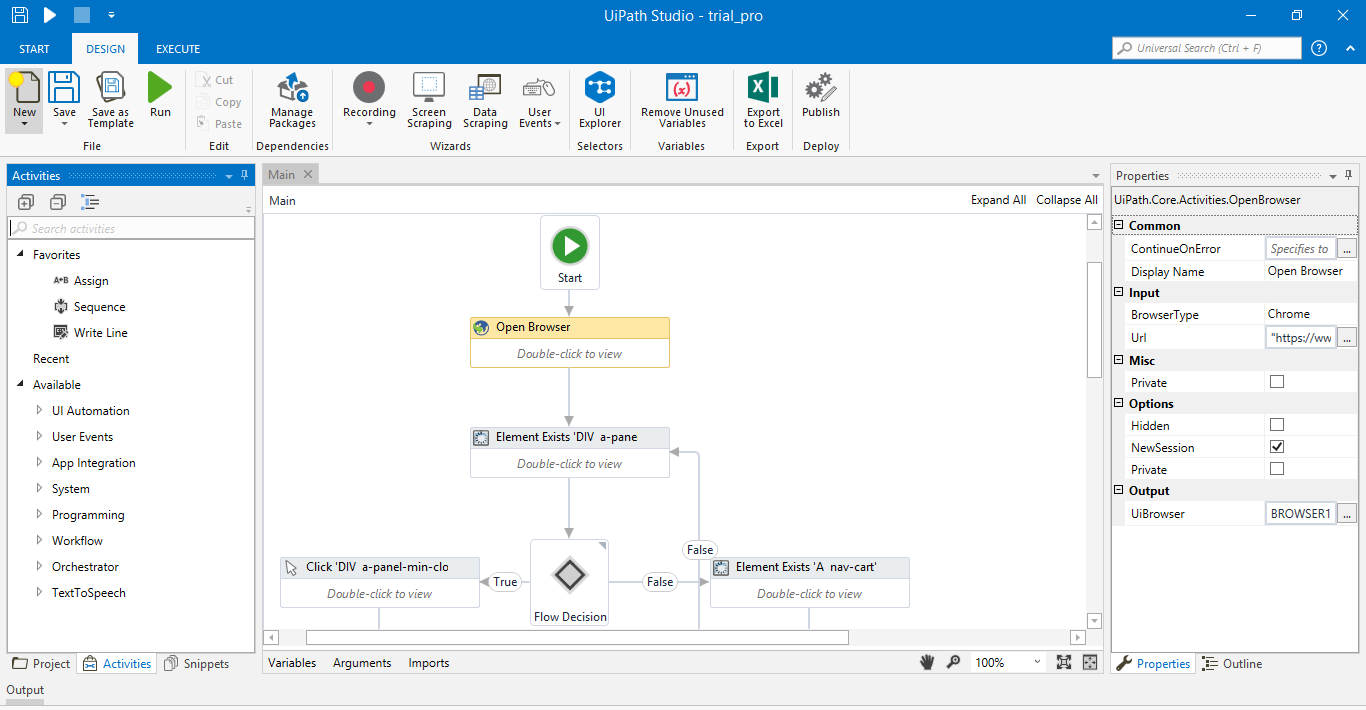
UiPath work space is the place where we actually create sequences or flow charts. The tool allows the user to create variable and store values using the variables pane or using the properties pane. The sequences and flow charts are called as workflows in UiPath.



**8.1.2 Workspace**

**Properties Pane**

In properties pane, we can give properties and values to components in work flows. Also we can create variables by hitting *ctrl + K* key in output textbox.



**8.1.3 Properties Pane**

These three are the important panes in UiPath. The other panes are Output Pane, where we could see the Outputs, Logs and Error Messages and Outline pane, which shows the outline of the project.

**Record and Playback**

UiPath has Record and Playback feature. This feature records the actions by humans and makes it as a sequence and makes it an automated process. There are 4 types of Recordings available in UiPath

* Basic Recording
* Desktop Recording
* Web Recording
* Citrix Recording



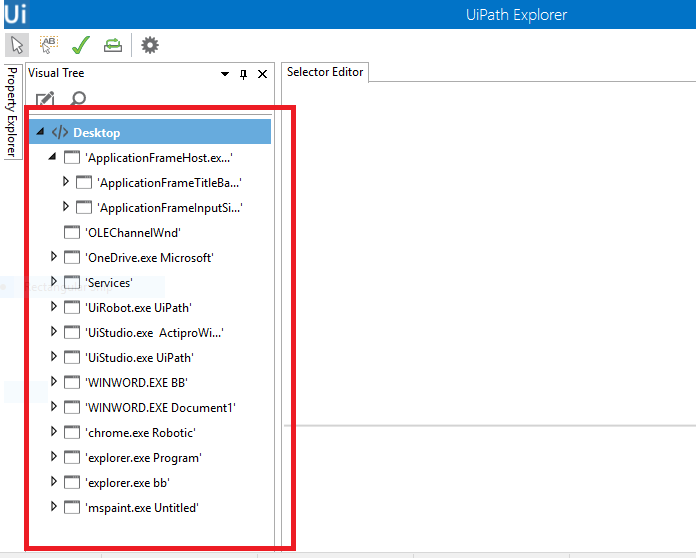
**8.1.4 Recording Types**

**Screen Scraping and Data Scraping**

Scraping is getting specific data from a page or application. Screen Scraping is used to scrape data from applications and web pages. Data Scraping is scraping data that is repetitive in structure like query results in Google Search Engine or any tabular content. It has a special wizard called Data Scraping Wizard that helps to scrape data. Data Scraping is mainly used in web pages.

**UiExplorer**

UiExplorer has details about the user interface components and selectors. A selector is basically a plain text that is used to find a particular UI element among the running applications.



**8.1.5 Ui Explorer**

**Run, Debug and Breakpoints**

Run is used to run the Software Robot in UiPath environment. Debug is used to analyses the workflows step-by-step. Break Point is used to pause the debugging at a particular step. Slow step is used to execute the bot little slower.



**8.1.6 Run, Debug and Breakpoints**

**CHAPTER 9**

**CONCLUSION AND FUTURE ENHANCEMENT**

**9.1 CONCLUSION**

Price Change Notification Bot is very helpful in automatically sending the price change notification to the customer who adds the product in his cart awaiting for the price drop. Here the products added are automatically retrieved by Data Scrapping the cart products by UiPath and the Excel automation is done. Now based on the price hike or slide, the notification will be sent to the customer along with a voice message by the developed robot. Similarly the sites can maintain a database to get the customers expected price on the product and the comparison can also be done accordingly with an increase of approximately fixed amount by the server. Finally, once the price drop is found the email containing the purchase link invitation is sent to the respective customer’s Email ID.

**9.2 FUTURE ENHANCEMENT**

Price Change Notification Bot is done by using the UiPath tool with the respective packages. We can also implement the process by the servers and databases maintained by the corresponding e-Commerce site on the particular account of the customer. In case of customer’s sign up with mobile number, the message needs to be sent to their respective numbers. But the UiPath message service access is not yet enabled in India.

**CHAPTER 10**

**APPENDIX**

**10.1 SOURCE CODE**

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xmlns:av="http://schemas.microsoft.com/winfx/2006/xaml/presentation"

xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"

xmlns:mva="clr-namespace:Microsoft.VisualBasic.Activities;assembly=System.Activities"

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xmlns:sap=<http://schemas.microsoft.com/netfx/2009/xaml/activities/presentation>

xmlns:sap2010=<http://schemas.microsoft.com/netfx/2010/xaml/activities/presentation>

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xmlns:t="clr-namespace:TextToSpeech;assembly=TextToSpeech"

xmlns:twa="clr-namespace:Twilio.Workflow.Activities;assembly=TwilioSMS"

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<AssemblyReference>System.Xml.Linq</AssemblyReference>

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<AssemblyReference>WindowsBase</AssemblyReference>

<AssemblyReference>PresentationCore</AssemblyReference>

<AssemblyReference>System.Xaml</AssemblyReference>

<AssemblyReference>UiPath.UiAutomation.Activities</AssemblyReference>

<AssemblyReference>UiPath.System.Activities</AssemblyReference>

<AssemblyReference>System.ServiceModel</AssemblyReference>

<AssemblyReference>UiPath.Excel</AssemblyReference>

<AssemblyReference>UiPath.Mail</AssemblyReference>

<AssemblyReference>System.ValueTuple</AssemblyReference>

</sco:Collection>

</TextExpression.ReferencesForImplementation>

<Sequence DisplayName="testese" sap2010:WorkflowViewState.IdRef="Sequence\_10">

<Flowchart sap2010:WorkflowViewState.IdRef="Flowchart\_2">

<Flowchart.Variables>

<Variable x:TypeArguments="ui:Browser" Name="BROWSER1" />

<Variable x:TypeArguments="ui:GenericValue" Name="price" />

<Variable x:TypeArguments="ui:GenericValue" Name="cartValue" />

<Variable x:TypeArguments="x:Boolean" Name="cart\_Founded" />

<Variable x:TypeArguments="x:Boolean" Name="popup\_Found" />

<Variable x:TypeArguments="sd:DataTable" Default="[New System.Data.DataTable]" Name="ExtractDataTable" />

<Variable x:TypeArguments="sd:DataTable" Name="eprice" />

<Variable x:TypeArguments="x:String" Name="voiceExpect" />

<Variable x:TypeArguments="sd:DataTable" Name="kk" />

<Variable x:TypeArguments="x:String" Name="password" />

</Flowchart.Variables>

<Flowchart.StartNode>

<FlowStep x:Name="\_\_ReferenceID13" sap2010:WorkflowViewState.IdRef="FlowStep\_20">

<ui:OpenBrowser BrowserType="Chrome" DisplayName="Open Browser" Hidden="False" sap2010:WorkflowViewState.IdRef="OpenBrowser\_1" NewSession="True" Private="False" UiBrowser="[BROWSER1]" Url="https://www.amazon.in/">

<ui:OpenBrowser.Body>

<ActivityAction x:TypeArguments="x:Object">

<ActivityAction.Argument>

<DelegateInArgument x:TypeArguments="x:Object" Name="ContextTarget" />

</ActivityAction.Argument>

<Sequence DisplayName="Do" sap2010:WorkflowViewState.IdRef="Sequence\_9" />

</ActivityAction>

</ui:OpenBrowser.Body>

</ui:OpenBrowser>

<FlowStep.Next>

<FlowStep x:Name="\_\_ReferenceID12" sap2010:WorkflowViewState.IdRef="FlowStep\_18">

<Sequence DisplayName="Screen Scraping" sap2010:WorkflowViewState.IdRef="Sequence\_8">

<ui:BrowserScope SearchScope="{x:Null}" Selector="{x:Null}" TimeoutMS="{x:Null}" UiBrowser="{x:Null}" Browser="[BROWSER1]" BrowserType="Chrome" DisplayName="Attach Browser 'AmazoninS Page'" sap2010:WorkflowViewState.IdRef="BrowserScope\_2" InformativeScreenshot="fb13d3537102682f0c4143c55cdeae8d">

<ui:BrowserScope.Body>

<ActivityAction x:TypeArguments="x:Object">

<ActivityAction.Argument>

<DelegateInArgument x:TypeArguments="x:Object" Name="ContextTarget" />

</ActivityAction.Argument>

<Sequence DisplayName="Do" sap2010:WorkflowViewState.IdRef="Sequence\_7">

<ui:GetFullText DisplayName="Get Full Text 'SPAN nav-cart-count'" sap2010:WorkflowViewState.IdRef="GetFullText\_1" IgnoreHidden="False">

<ui:GetFullText.Target>

<ui:Target ClippingRegion="{x:Null}" Element="{x:Null}" TimeoutMS="{x:Null}" InformativeScreenshot="e4d2b7933c4f60dd76438ca3d8011e0a" Selector="&lt;html app='chrome.exe' title='Online Shopping site in India: Shop Online for Mobiles, Books, W\*' /&gt;&lt;webctrl id='nav-cart-count' tag='SPAN' /&gt;" WaitForReady="COMPLETE" />

</ui:GetFullText.Target>

<ui:GetFullText.Text>

<OutArgument x:TypeArguments="ui:GenericValue">[cartValue]</OutArgument>

</ui:GetFullText.Text>

</ui:GetFullText>

</Sequence>

</ActivityAction>

</ui:BrowserScope.Body>

</ui:BrowserScope>

</Sequence>

<FlowStep.Next>

<FlowDecision x:Name="\_\_ReferenceID11" Condition="[cartValue.Trim.Equals(&quot;0&quot;)]" DisplayName="Flow Decision" sap2010:WorkflowViewState.IdRef="FlowDecision\_3">

<FlowDecision.True>

<FlowStep x:Name="\_\_ReferenceID10" sap2010:WorkflowViewState.IdRef="FlowStep\_1">

<TerminateWorkflow DisplayName="Terminate Workflow" sap2010:WorkflowViewState.IdRef="TerminateWorkflow\_1" Reason="Cart Value is empty" />

</FlowStep>

</FlowDecision.True>

<FlowDecision.False>

<FlowStep x:Name="\_\_ReferenceID14" sap2010:WorkflowViewState.IdRef="FlowStep\_17">

<ui:Click DelayBefore="{x:Null}" DelayMS="{x:Null}" ClickType="CLICK\_SINGLE" DisplayName="Click 'A nav-cart'" sap2010:WorkflowViewState.IdRef="Click\_1" KeyModifiers="None" MouseButton="BTN\_LEFT" SendWindowMessages="False" SimulateClick="False">

<ui:Click.CursorPosition>

<ui:CursorPosition Position="Center">

<ui:CursorPosition.OffsetX>

<InArgument x:TypeArguments="x:Int32" />

</ui:CursorPosition.OffsetX>

<ui:CursorPosition.OffsetY>

<InArgument x:TypeArguments="x:Int32" />

</ui:CursorPosition.OffsetY>

</ui:CursorPosition>

</ui:Click.CursorPosition>

<ui:Click.Target>

<ui:Target ClippingRegion="{x:Null}" Element="{x:Null}" TimeoutMS="{x:Null}" InformativeScreenshot="cb2ad8d3414fd2cf29b5187794067157" Selector="&lt;html app='chrome.exe' title='Online Shopping site in India: Shop Online for Mobiles, Books, W\*' /&gt;&lt;webctrl id='nav-cart' tag='A' /&gt;" WaitForReady="INTERACTIVE" />

</ui:Click.Target>

</ui:Click>

<FlowStep.Next>

<FlowStep x:Name="\_\_ReferenceID18" sap2010:WorkflowViewState.IdRef="FlowStep\_16">

<Sequence DisplayName="Data Scraping" sap2010:WorkflowViewState.IdRef="Sequence\_2">

<ui:BrowserScope SearchScope="{x:Null}" Selector="{x:Null}" TimeoutMS="{x:Null}" UiBrowser="{x:Null}" Browser="[BROWSER1]" BrowserType="Chrome" DisplayName="Attach Browser 'AmazoninS Page'" sap2010:WorkflowViewState.IdRef="BrowserScope\_1" InformativeScreenshot="1d0de5a909982ad1b0c788b37af23471">

<ui:BrowserScope.Body>

<ActivityAction x:TypeArguments="x:Object">

<ActivityAction.Argument>

<DelegateInArgument x:TypeArguments="x:Object" Name="ContextTarget" />

</ActivityAction.Argument>

<Sequence DisplayName="Do" sap2010:WorkflowViewState.IdRef="Sequence\_1">

<ui:ExtractData NextLinkSelector="{x:Null}" ContinueOnError="True" DataTable="[ExtractDataTable]" DelayBetweenPagesMS="300" DisplayName="Extract Structured Data 'FORM activeCartViewForm'" ExtractMetadata="&lt;extract&gt;&lt;row exact='1'&gt;&lt;webctrl tag='div' class='sc-list-body sc-java-remote-feature' idx='1'/&gt;&lt;webctrl tag='div' class='a-row sc-list-item sc-list-item-border sc-java-remote-feature'/&gt;&lt;webctrl tag='div' class='sc-list-item-content' idx='1'/&gt;&lt;webctrl tag='div' class='a-row a-spacing-base a-spacing-top-base' idx='1'/&gt;&lt;/row&gt;&lt;column exact='1' name='Name' attr='text' name2='link' attr2='href'&gt;&lt;webctrl tag='div' class='sc-list-body sc-java-remote-feature' idx='1'/&gt;&lt;webctrl tag='div' class='a-row sc-list-item sc-list-item-border sc-java-remote-feature'/&gt;&lt;webctrl tag='div' class='sc-list-item-content' idx='1'/&gt;&lt;webctrl tag='div' class='a-row a-spacing-base a-spacing-top-base' idx='1'/&gt;&lt;webctrl tag='div' class='a-column a-span8' idx='1'/&gt;&lt;webctrl tag='div' class='a-fixed-left-grid' idx='1'/&gt;&lt;webctrl tag='div' class='a-fixed-left-grid-inner' idx='1'/&gt;&lt;webctrl tag='div' class='a-fixed-left-grid-col a-col-right' idx='1'/&gt;&lt;webctrl tag='ul' class='a-unordered-list a-nostyle a-vertical a-spacing-mini' idx='1'/&gt;&lt;webctrl tag='li' idx='1'/&gt;&lt;webctrl tag='span' class='a-list-item' idx='1'/&gt;&lt;webctrl tag='a' class='a-link-normal sc-product-link' idx='1'/&gt;&lt;webctrl tag='span' class='a-size-medium sc-product-title a-text-bold' idx='1'/&gt;&lt;/column&gt;&lt;column exact='1' name='Price' attr='text'&gt;&lt;webctrl tag='div' class='sc-list-body sc-java-remote-feature' idx='1'/&gt;&lt;webctrl tag='div' class='a-row sc-list-item sc-list-item-border sc-java-remote-feature'/&gt;&lt;webctrl tag='div' class='sc-list-item-content' idx='1'/&gt;&lt;webctrl tag='div' class='a-row a-spacing-base a-spacing-top-base' idx='1'/&gt;&lt;webctrl tag='div' class='a-column a-span2 a-text-left' idx='1'/&gt;&lt;webctrl tag='p' class='a-spacing-small' idx='1'/&gt;&lt;webctrl tag='span' class='a-size-medium a-color-price sc-price sc-white-space-nowrap sc-product-price sc-price-sign a-text-bold' idx='1'/&gt;&lt;/column&gt;&lt;/extract&gt;" sap2010:WorkflowViewState.IdRef="ExtractData\_1" MaxNumberOfResults="100">

<ui:ExtractData.Target>

<ui:Target ClippingRegion="{x:Null}" Element="{x:Null}" TimeoutMS="{x:Null}" InformativeScreenshot="7efb0b3fe8963558f0c0bbf9ca64a595" Selector="&lt;webctrl id='activeCartViewForm' tag='FORM' /&gt;" WaitForReady="COMPLETE" />

</ui:ExtractData.Target>

</ui:ExtractData>

</Sequence>

</ActivityAction>

</ui:BrowserScope.Body>

</ui:BrowserScope>

</Sequence>

<FlowStep.Next>

<FlowStep x:Name="\_\_ReferenceID15" sap2010:WorkflowViewState.IdRef="FlowStep\_15">

<ui:ExcelApplicationScope Password="{x:Null}" DisplayName="Excel Application Scope" sap2010:WorkflowViewState.IdRef="ExcelApplicationScope\_1" WorkbookPath="C:\Users\SINDHU\Desktop\rpa\project\List.xlsx">

<ui:ExcelApplicationScope.Body>

<ActivityAction x:TypeArguments="ui:WorkbookApplication">

<ActivityAction.Argument>

<DelegateInArgument x:TypeArguments="ui:WorkbookApplication" Name="ExcelWorkbookScope" /></ActivityAction.Argument>

<Sequence DisplayName="Do" sap2010:WorkflowViewState.IdRef="Sequence\_3">

<ui:ExcelWriteRange AddHeaders="True" DataTable="[ExtractDataTable]" DisplayName="Write Range" sap2010:WorkflowViewState.IdRef="ExcelWriteRange\_1" SheetName="Sheet1" StartingCell="A1" />

</Sequence>

</ActivityAction>

</ui:ExcelApplicationScope.Body>

</ui:ExcelApplicationScope>

<FlowStep.Next>

<FlowStep x:Name="\_\_ReferenceID16" sap2010:WorkflowViewState.IdRef="FlowStep\_14">

<ui:ExcelApplicationScope Password="{x:Null}" DisplayName="Excel Application Scope" sap2010:WorkflowViewState.IdRef="ExcelApplicationScope\_2" WorkbookPath="C:\Users\SINDHU\Desktop\rpa\project\expectedPrice.xlsx">

<ui:ExcelApplicationScope.Body>

<ActivityAction x:TypeArguments="ui:WorkbookApplication">

<ActivityAction.Argument>

<DelegateInArgument x:TypeArguments="ui:WorkbookApplication" Name="ExcelWorkbookScope" />

</ActivityAction.Argument>

<Sequence DisplayName="Do" sap2010:WorkflowViewState.IdRef="Sequence\_4">

<ui:ExcelReadRange AddHeaders="True" DataTable="[eprice]" DisplayName="Read Range" sap2010:WorkflowViewState.IdRef="ExcelReadRange\_1" SheetName="Sheet1">

<ui:ExcelReadRange.Range>

<InArgument x:TypeArguments="x:String">

<Literal x:TypeArguments="x:String" Value="" />

</InArgument>

</ui:ExcelReadRange.Range>

</ui:ExcelReadRange>

</Sequence>

</ActivityAction>

</ui:ExcelApplicationScope.Body>

</ui:ExcelApplicationScope>

<FlowStep.Next>

<FlowStep x:Name="\_\_ReferenceID17" sap2010:WorkflowViewState.IdRef="FlowStep\_13">

<ui:ForEachRow CurrentIndex="{x:Null}" DataTable="[ExtractDataTable]" DisplayName="For Each Row" sap2010:WorkflowViewState.IdRef="ForEachRow\_2">

<ui:ForEachRow.Body>

<ActivityAction x:TypeArguments="sd:DataRow">

<ActivityAction.Argument>

<DelegateInArgument x:TypeArguments="sd:DataRow" Name="row" />

</ActivityAction.Argument>

<Sequence DisplayName="Body" sap2010:WorkflowViewState.IdRef="Sequence\_6">

<ui:ForEachRow CurrentIndex="{x:Null}" DataTable="[eprice]" DisplayName="For Each Row" sap2010:WorkflowViewState.IdRef="ForEachRow\_1">

<ui:ForEachRow.Body>

<ActivityAction x:TypeArguments="sd:DataRow">

<ActivityAction.Argument>

<DelegateInArgument x:TypeArguments="sd:DataRow" Name="row1" />

</ActivityAction.Argument>

<Sequence DisplayName="Body" sap2010:WorkflowViewState.IdRef="Sequence\_5">

<Flowchart sap2010:WorkflowViewState.IdRef="Flowchart\_1">

<Flowchart.StartNode>

<FlowDecision x:Name="\_\_ReferenceID0" Condition="[row.Equals(row1)]" DisplayName="Flow Decision" sap2010:WorkflowViewState.IdRef="FlowDecision\_2">

<FlowDecision.True>

<FlowStep x:Name="\_\_ReferenceID3" sap2010:WorkflowViewState.IdRef="FlowStep\_2">

<t:Speech sap2010:WorkflowViewState.IdRef="Speech\_1" Speed="0" Text="Expected price reached" Volume="100" />

<FlowStep.Next>

<FlowStep x:Name="\_\_ReferenceID8" sap2010:WorkflowViewState.IdRef="FlowStep\_24">

<ui:MessageBox Caption="{x:Null}" ChosenButton="{x:Null}" Buttons="Ok" DisplayName="Message Box" sap2010:WorkflowViewState.IdRef="MessageBox\_7" Text="[&quot;Expected price reached&quot;]" TopMost="True" />

</FlowStep>

</FlowStep.Next>

</FlowStep>

</FlowDecision.True>

<FlowDecision.False>

<FlowDecision x:Name="\_\_ReferenceID1" Condition="[CDbl(row(2).ToString.Trim)&lt;=(CDbl(row1(1).ToString.Trim)+250) And CDbl(row(2).ToString.Trim)&lt;=(CDbl(row1(1).ToString.Trim)+500)]" DisplayName="Flow Decision" sap2010:WorkflowViewState.IdRef="FlowDecision\_1">

<FlowDecision.True>

<FlowStep x:Name="\_\_ReferenceID4" sap2010:WorkflowViewState.IdRef="FlowStep\_4">

<t:Speech sap2010:WorkflowViewState.IdRef="Speech\_2" Speed="0" Text="Price has been dropped" Volume="100" />

<FlowStep.Next>

<FlowStep x:Name="\_\_ReferenceID7" sap2010:WorkflowViewState.IdRef="FlowStep\_23">

<ui:MessageBox Caption="{x:Null}" ChosenButton="{x:Null}" Buttons="Ok" DisplayName="Message Box" sap2010:WorkflowViewState.IdRef="MessageBox\_6" Text="[&quot;Price has been dropped&quot;]" TopMost="True" />

<FlowStep.Next>

<FlowStep x:Name="\_\_ReferenceID9" sap2010:WorkflowViewState.IdRef="FlowStep\_25">

<ui:GetPassword DisplayName="Get Password" sap2010:WorkflowViewState.IdRef="GetPassword\_1" ProtectedPassword="AQAAANCMnd8BFdERjHoAwE/Cl+sBAAAAMi5/LzTClUiT7j+UPjuNSwAAAAACAAAAAAAQZgAAAAEAACAAAABgLsuAPb+VbMhTAqKCBgj/8gN243YZkmNm8KJsENXTgQAAAAAOgAAAAAIAACAAAADIBVAKe0pGowbdtDO13oStzahSBzVO8lchuLH4CswNqBAAAADLQAxb+KZ6UNAlAlxZnEACQAAAAJkCQw16tnTWr57PfIi8Tg8VRFAuWXHlWSH38tKr56rVwOYi/nSFZra7C5B6Uhgh6rE0tPUSq93AXloHOTgrqog=" Result="[password]" />

<FlowStep.Next>

<FlowStep x:Name="\_\_ReferenceID5" sap2010:WorkflowViewState.IdRef="FlowStep\_12">

<ui:SendMail Bcc="{x:Null}" Cc="{x:Null}" From="{x:Null}" MailMessage="{x:Null}" Name="{x:Null}" TimeoutMS="{x:Null}" Body="[&quot;Dear Customer,&quot;+vbNewLine+&quot;HurryUp!!! The price has been dropped for &lt;b&gt;&quot;+row(0).ToString+&quot;&lt;/b&gt;&quot;+vbNewLine+ &quot;The purchase link is &lt;a href=https://www.amazon.in/&quot;+row(1).ToString+&quot;&gt;Click Here&lt;/a&gt;&quot;]" DisplayName="Send SMTP Mail Message" Email="divyajeja@gmail.com" EnableSSL="True" sap2010:WorkflowViewState.IdRef="SendMail\_1" IsBodyHtml="True" Password="[password]" Port="465" SecureConnection="Auto" Server="smtp.gmail.com" Subject="PRICE DROP!!!TIME TO GRAB..." To="januhemanyaa@gmail.com">

<ui:SendMail.Files>

<scg:List x:TypeArguments="InArgument(x:String)" Capacity="0" />

</ui:SendMail.Files>

</ui:SendMail>

</FlowStep>

</FlowStep.Next>

</FlowStep>

</FlowStep.Next>

</FlowStep>

</FlowStep.Next>

</FlowStep>

</FlowDecision.True>

<FlowDecision.False>

<FlowStep x:Name="\_\_ReferenceID6" sap2010:WorkflowViewState.IdRef="FlowStep\_22">

<t:Speech sap2010:WorkflowViewState.IdRef="Speech\_6" Speed="0" Text="Price has been hiked" Volume="100" />

<FlowStep.Next>

<FlowStep x:Name="\_\_ReferenceID2" sap2010:WorkflowViewState.IdRef="FlowStep\_7">

<ui:MessageBox Caption="{x:Null}" ChosenButton="{x:Null}" Buttons="Ok" DisplayName="Message Box" sap2010:WorkflowViewState.IdRef="MessageBox\_3" Text="[&quot;Price has been hiked&quot;]" TopMost="True" />

</FlowStep>

</FlowStep.Next>

</FlowStep>

</FlowDecision.False>

</FlowDecision>

</FlowDecision.False>

</FlowDecision>

</Flowchart.StartNode>

<x:Reference>\_\_ReferenceID0</x:Reference>

<x:Reference>\_\_ReferenceID1</x:Reference>

<FlowStep sap2010:WorkflowViewState.IdRef="FlowStep\_8">

<ui:MessageBox Caption="{x:Null}" Buttons="Ok" ChosenButton="[voiceExpect]" DisplayName="Message Box" sap2010:WorkflowViewState.IdRef="MessageBox\_4" Text="[&quot;Expected Price Reached&quot;]" TopMost="True" />

</FlowStep>

<FlowStep sap2010:WorkflowViewState.IdRef="FlowStep\_9">

<ui:MessageBox Caption="{x:Null}" Buttons="Ok" ChosenButton="[voiceExpect]" DisplayName="Message Box" sap2010:WorkflowViewState.IdRef="MessageBox\_5" Text="[&quot;Expected Price Reached&quot;]" TopMost="True" />

</FlowStep>

<FlowStep sap2010:WorkflowViewState.IdRef="FlowStep\_10">

<t:Speech sap2010:WorkflowViewState.IdRef="Speech\_4" Speed="0" Text="[voiceExpect]" Volume="100" />

</FlowStep>

<FlowStep sap2010:WorkflowViewState.IdRef="FlowStep\_11">

<t:Speech sap2010:WorkflowViewState.IdRef="Speech\_5" Speed="0" Text="[voiceExpect]" Volume="100" />

</FlowStep>

<x:Reference>\_\_ReferenceID2</x:Reference>

<x:Reference>\_\_ReferenceID3</x:Reference>

<x:Reference>\_\_ReferenceID4</x:Reference>

<x:Reference>\_\_ReferenceID5</x:Reference>

<x:Reference>\_\_ReferenceID6</x:Reference>

<x:Reference>\_\_ReferenceID7</x:Reference>

<x:Reference>\_\_ReferenceID8</x:Reference>

<x:Reference>\_\_ReferenceID9</x:Reference>

<FlowStep sap2010:WorkflowViewState.IdRef="FlowStep\_26">

<WriteLine DisplayName="Write Line" sap2010:WorkflowViewState.IdRef="WriteLine\_1" Text="[&quot;Dear Customer,&quot;+vbNewLine+&quot;HurryUp!!! The price has been dropped for &lt;b&gt;&quot;+row(0).ToString+&quot;&lt;/b&gt;&quot; +vbNewLine+&quot;The purchase link is &quot; +row(1).ToString]" />

</FlowStep><FlowStep>

<twa:SendSmsMessage AccountSid="{x:Null}" AuthToken="{x:Null}" DisplayName="Send sms message" From="9566390434" Message="[&quot;Dear Customer,&quot;+vbNewLine+&quot;HurryUp!!! The price has been dropped for &lt;b&gt;&quot;+row(0).ToString+&quot;&lt;/b&gt;&quot;+vbNewLine+ &quot;The purchase link is &lt;a href=https://www.amazon.in/&quot;+row(1).ToString+&quot;&gt;Click Here&lt;/a&gt;&quot;]" To="9080644944" sap2010:WorkflowViewState.IdRef="SendSmsMessage\_1" />

<sap2010:WorkflowViewState.IdRef>FlowStep\_27</sap2010:WorkflowViewState.IdRef>

</FlowStep>

</Flowchart>

</Sequence>

</ActivityAction>

</ui:ForEachRow.Body>

</ui:ForEachRow>

</Sequence>

</ActivityAction>

</ui:ForEachRow.Body>

</ui:ForEachRow>

</FlowStep>

</FlowStep.Next>

</FlowStep>

</FlowStep.Next>

</FlowStep>

</FlowStep.Next>

</FlowStep>

</FlowStep.Next>

</FlowStep>

</FlowDecision.False>

</FlowDecision>

</FlowStep.Next>

</FlowStep>

</FlowStep.Next>

</FlowStep>

</Flowchart.StartNode>

<x:Reference>\_\_ReferenceID10</x:Reference>

<x:Reference>\_\_ReferenceID11</x:Reference>

<x:Reference>\_\_ReferenceID12</x:Reference>

<x:Reference>\_\_ReferenceID13</x:Reference>

<x:Reference>\_\_ReferenceID14</x:Reference>

<x:Reference>\_\_ReferenceID15</x:Reference>

<x:Reference>\_\_ReferenceID16</x:Reference>

<x:Reference>\_\_ReferenceID17</x:Reference>

<x:Reference>\_\_ReferenceID18</x:Reference>

</Flowchart>

<sads:DebugSymbol.Symbol></sads:DebugSymbol.Symbol>

</Sequence>

<sap2010:WorkflowViewState.ViewStateManager>

<sap2010:ViewStateManager>

<sap2010:ViewStateData Id="Sequence\_9" sap:VirtualizedContainerService.HintSize="200,99">

<sap:WorkflowViewStateService.ViewState>

<scg:Dictionary x:TypeArguments="x:String, x:Object">

<x:Boolean x:Key="IsExpanded">True</x:Boolean>

</scg:Dictionary>

</sap:WorkflowViewStateService.ViewState>

</sap2010:ViewStateData>

<sap2010:ViewStateData Id="OpenBrowser\_1" sap:VirtualizedContainerService.HintSize="200,51" />

<sap2010:ViewStateData Id="GetFullText\_1" sap:VirtualizedContainerService.HintSize="314,106" />

<sap2010:ViewStateData Id="Sequence\_7" sap:VirtualizedContainerService.HintSize="336,230">

<sap:WorkflowViewStateService.ViewState>

<scg:Dictionary x:TypeArguments="x:String, x:Object">

<x:Boolean x:Key="IsExpanded">True</x:Boolean>

</scg:Dictionary>

</sap:WorkflowViewStateService.ViewState>

</sap2010:ViewStateData>

<sap2010:ViewStateData Id="BrowserScope\_2" sap:VirtualizedContainerService.HintSize="414,376" />

<sap2010:ViewStateData Id="Sequence\_8" sap:VirtualizedContainerService.HintSize="200,51">

<sap:WorkflowViewStateService.ViewState>

<scg:Dictionary x:TypeArguments="x:String, x:Object">

<x:Boolean x:Key="IsExpanded">True</x:Boolean>

</scg:Dictionary>

</sap:WorkflowViewStateService.ViewState>

</sap2010:ViewStateData>

<sap2010:ViewStateData Id="TerminateWorkflow\_1" sap:VirtualizedContainerService.HintSize="200,22">

<sap:WorkflowViewStateService.ViewState>

<scg:Dictionary x:TypeArguments="x:String, x:Object">

<x:Boolean x:Key="IsExpanded">True</x:Boolean>

</scg:Dictionary>

</sap:WorkflowViewStateService.ViewState>

</sap2010:ViewStateData>

<sap2010:ViewStateData Id="FlowStep\_1">

<sap:WorkflowViewStateService.ViewState>

<scg:Dictionary x:TypeArguments="x:String, x:Object">

<av:Point x:Key="ShapeLocation">20,499</av:Point>

<av:Size x:Key="ShapeSize">200,22</av:Size>

</scg:Dictionary>

</sap:WorkflowViewStateService.ViewState>

</sap2010:ViewStateData>

<sap2010:ViewStateData Id="Click\_1" sap:VirtualizedContainerService.HintSize="200,51">

<sap:WorkflowViewStateService.ViewState>

<scg:Dictionary x:TypeArguments="x:String, x:Object">

<x:Boolean x:Key="IsExpanded">True</x:Boolean>

</scg:Dictionary>

</sap:WorkflowViewStateService.ViewState>

</sap2010:ViewStateData>

<sap2010:ViewStateData Id="ExtractData\_1" sap:VirtualizedContainerService.HintSize="314,106" />

<sap2010:ViewStateData Id="Sequence\_1" sap:VirtualizedContainerService.HintSize="336,230">

<sap:WorkflowViewStateService.ViewState>

<scg:Dictionary x:TypeArguments="x:String, x:Object">

<x:Boolean x:Key="IsExpanded">True</x:Boolean>

</scg:Dictionary>

</sap:WorkflowViewStateService.ViewState>

</sap2010:ViewStateData>

<sap2010:ViewStateData Id="BrowserScope\_1" sap:VirtualizedContainerService.HintSize="414,376" />

<sap2010:ViewStateData Id="Sequence\_2" sap:VirtualizedContainerService.HintSize="200,51">

<sap:WorkflowViewStateService.ViewState>

<scg:Dictionary x:TypeArguments="x:String, x:Object">

<x:Boolean x:Key="IsExpanded">True</x:Boolean>

</scg:Dictionary>

</sap:WorkflowViewStateService.ViewState>

</sap2010:ViewStateData>

<sap2010:ViewStateData Id="ExcelWriteRange\_1" sap:VirtualizedContainerService.HintSize="314,87" />

<sap2010:ViewStateData Id="Sequence\_3" sap:VirtualizedContainerService.HintSize="336,211">

<sap:WorkflowViewStateService.ViewState>

<scg:Dictionary x:TypeArguments="x:String, x:Object">

<x:Boolean x:Key="IsExpanded">True</x:Boolean>

</scg:Dictionary>

</sap:WorkflowViewStateService.ViewState>

</sap2010:ViewStateData>

<sap2010:ViewStateData Id="ExcelApplicationScope\_1" sap:VirtualizedContainerService.HintSize="200,51">

<sap:WorkflowViewStateService.ViewState>

<scg:Dictionary x:TypeArguments="x:String, x:Object">

<x:Boolean x:Key="IsExpanded">True</x:Boolean>

</scg:Dictionary>

</sap:WorkflowViewStateService.ViewState>

</sap2010:ViewStateData>

<sap2010:ViewStateData Id="ExcelReadRange\_1" sap:VirtualizedContainerService.HintSize="314,59" />

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**CHAPTER 11**

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