Web Automation to book Hotels using RPA

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4. Kishore M[711716104045]

Faculty Guide : Ms.K.Poongothai
Assistant Professor
Department of CSE

Industrial Guide :Mr.Nithin

Agenda

- Abstract
- Objective & Outcome
- Introduction
- Area introduction - existing system
- Literature Survey
- Architectural Diagram
- Flow chart
- Data flow diagrams
- Proposed system
- Module split-up
- Screenshots

Abstract

- In web automation to book hotels, the manually done web source contents are entered automatically through RPA.
- Here we also automate the process of searching for hotels, scraping the contents and generate a list based on the requirements of the user entered.
- The requirements of the user is obtained by predefined filters list and from that the agent chooses rooms based on budget and comfort, then the check for availability of the rooms is to confirm and it is notified to the customers by agents.

Objective & Outcome

Objective:

The Objective of the project is to develop a system that automates the process and activities of a hotel booking.

Outcome:

Customer can decide about places they want to visit and make hotel bookings through online for staying and accommodation.

Introduction of RPA

- Robotic Process Automation(RPA) is a software-based technology utilizing software robots to emulate human execution of a business process. RPA captures data, runs applications, triggers responses, and communicates with other systems to perform a variety of tasks - Uipath.
- RPA doesn't require programming skills. Employees with any subject expertise can be trained to automate RPA tools instantly.

- Any interaction between a human and a computer can be automated. However, processes with repeatable, predictable interactions with IT applications are best suited for RPA. Automation can improve the effectiveness and efficiency of these processes without changing the underlining systems.

Area Introduction-Existing system

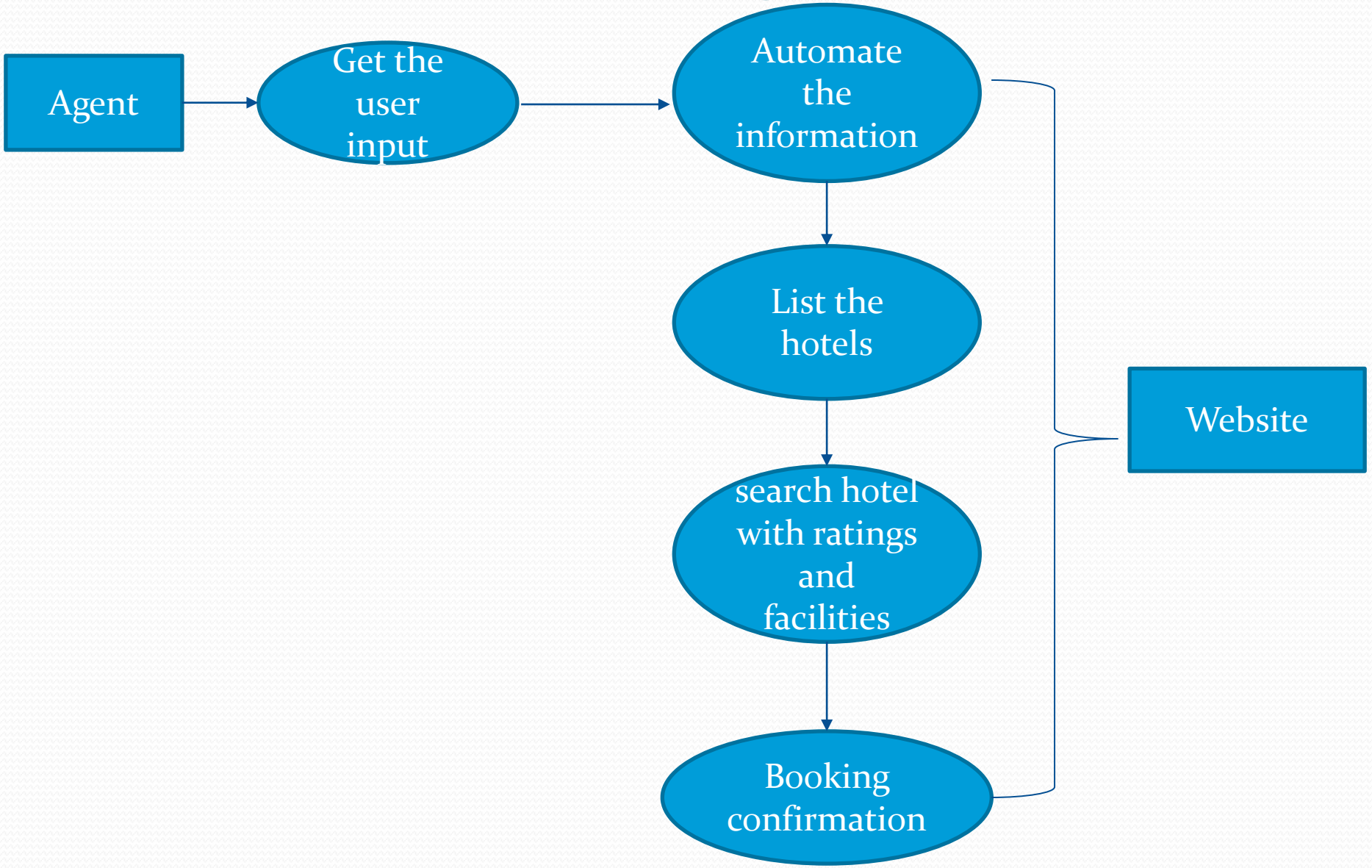
- Recent studies report the benefit of the application of RPA in terms of productivity, costs ,speed and error reduction.
- The previous techniques were proposed to make hotels booking through web.
- Checking for availability of rooms at various hotels are not maintained effectively through direct automation techniques.

Literature Survey

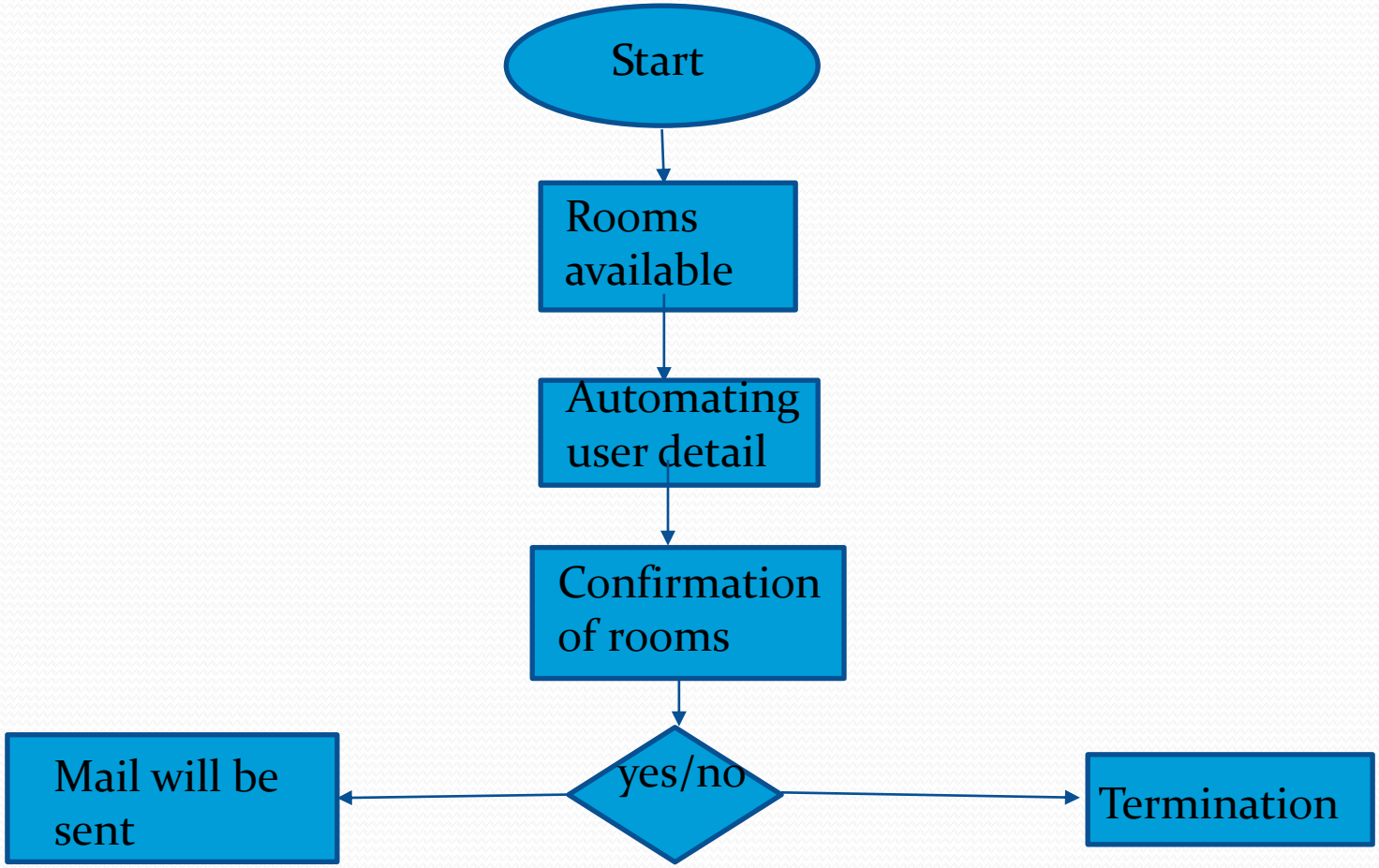
Title	Publication year	Publisher	Description
Online Hotel Reservation System	1973	Richard Bemile	It is a computerized system that stores and distributes information of a hotel, resort or other lodging facilities.
Consumer's Preferred Criteria for Hotel Online Booking	2007	Marcussen	The most commonly featured attributes are star rating, price, location/map, photographs of the rooms and the hotel, information about the rooms, and facilities, information on the surrounding area.

Consequences of Customer Confusion in Online Hotel Booking	**2004**	Mitchell	Relatively new concept in **consumer** behavior research. Increasingly, consumers get swamped by a large variety of opportunities to choose.
Online computerized Hotel Management System	2014	Ogirimsa	Booking a hotel online is not only fast as well as convenient but also very cheap.

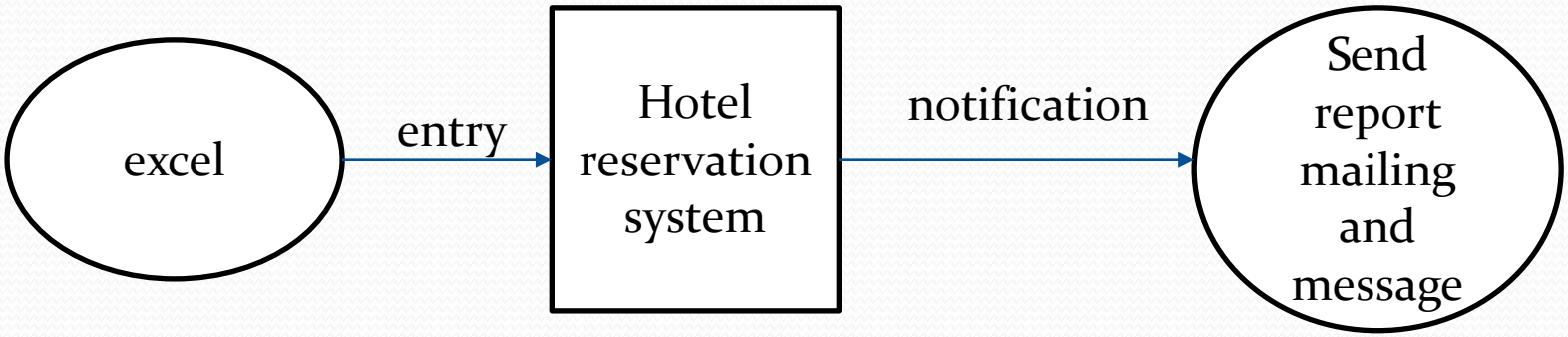
Architectural Diagram



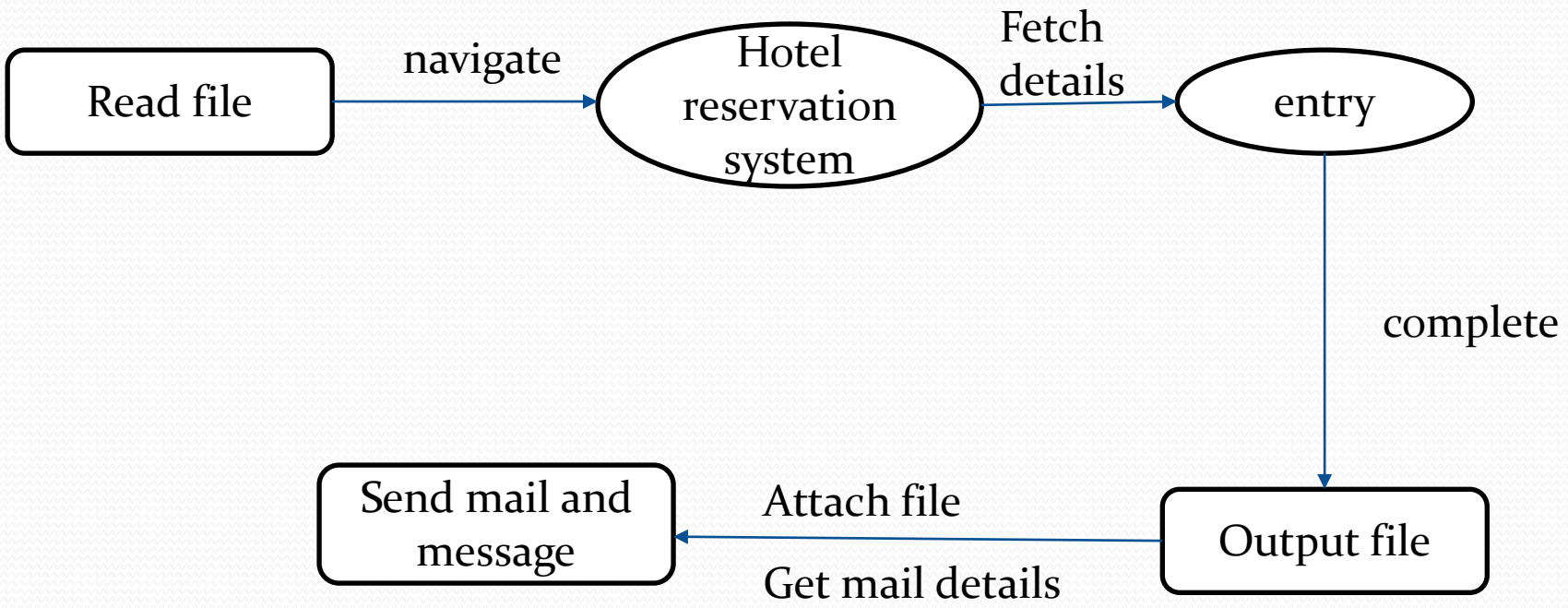
Flow chart


Start
Rooms available
Automating user detail
Confirmation of rooms
yes/no
Mail will be sent
Termination

Data Flow Diagram Level 0



Data Flow Diagram Level 1



Proposed System

Advantages over existing methods:

- propose a new technique for up to-date rooms available in various hotels.
- In addition, there is confirmation mails and which is sent after the confirmation of rooms booking.

Future enhancements:

The user querying facilities about the hotels booking is automated and may with the voice automation.

Literature Review

Drawbacks of existing methods

- IT costs.
- Customer loyalty.
- Customer acquisition.

Reference:

hotels.com

makemytrip.com

Module Splitup

Module 1:

- Get the user information using excel.

Module 2:

- Filtering the contents and generate lists.

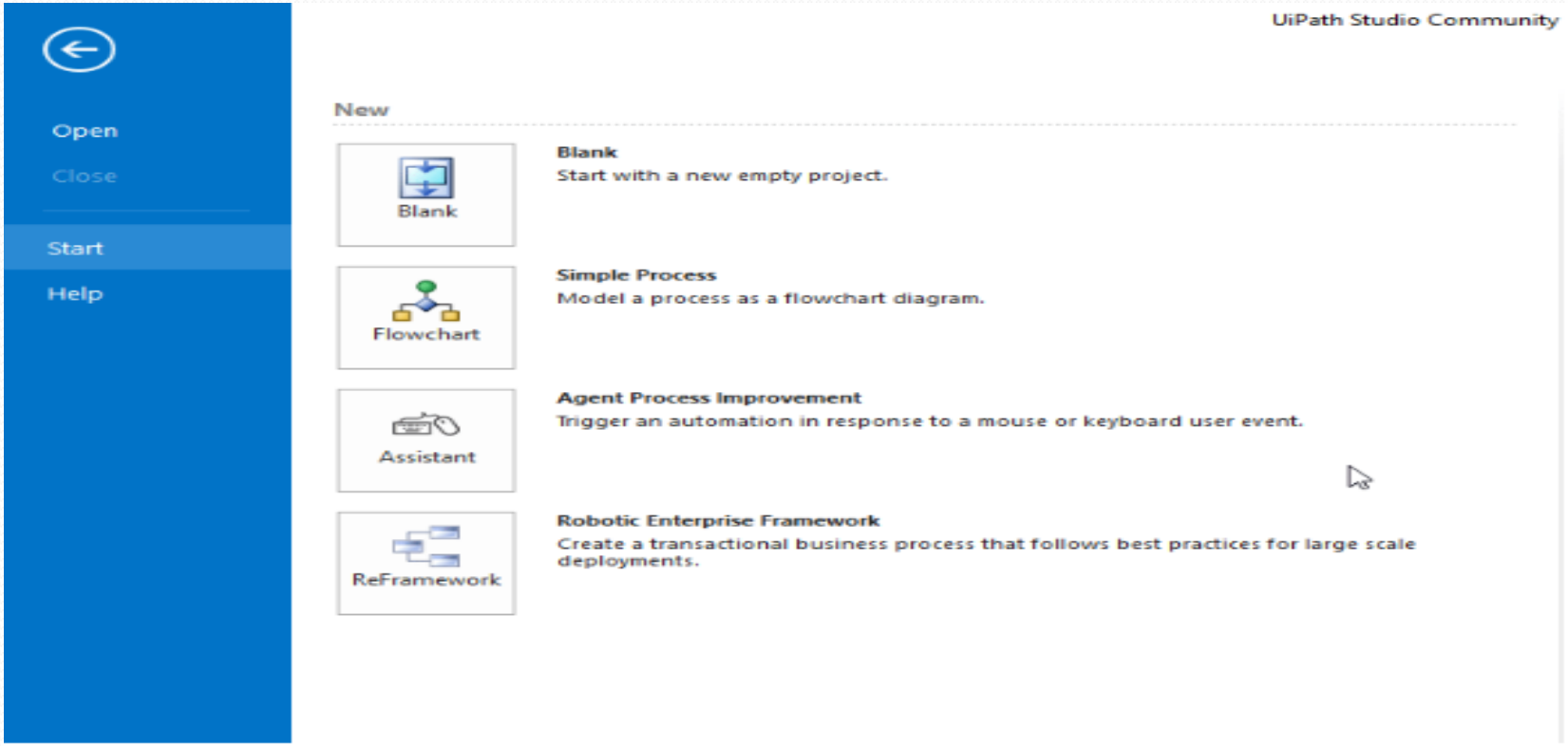
Module 3:

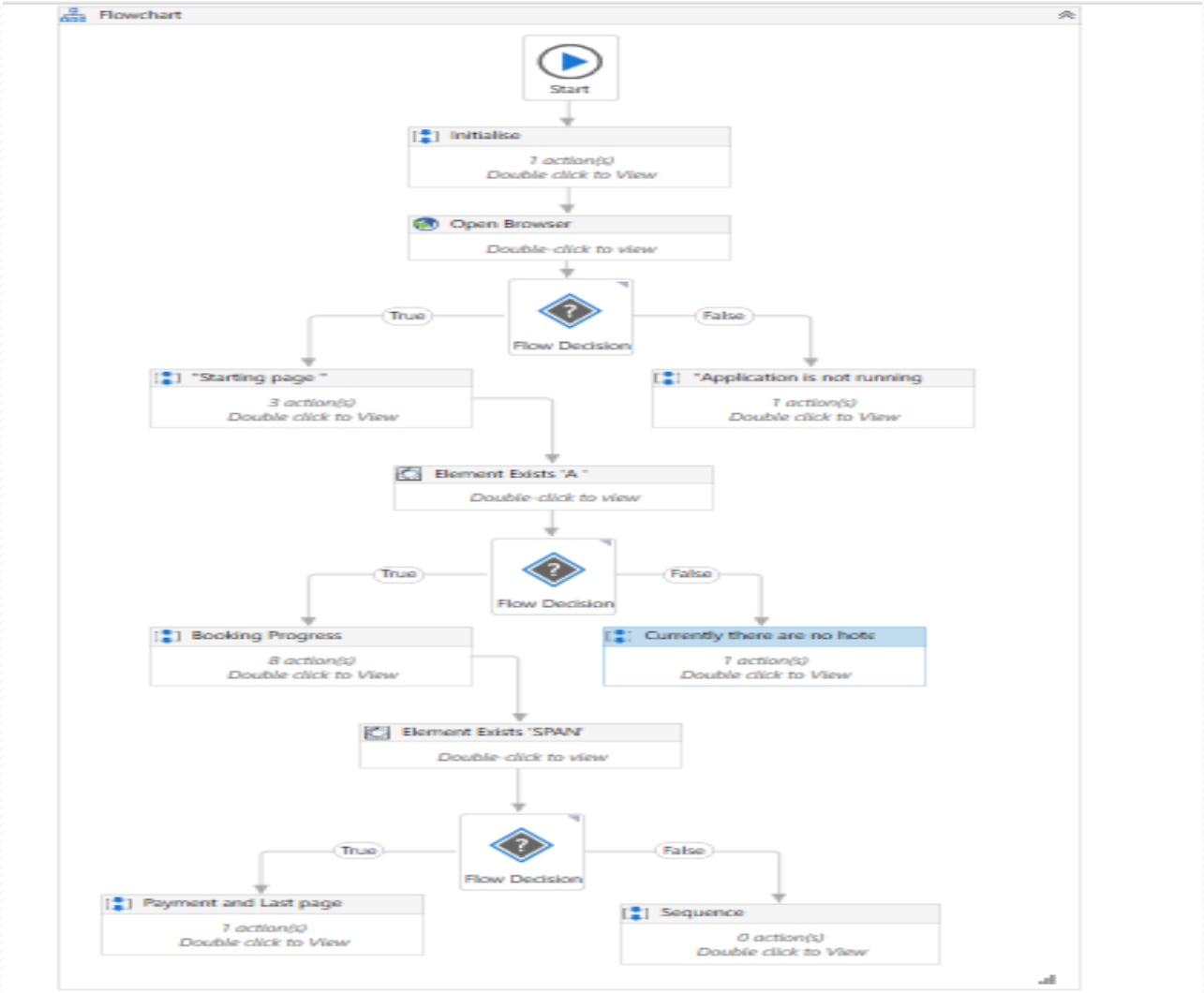
- Automating the booking process.
- Up to-date details of room availability.

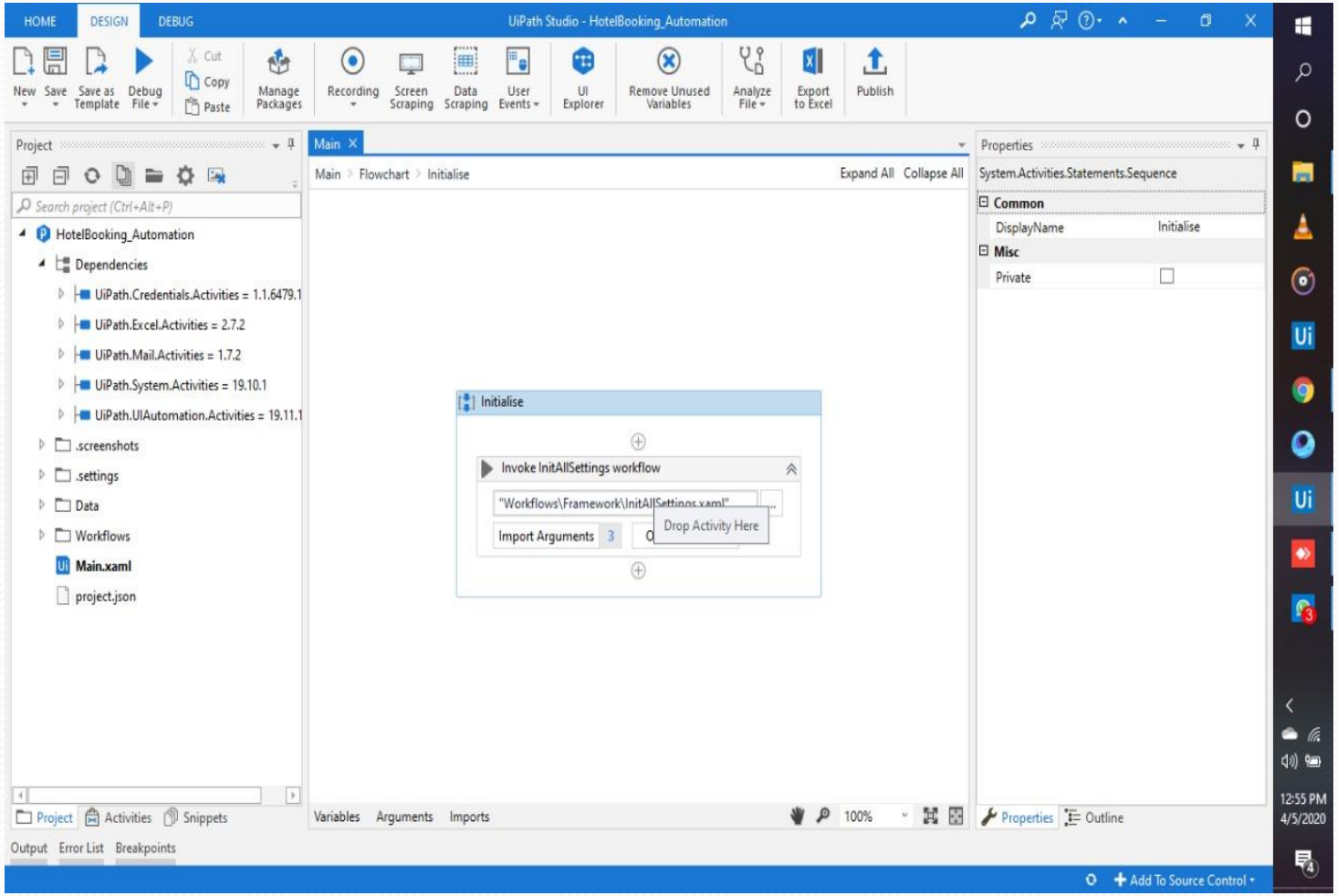
Module 4:

- Confirmation process .

Screenshot –Uipath studio




Flowchart
Start
Initialise
1 action(s)
Double click to View
Open Browser
Double-click to view
True
False
Flow Decision
"Starting page "
3 action(s)
Double click to View
"Application is not running
1 action(s)
Double click to View
Element Exists 'A '
Double-click to view
True
False
Flow Decision
Booking Progress
8 action(s)
Double click to View
Currently there are no hote
1 action(s)
Double click to View
Element Exists 'SPAN'
Double-click to view
True
False
Flow Decision
Payment and Last page
1 action(s)
Double click to View
Sequence
0 action(s)
Double click to View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DESIGN
DEBUG
UiPath Studio - HotelBooking_Automation
New
Save
Save as Template
Debug File
Cut
Copy
Paste
Manage Packages
Recording
Screen Scraping
Data Scraping
User Events
UI Explorer
Remove Unused Variables
Analyze File
Export to Excel
Publish
Project
Search project (Ctrl+Alt+P)
HotelBooking_Automation
Dependencies
UiPath.Credentials.Activities = 1.1.6479.1
UiPath.Excel.Activities = 2.7.2
UiPath.Mail.Activities = 1.7.2
UiPath.System.Activities = 19.10.1
UiPath.UIAutomation.Activities = 19.11.1
.screenshots
.settings
Data
Workflows
Main.xaml
project.json
Main
Main > Flowchart > Initialise
Expand All
Collapse All
Initialise
Invoke InitAllSettings workflow
"Workflows\Framework\InitAllSettings.xaml"
Import Arguments
3
Drop Activity Here
Properties
System.Activities.Statements.Sequence
Common
DisplayName
Initialise
Misc
Private
Project
Activities
Snippets
Variables
Arguments
Imports
100%
Properties
Outline
Output
Error List
Breakpoints
Add To Source Control
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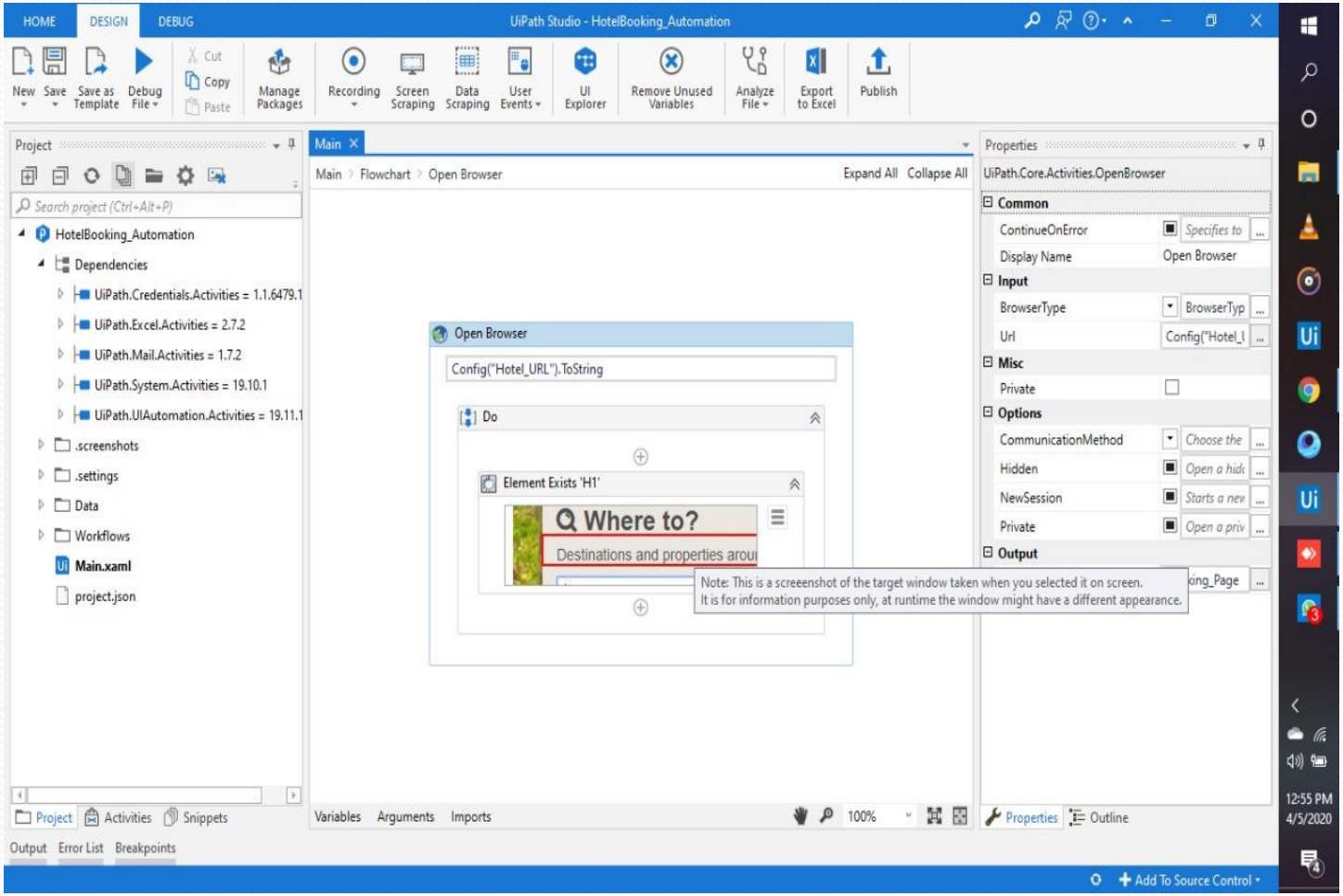
4/5/2020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UiPath.UIAutomation.Activities = 19.11.1
.screenshots
.settings
Data
Workflows
Main.xaml
project.json
Main
Main > Flowchart > Open Browser
Expand All
Collapse All
Open Browser
Config("Hotel_URL").ToString
Do
Element Exists 'H1'
Where to?
Destinations and properties arou
Note: This is a screeenshot of the target window taken when you selected it on screen.
It is for information purposes only, at runtime the window might have a different appearance.
Properties
UiPath.Core.Activities.OpenBrowser
Common
ContinueOnError
Specifies to
Display Name
Open Browser
Input
BrowserType
BrowserTyp
Url
Config("Hotel_I
Misc
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Options
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Hidden
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NewSession
Starts a new
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Open a priv
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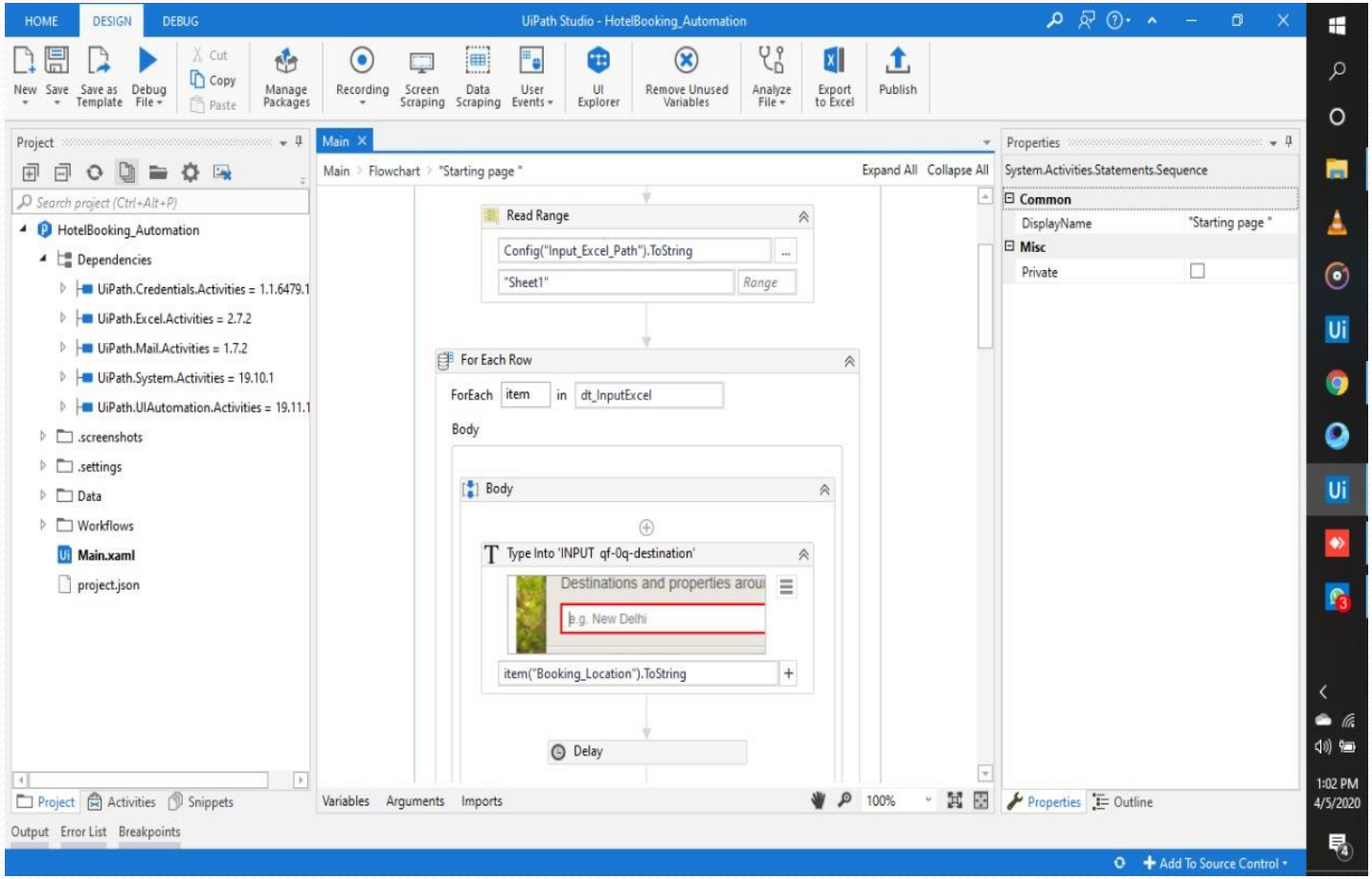
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Analyze File
Export to Excel
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.settings
Data
Workflows
Main.xaml
project.json
Main
Main > Flowchart > "Starting page "
Expand All
Collapse All
Read Range
Config("Input_Excel_Path").ToString
"Sheet1"
Range
For Each Row
ForEach item in dt_InputExcel
Body
Body
Type Into 'INPUT qf-0q-destination'
Destinations and properties arou
e.g. New Delhi
item("Booking_Location").ToString
Delay
Properties
System.Activities.Statements.Sequence
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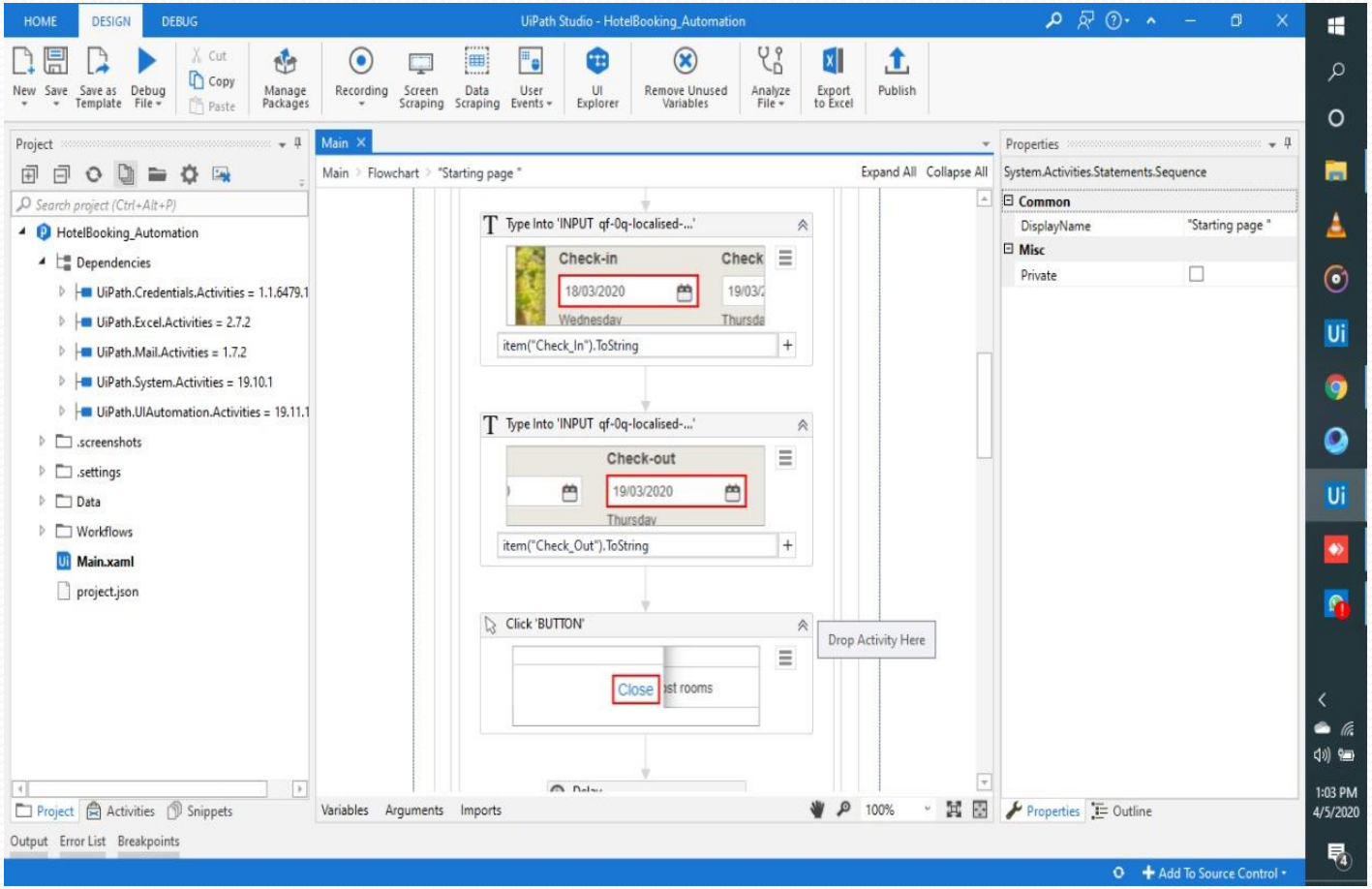
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Main.xaml
project.json
Main
Main > Flowchart > "Starting page "
Expand All
Collapse All
Type Into 'INPUT qf-0q-localised-...'
Check-in
18/03/2020
Wednesday
item("Check_In").ToString
Type Into 'INPUT qf-0q-localised-...'
Check-out
19/03/2020
Thursday
item("Check_Out").ToString
Click 'BUTTON'
Close
Drop Activity Here
Properties
System.Activities.Statements.Sequence
Common
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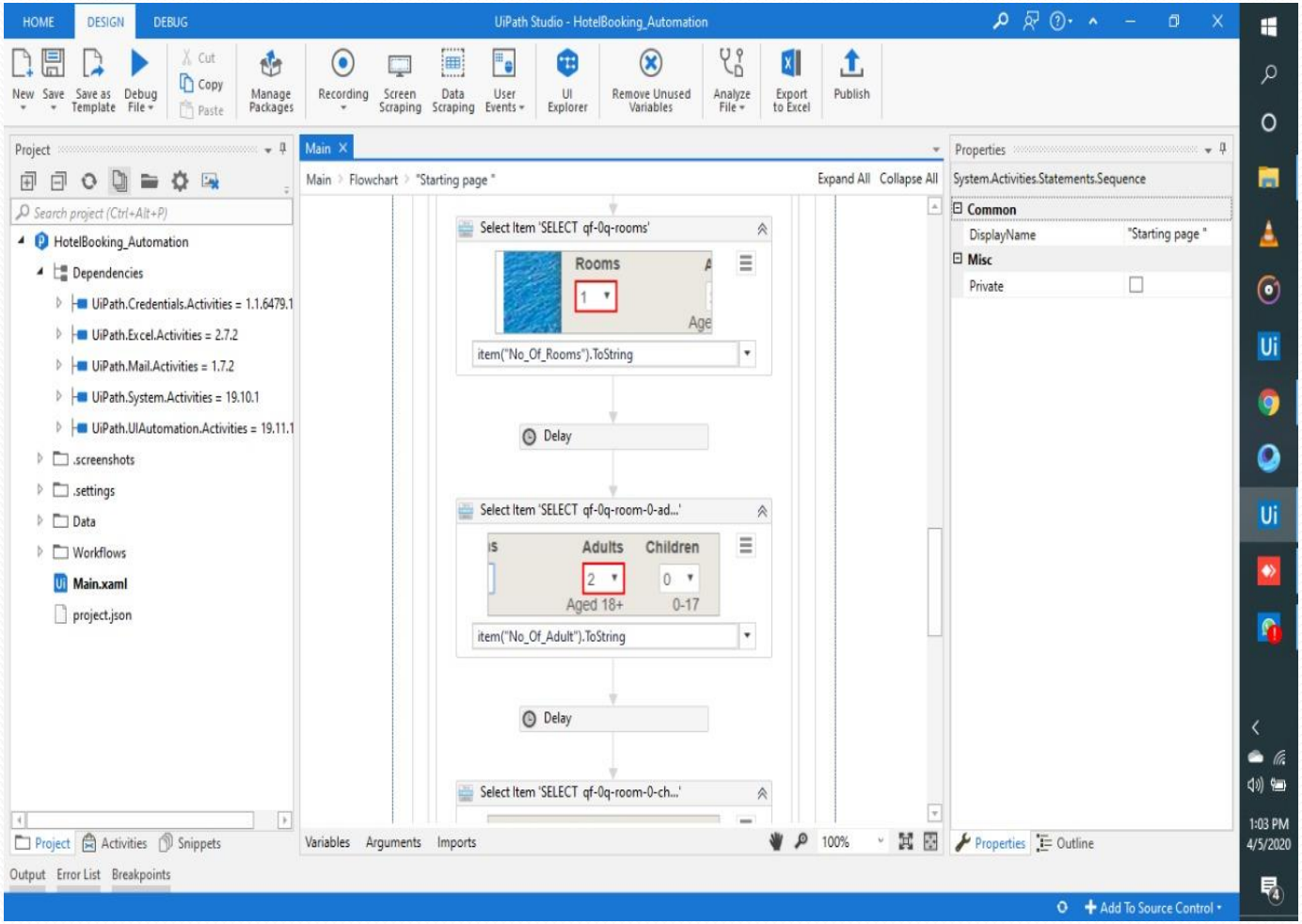
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Main > Flowchart > "Starting page "
Expand All
Collapse All
Select Item 'SELECT qf-0q-rooms'
Rooms
1
Age
item("No_Of_Rooms").ToString
Delay
Select Item 'SELECT qf-0q-room-0-ad...'
Adults
Children
2
0
Aged 18+
0-17
item("No_Of_Adult").ToString
Delay
Select Item 'SELECT qf-0q-room-0-ch...'
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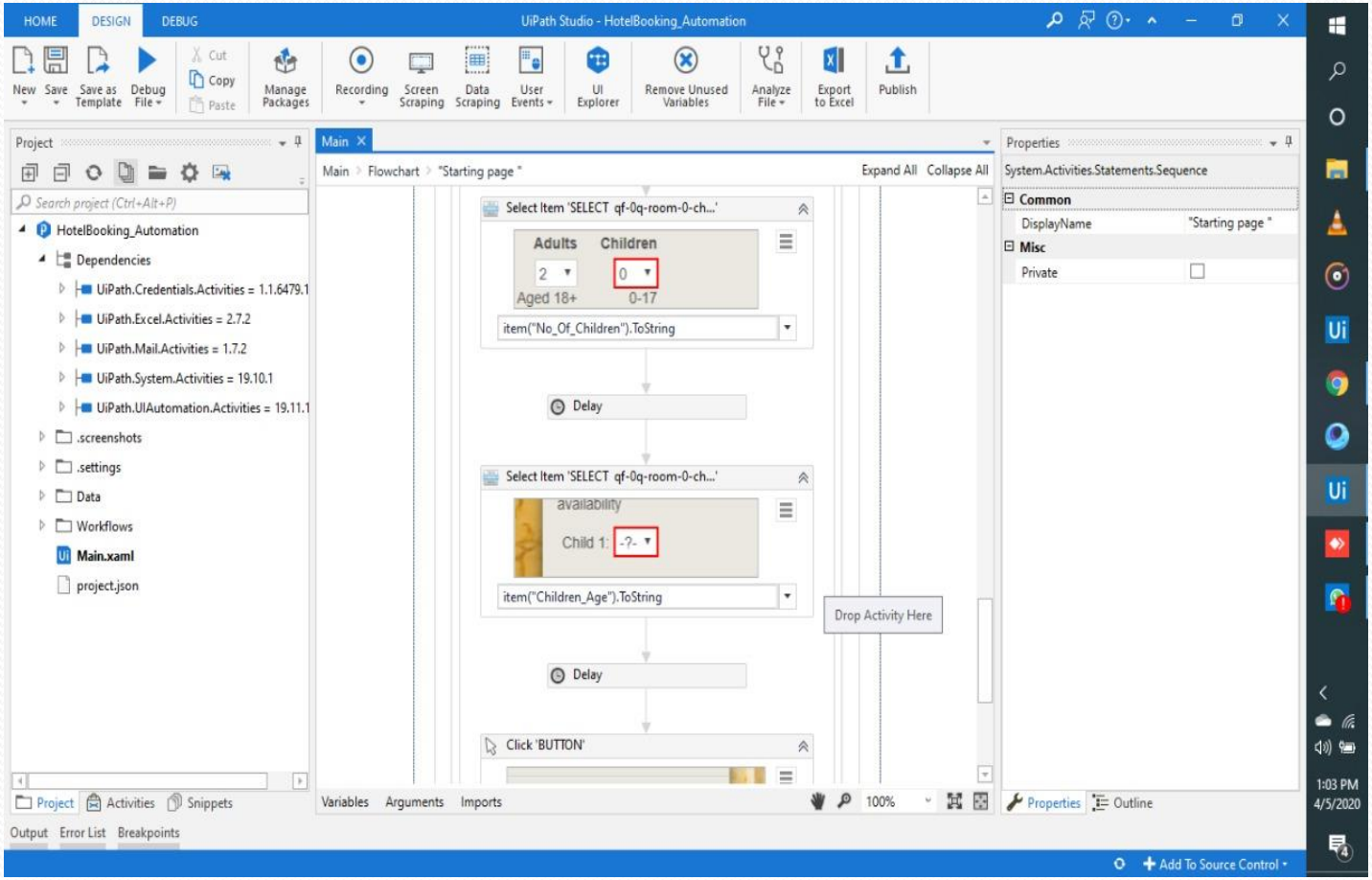
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Main
Main > Flowchart > "Starting page "
Expand All
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Select Item 'SELECT qf-0q-room-0-ch...'
Adults
Children
2
0
Aged 18+
0-17
item("No_Of_Children").ToString
Delay
Select Item 'SELECT qf-0q-room-0-ch...'
availability
Child 1:
-?-
item("Children_Age").ToString
Drop Activity Here
Delay
Click 'BUTTON'
Properties
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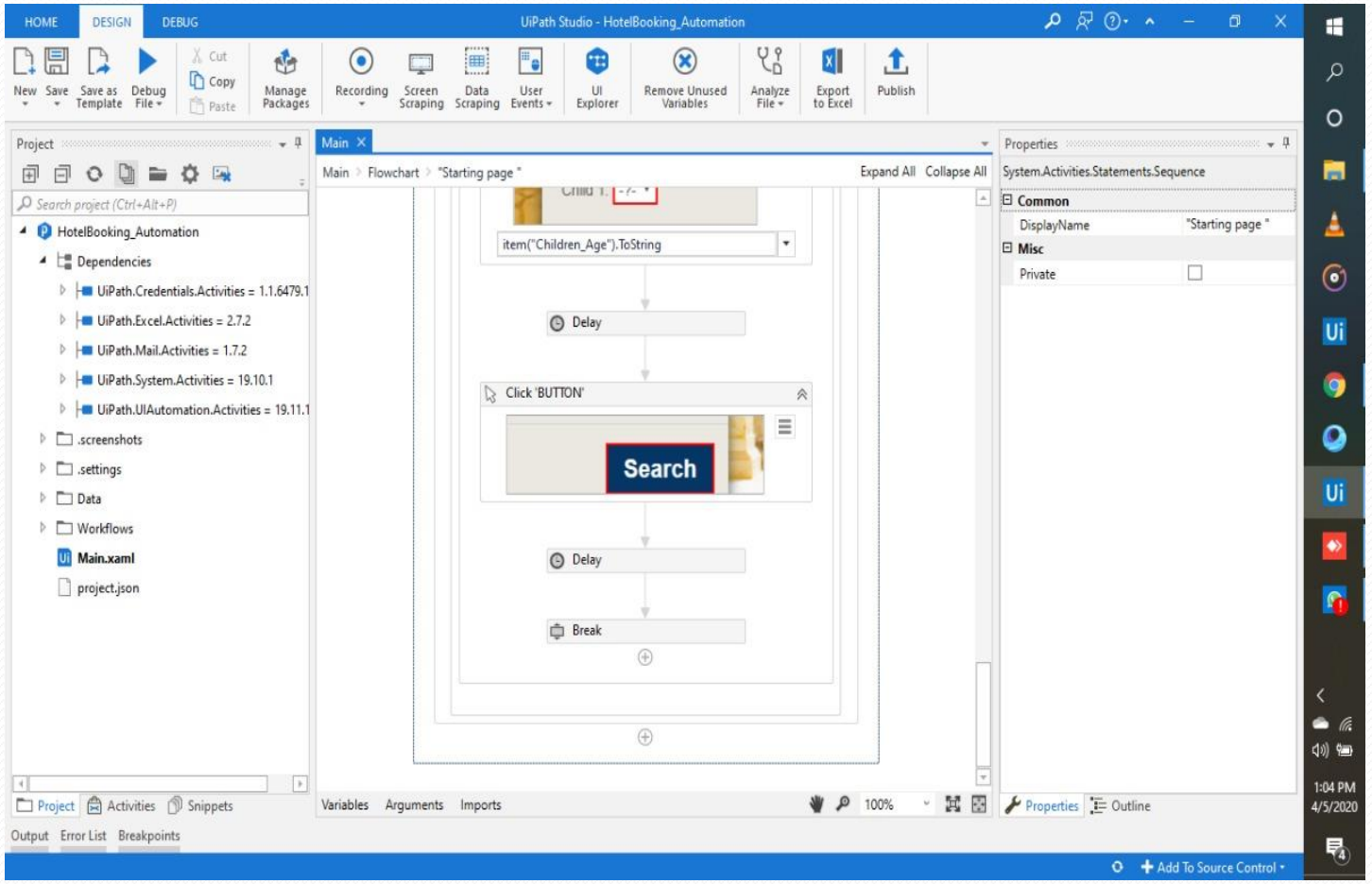
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Workflows
Main.xaml
project.json
Main
Main > Flowchart > "Starting page "
Expand All
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item("Children_Age").ToString
Delay
Click 'BUTTON'
Search
Delay
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Properties
System.Activities.Statements.Sequence
Common
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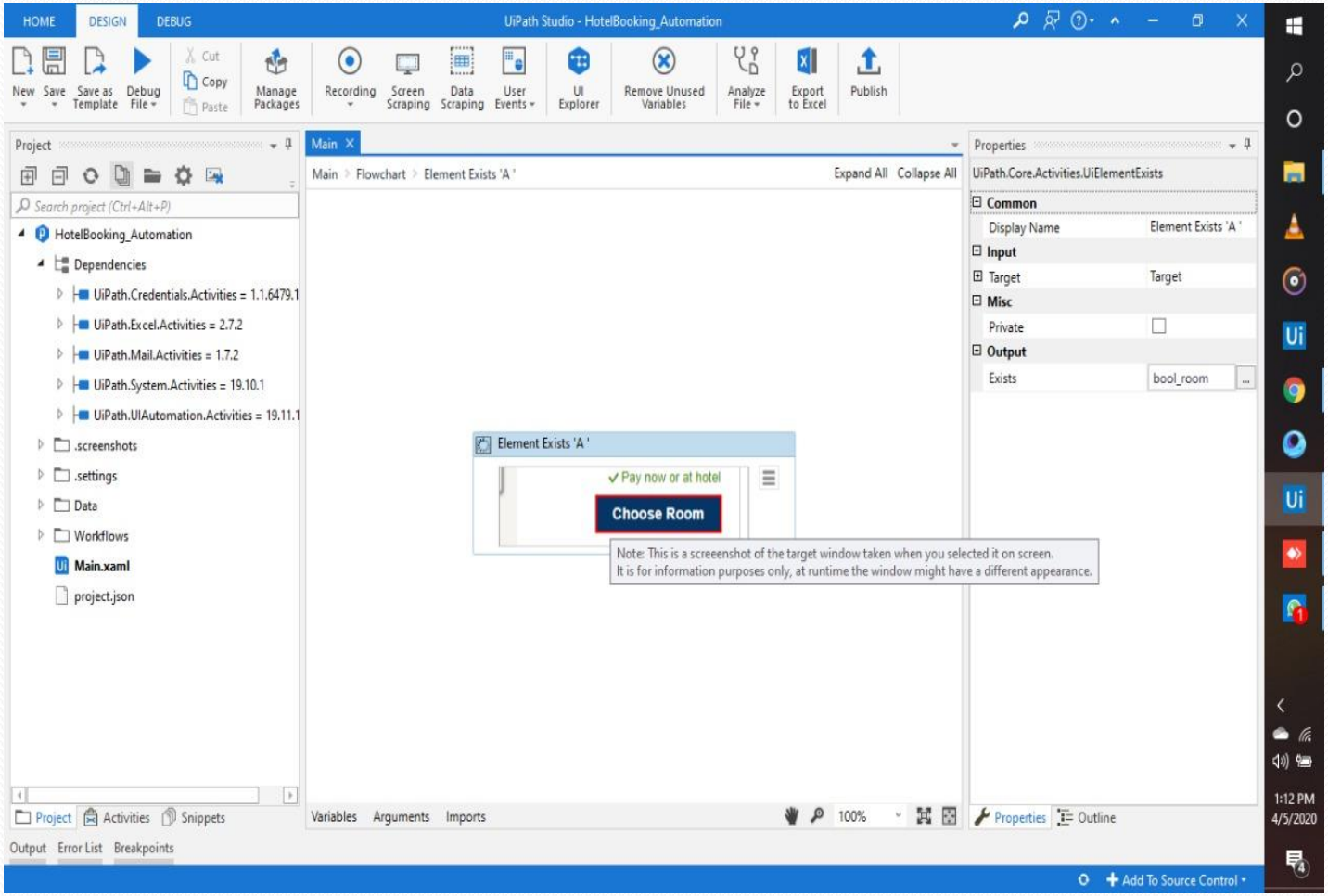
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UiPath.System.Activities = 19.10.1
UiPath.UIAutomation.Activities = 19.11.1
.screenshots
.settings
Data
Workflows
Main.xaml
project.json
Main
Main > Flowchart > Element Exists 'A '
Expand All
Collapse All
Element Exists 'A '
Pay now or at hotel
Choose Room
Note: This is a screeenshot of the target window taken when you selected it on screen.
It is for information purposes only, at runtime the window might have a different appearance.
Properties
UiPath.Core.Activities.UiElementExists
Common
Display Name
Element Exists 'A '
Input
Target
Target
Misc
Private
Output
Exists
bool_room
Project
Activities
Snippets
Variables
Arguments
Imports
100%
Properties
Outline
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Error List
Breakpoints
Add To Source Control
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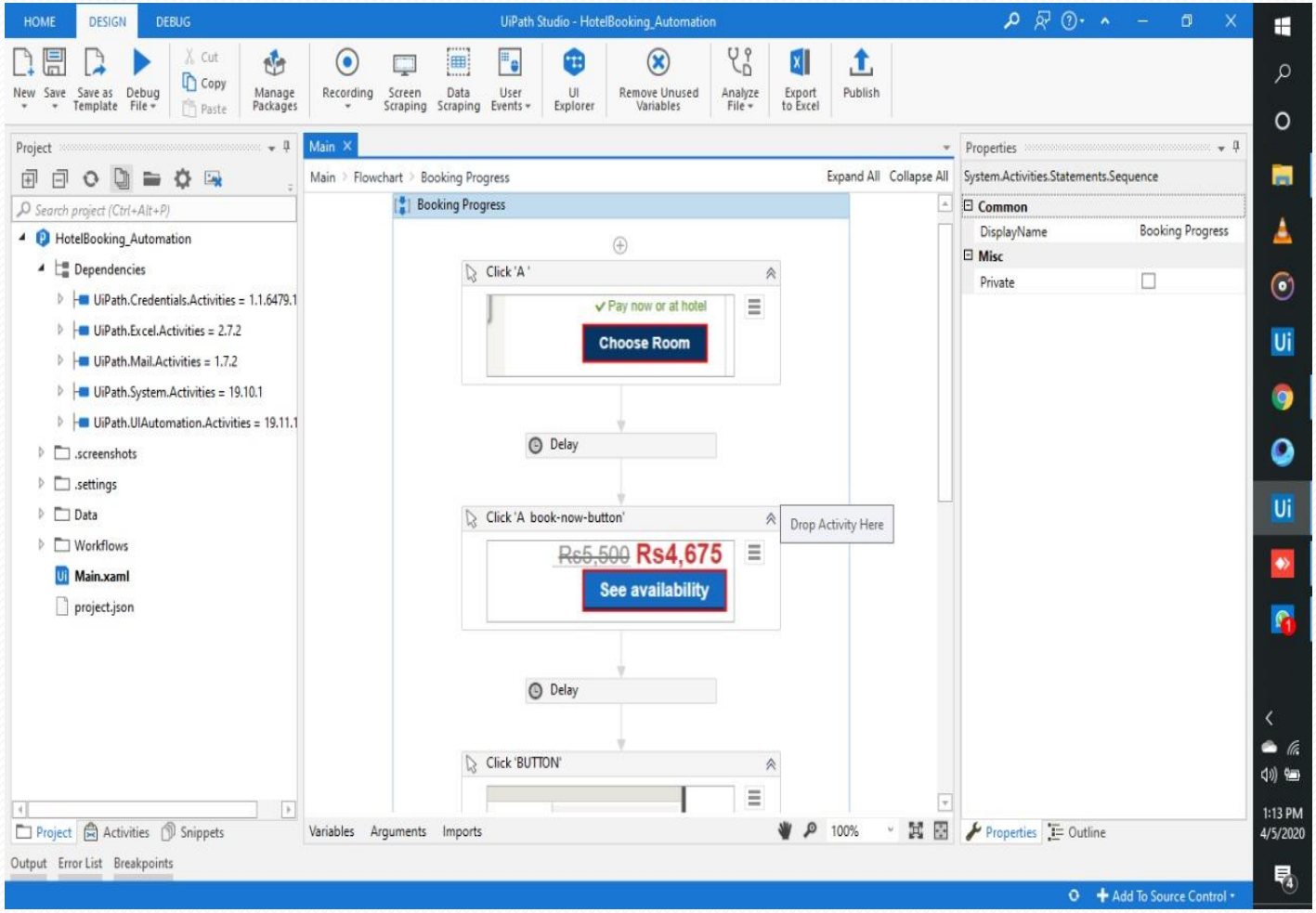
HOME
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UiPath Studio - HotelBooking_Automation
New
Save
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Debug File
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Paste
Manage Packages
Recording
Screen Scraping
Data Scraping
User Events
UI Explorer
Remove Unused Variables
Analyze File
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Search project (Ctrl+Alt+P)
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UiPath.Excel.Activities = 2.7.2
UiPath.Mail.Activities = 1.7.2
UiPath.System.Activities = 19.10.1
UiPath.UIAutomation.Activities = 19.11.1
.screenshots
.settings
Data
Workflows
Main.xaml
project.json
Main
Main > Flowchart > Booking Progress
Expand All
Collapse All
Booking Progress
Click 'A '
Pay now or at hotel
Choose Room
Delay
Click 'A book-now-button'
Drop Activity Here
Rs5,500 Rs4,675
See availability
Delay
Click 'BUTTON'
Properties
System.Activities.Statements.Sequence
Common
DisplayName
Booking Progress
Misc
Private
Project
Activities
Snippets
Variables
Arguments
Imports
100%
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Outline
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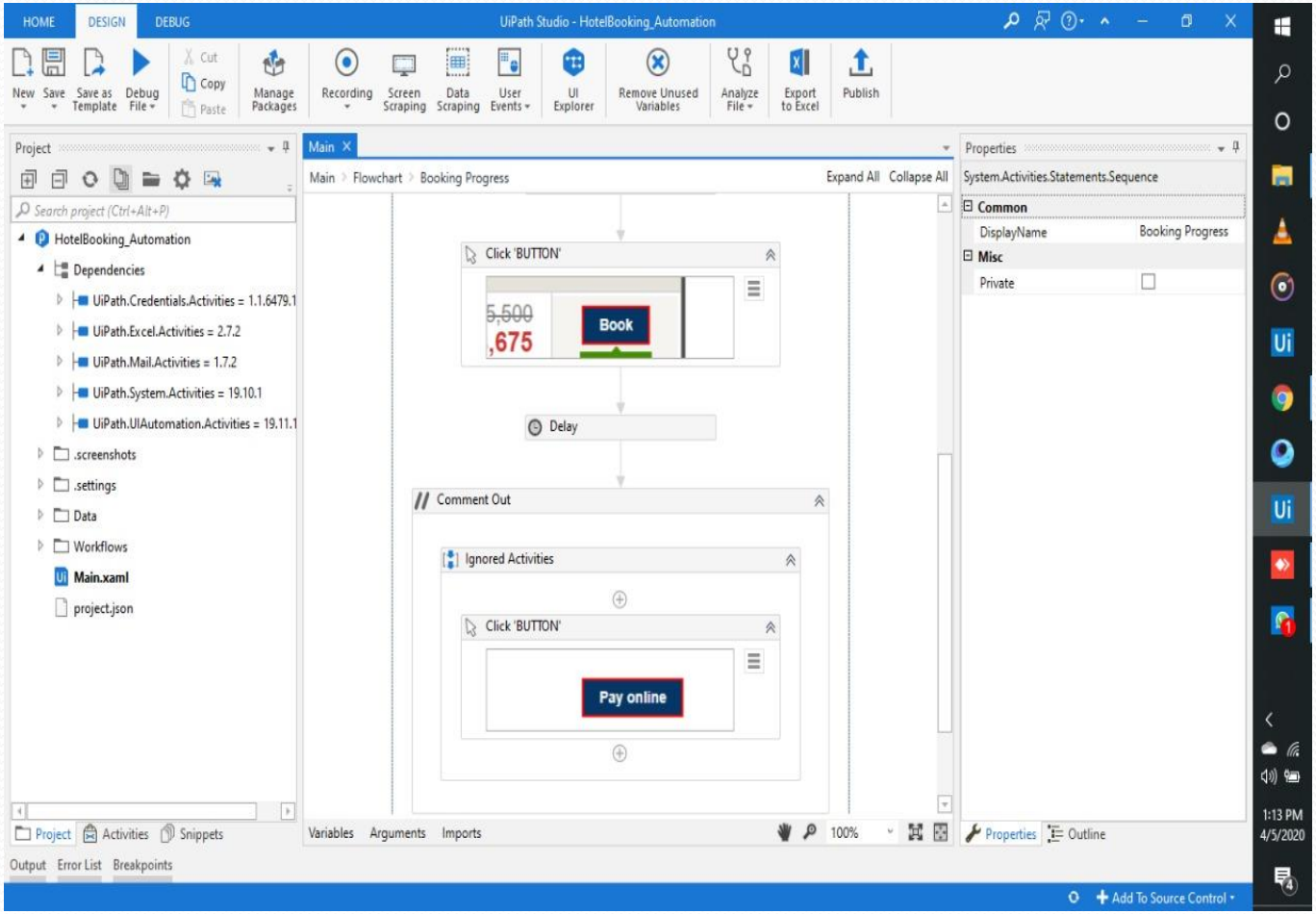
4/5/2020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.screenshots
.settings
Data
Workflows
Main.xaml
project.json
Main
Main > Flowchart > Booking Progress
Expand All
Collapse All
Click 'BUTTON'
5,500
,675
Book
Delay
Comment Out
Ignored Activities
Click 'BUTTON'
Pay online
Properties
System.Activities.Statements.Sequence
Common
DisplayName
Booking Progress
Misc
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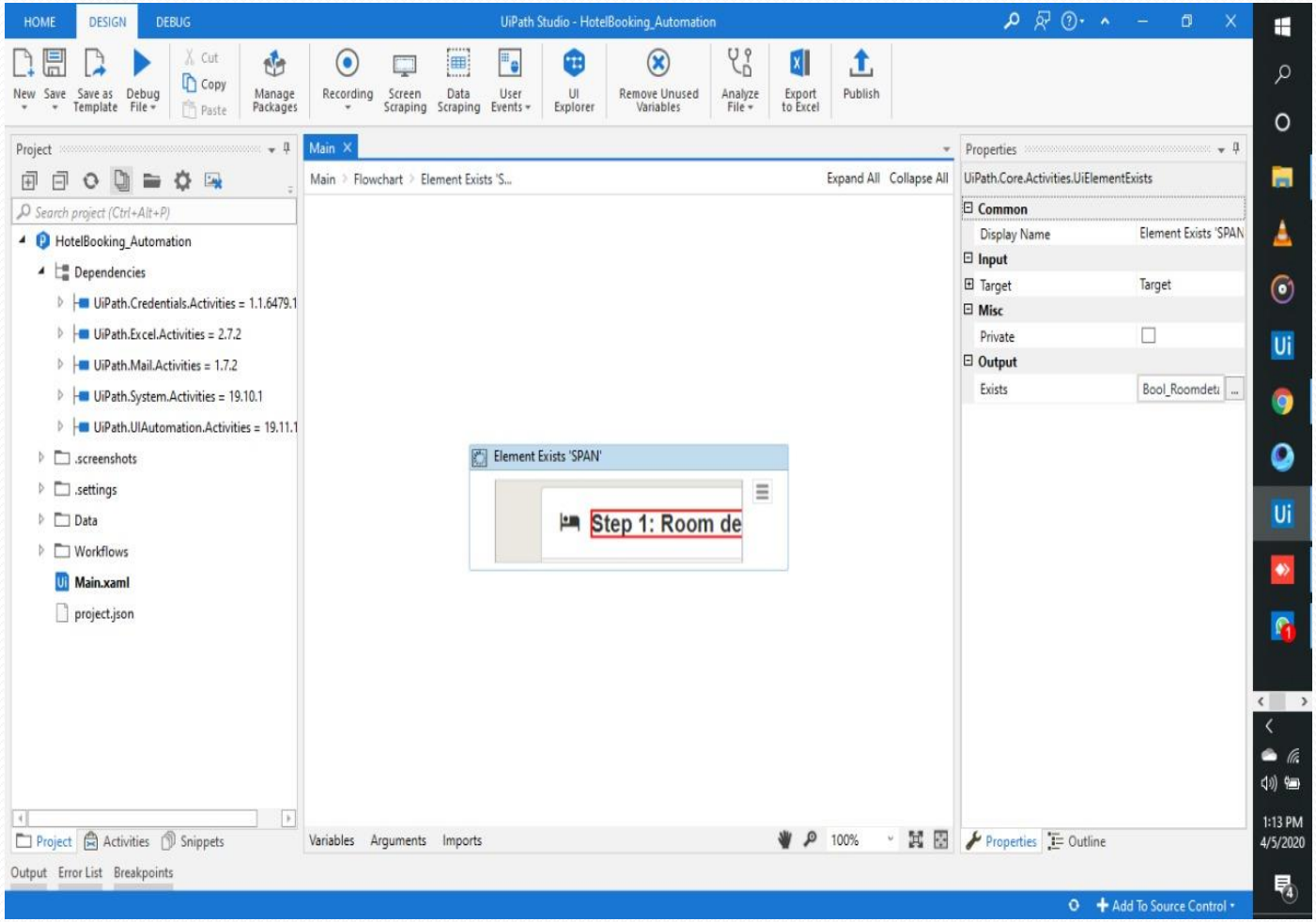
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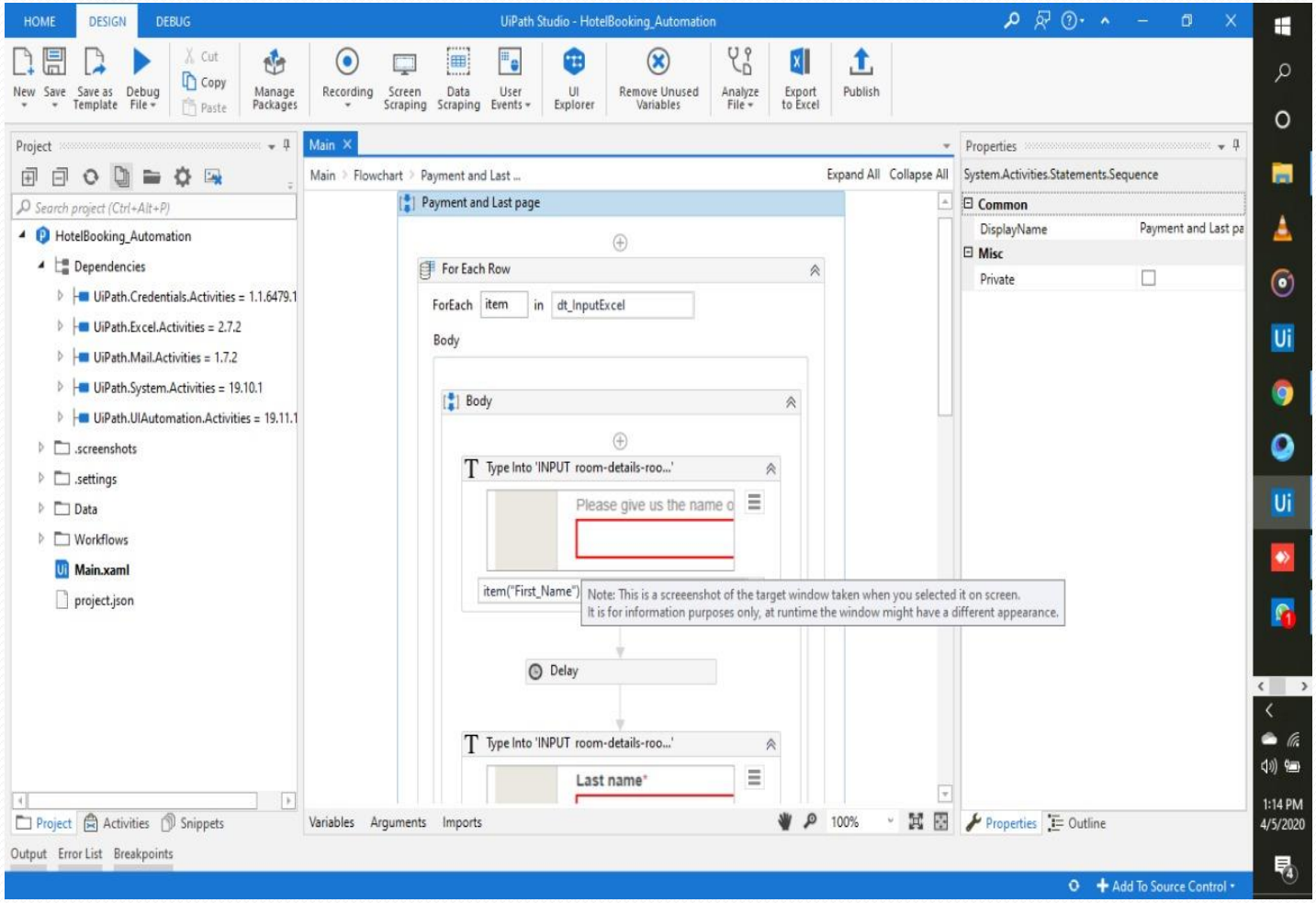
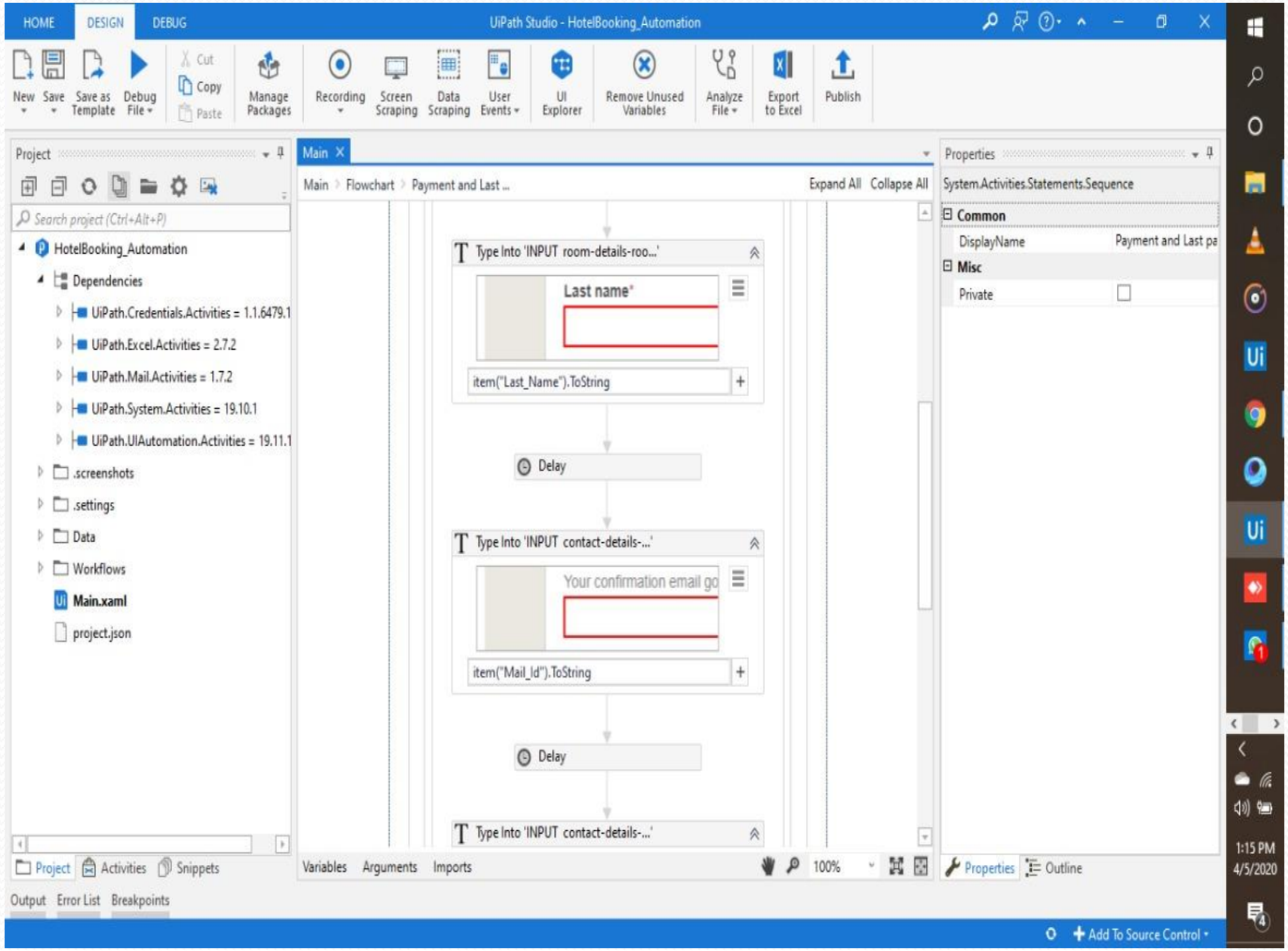
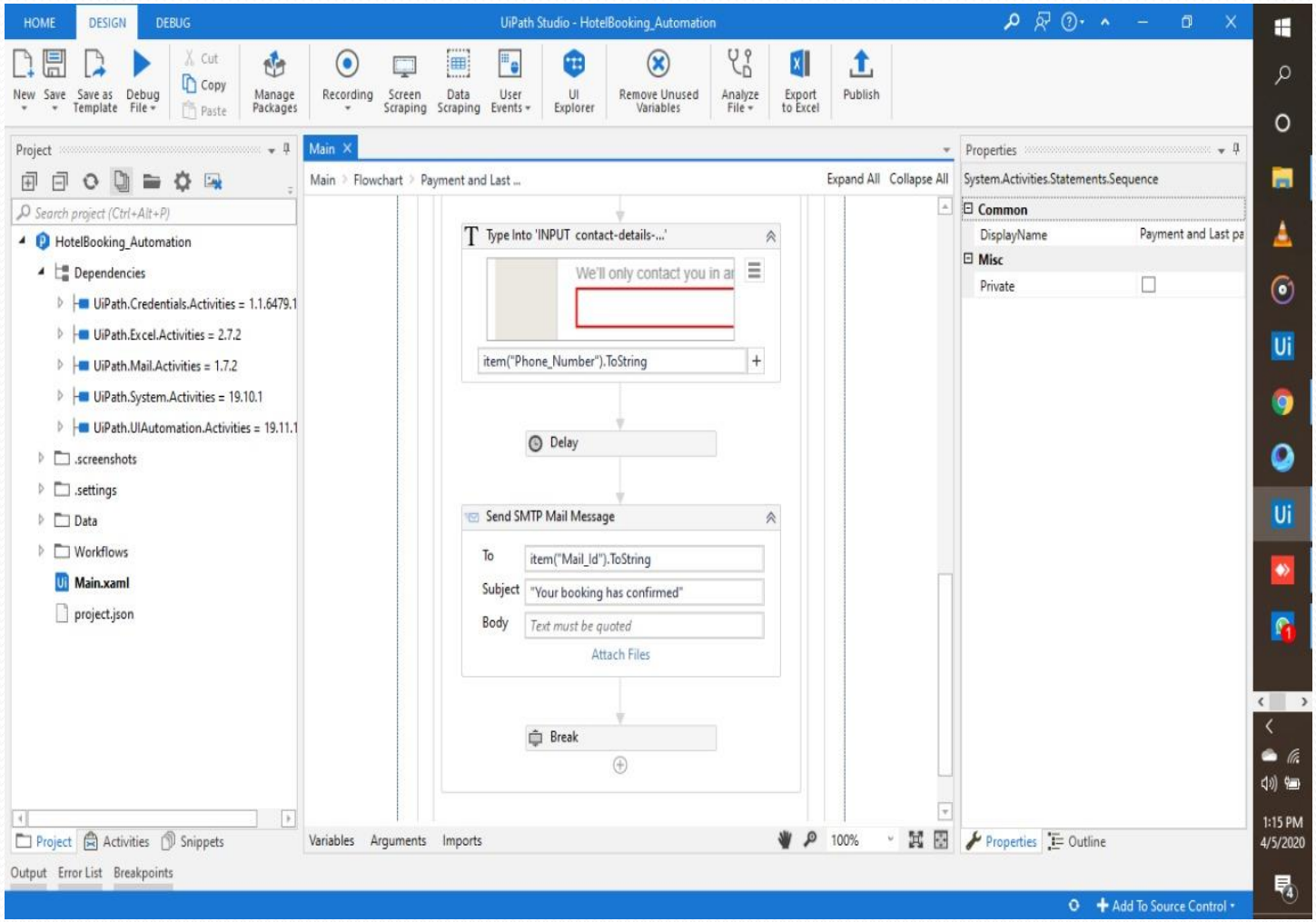
UiPath.System.Activities = 19.10.1
UiPath.UIAutomation.Activities = 19.11.1
.screenshots
.settings
Data
Workflows
Main.xaml
project.json
Main
Main > Flowchart > Element Exists 'S...
Expand All
Collapse All
Element Exists 'SPAN'
Step 1: Room de
Properties
UiPath.Core.Activities.UiElementExists
Common
Display Name
Element Exists 'SPAN
Input
Target
Misc
Private
Output
Exists
Bool_Roomdeta
Variables
Arguments
Imports
100%
Project
Activities
Snippets
Properties
Outline
Output
Error List
Breakpoints
Add To Source Control
1:13 PM
4/5/2020


HOME
DESIGN
DEBUG
UiPath Studio - HotelBooking_Automation
New
Save
Save as Template
Debug File
Cut
Copy
Paste
Manage Packages
Recording
Screen Scraping
Data Scraping
User Events
UI Explorer
Remove Unused Variables
Analyze File
Export to Excel
Publish
Project
Search project (Ctrl+Alt+P)
HotelBooking_Automation
Dependencies
UiPath.Credentials.Activities = 1.1.6479.1
UiPath.Excel.Activities = 2.7.2
UiPath.Mail.Activities = 1.7.2
UiPath.System.Activities = 19.10.1
UiPath.UIAutomation.Activities = 19.11.1
.screenshots
.settings
Data
Workflows
Main.xaml
project.json
Main
Main > Flowchart > Payment and Last ...
Expand All
Collapse All
Payment and Last page
For Each Row
ForEach item in dt_InputExcel
Body
Body
Type Into 'INPUT room-details-roo...'
Please give us the name o
item("First_Name")
Note: This is a screeenshot of the target window taken when you selected it on screen.
It is for information purposes only, at runtime the window might have a different appearance.
Delay
Type Into 'INPUT room-details-roo...'
Last name*
Properties
System.Activities.Statements.Sequence
Common
DisplayName
Payment and Last pa
Misc
Private
Variables
Arguments
Imports
100%
Properties
Outline
Project
Activities
Snippets
Output
Error List
Breakpoints
Add To Source Control
1:14 PM
4/5/2020


HOME
DESIGN
DEBUG
UiPath Studio - HotelBooking_Automation
New
Save
Save as Template
Debug File
Cut
Copy
Paste
Manage Packages
Recording
Screen Scraping
Data Scraping
User Events
UI Explorer
Remove Unused Variables
Analyze File
Export to Excel
Publish
Project
Search project (Ctrl+Alt+P)
HotelBooking_Automation
Dependencies
UiPath.Credentials.Activities = 1.1.6479.1
UiPath.Excel.Activities = 2.7.2
UiPath.Mail.Activities = 1.7.2
UiPath.System.Activities = 19.10.1
UiPath.UIAutomation.Activities = 19.11.1
.screenshots
.settings
Data
Workflows
Main.xaml
project.json
Main
Main > Flowchart > Payment and Last ...
Expand All
Collapse All
Type Into 'INPUT room-details-roo...'
Last name*
item("Last_Name").ToString
Delay
Type Into 'INPUT contact-details-...'
Your confirmation email go
item("Mail_Id").ToString
Delay
Type Into 'INPUT contact-details-...'
Properties
System.Activities.Statements.Sequence
Common
DisplayName
Payment and Last pa
Misc
Private
Project
Activities
Snippets
Variables
Arguments
Imports
100%
Properties
Outline
Output
Error List
Breakpoints
Add To Source Control
1:15 PM
4/5/2020


HOME
DESIGN
DEBUG
UiPath Studio - HotelBooking_Automation
New
Save
Save as Template
Debug File
Cut
Copy
Paste
Manage Packages
Recording
Screen Scraping
Data Scraping
User Events
UI Explorer
Remove Unused Variables
Analyze File
Export to Excel
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Search project (Ctrl+Alt+P)
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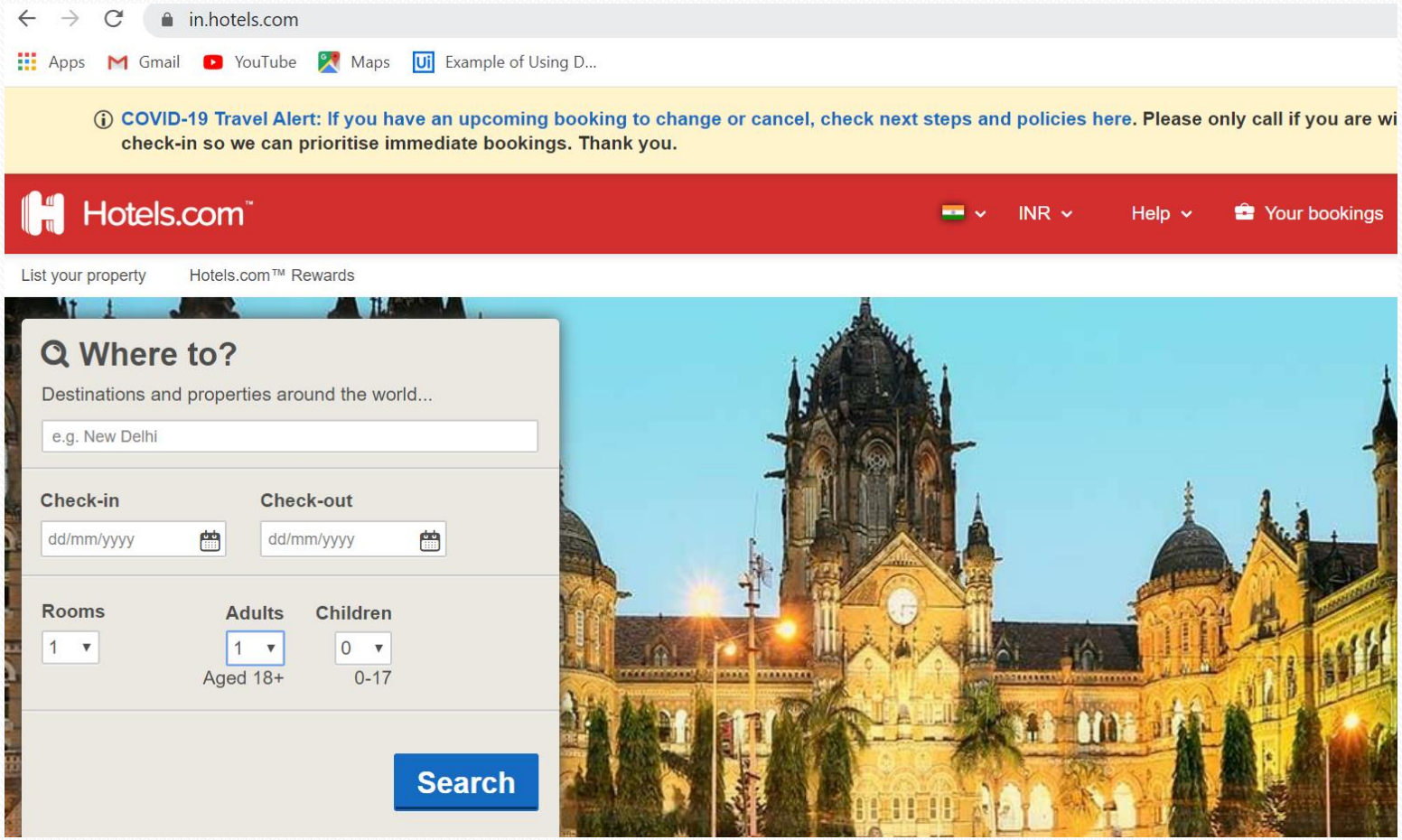
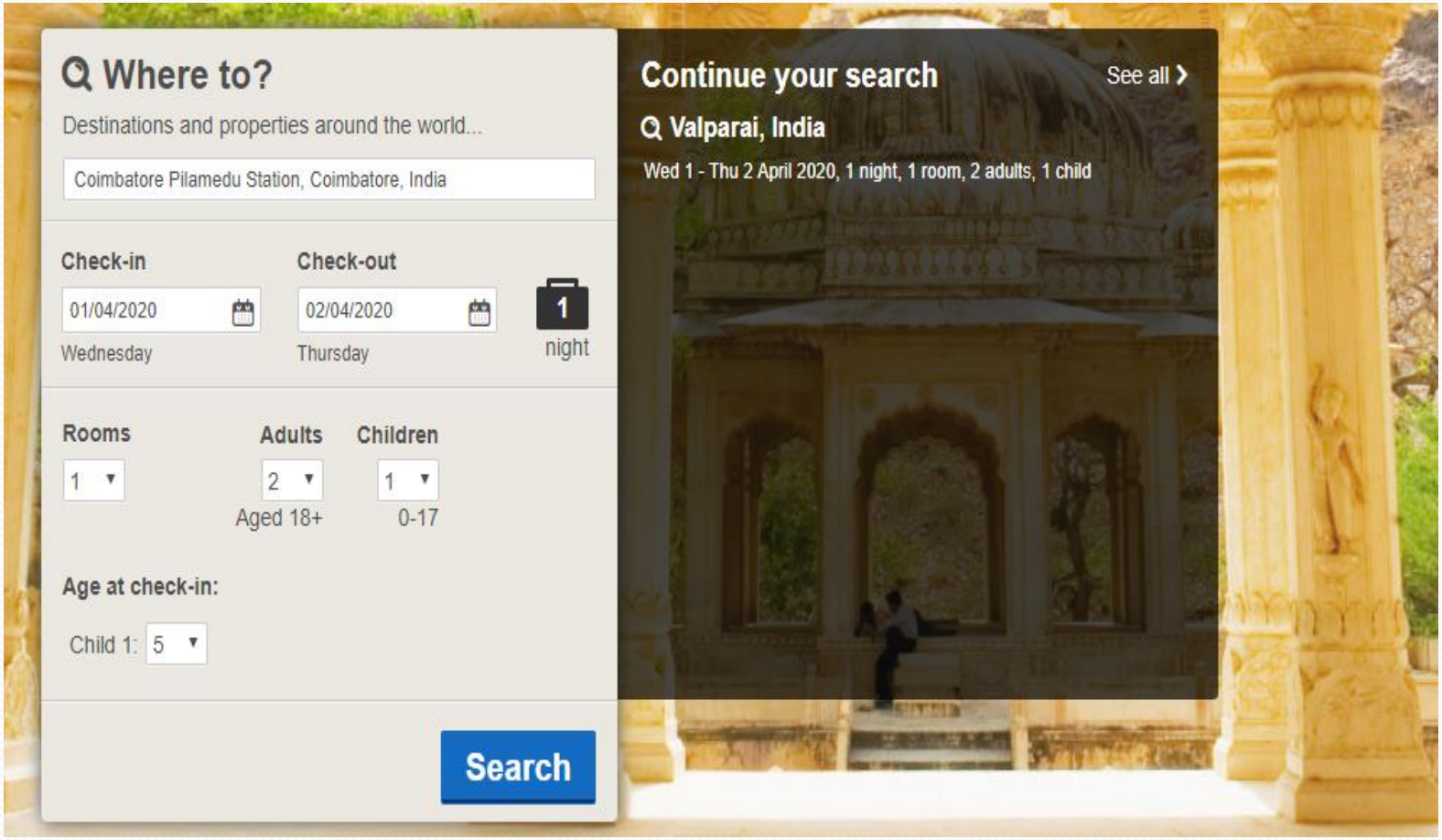
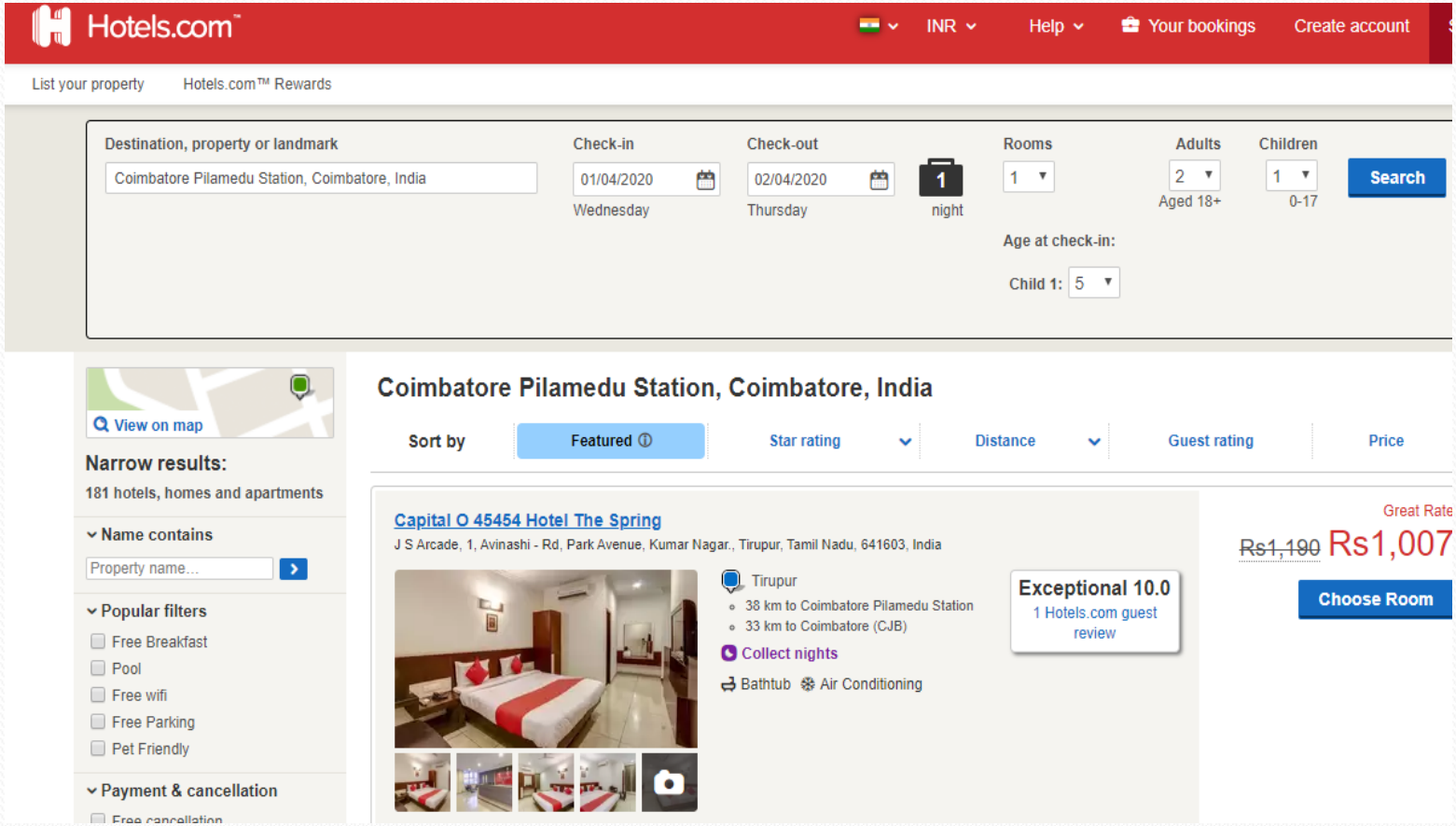
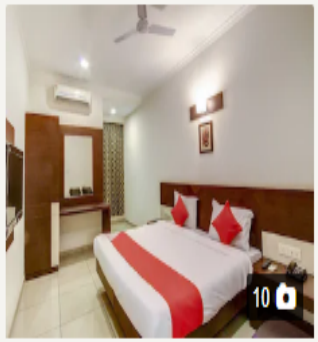
Dependencies
UiPath.Credentials.Activities = 1.1.6479.1
UiPath.Excel.Activities = 2.7.2
UiPath.Mail.Activities = 1.7.2
UiPath.System.Activities = 19.10.1
UiPath.UIAutomation.Activities = 19.11.1
.screenshots
.settings
Data
Workflows
Main.xaml
project.json
Main
Main › Flowchart › Payment and Last ...
Expand All
Collapse All
Type Into 'INPUT contact-details-...'
We'll only contact you in ar
item("Phone_Number").ToString
Delay
Send SMTP Mail Message
To
item("Mail_Id").ToString
Subject
"Your booking has confirmed"
Body
Text must be quoted
Attach Files
Break
Properties
System.Activities.Statements.Sequence
Common
DisplayName
Payment and Last pa
Misc
Private
Project
Activities
Snippets
Variables
Arguments
Imports
100%
Properties
Outline
Output
Error List
Breakpoints
Add To Source Control
1:15 PM
4/5/2020

SCREENSHOT-OUTPUT:

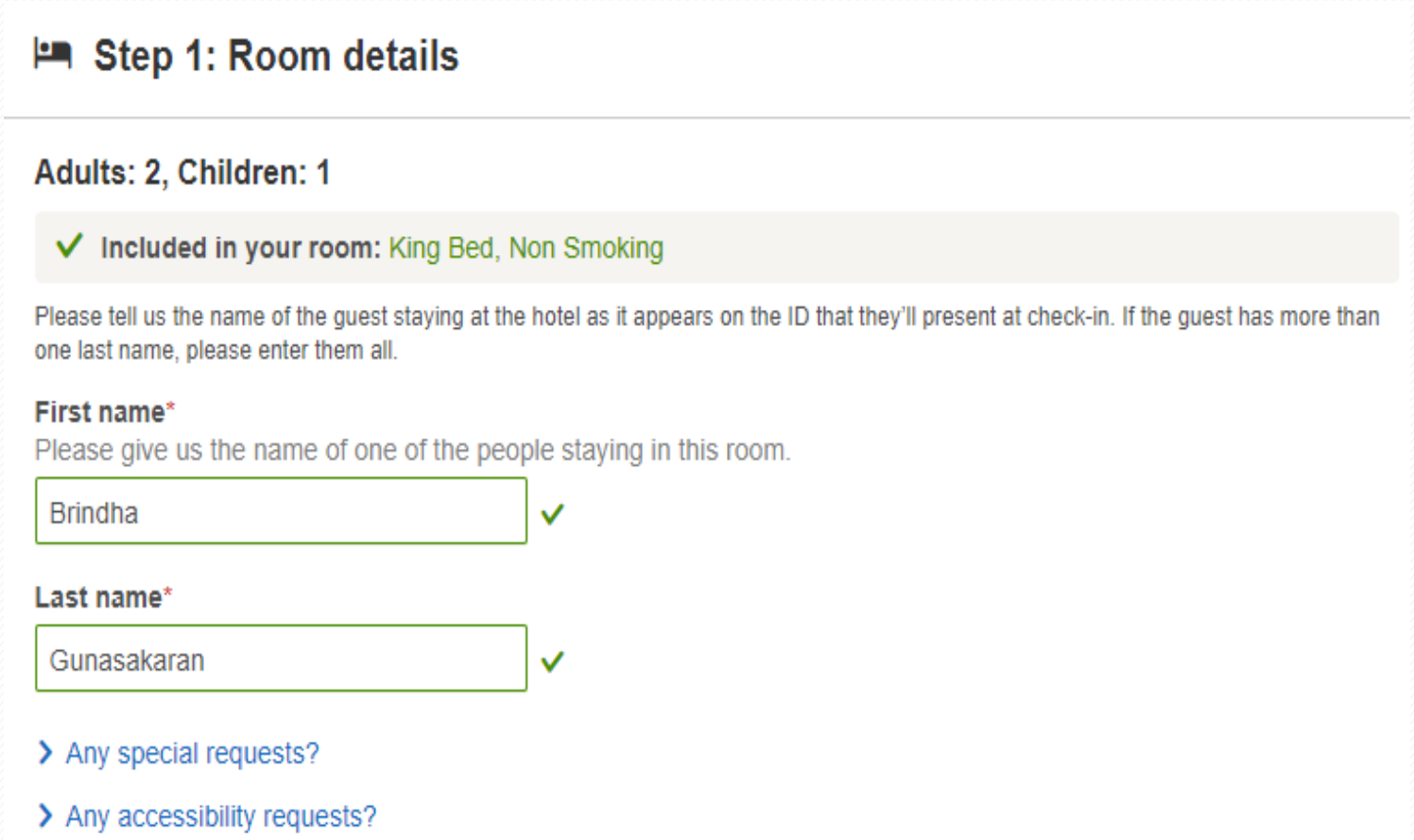



Where to?
Destinations and properties around the world...
Coimbatore Pilamedu Station, Coimbatore, India
Check-in
01/04/2020
Wednesday
Check-out
02/04/2020
Thursday
1
night
Rooms
1
Adults
2
Aged 18+
Children
1
0-17
Age at check-in:
Child 1: 5
Search
Continue your search
See all
Valparai, India
Wed 1 - Thu 2 April 2020, 1 night, 1 room, 2 adults, 1 child


Hotels.com
INR
Help
Your bookings
Create account
List your property
Hotels.com™ Rewards
Destination, property or landmark
Coimbatore Pilamedu Station, Coimbatore, India
Check-in
01/04/2020
Wednesday
Check-out
02/04/2020
Thursday
1
night
Rooms
1
Adults
2
Aged 18+
Children
1
0-17
Age at check-in:
Child 1: 5
Search
View on map
Narrow results:
181 hotels, homes and apartments
Name contains
Property name...
Popular filters
Free Breakfast
Pool
Free wifi
Free Parking
Pet Friendly
Payment & cancellation
Coimbatore Pilamedu Station, Coimbatore, India
Sort by
Featured
Star rating
Distance
Guest rating
Price
Capital O 45454 Hotel The Spring
J S Arcade, 1, Avinashi - Rd, Park Avenue, Kumar Nagar., Tirupur, Tamil Nadu, 641603, India
Tirupur
38 km to Coimbatore Pilamedu Station
33 km to Coimbatore (CJB)
Collect nights
Bathtub
Air Conditioning
Exceptional 10.0
1 Hotels.com guest review
Great Rate
Rs1,190
Rs1,007
Choose Room

Room type	Options	Hotels.com loyalty	Today's Price	
 **Deluxe Room** Sleeps 3 people (including up to 2 children) Bed choices ▪ 1 King Bed Show room information	Non-refundable Breakfast for 3 people	Hotels.com™ Rewards ✓ Collect ✓ Redeem	Rs1,007	Book

- **Data Scraping**:



Step 2: Your details

Email address*

Your confirmation email goes here

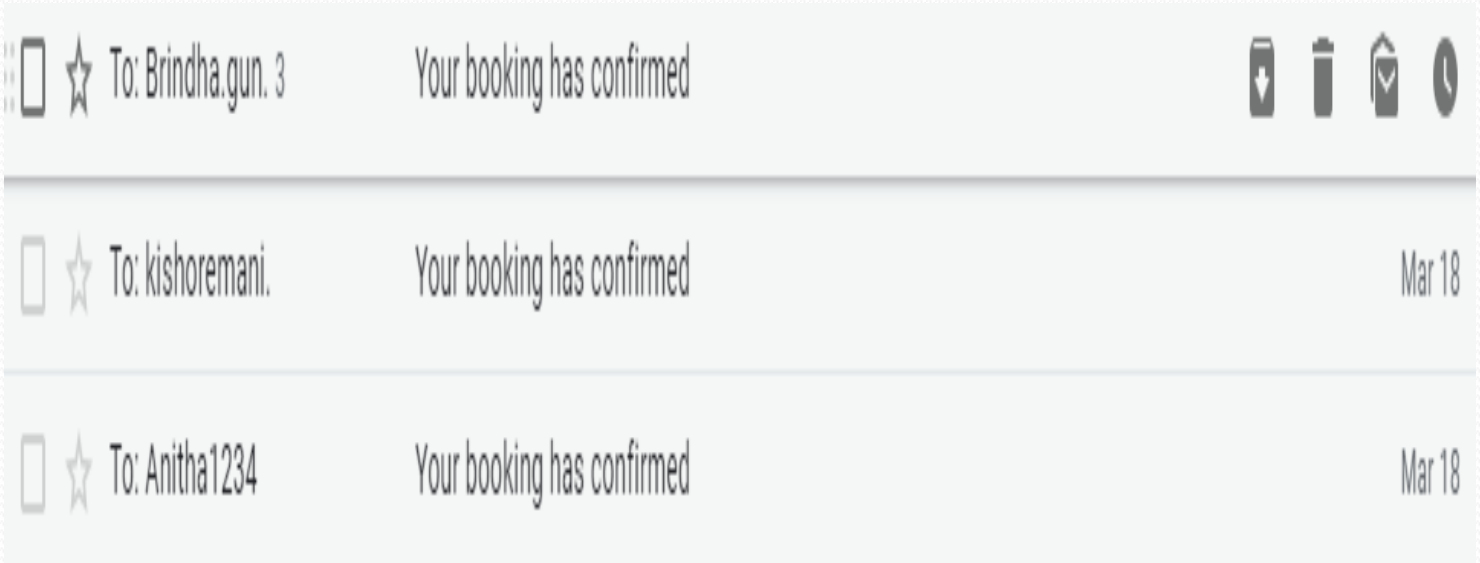
brindha.gunasekaran05@gmail.com ✓

Mobile number*

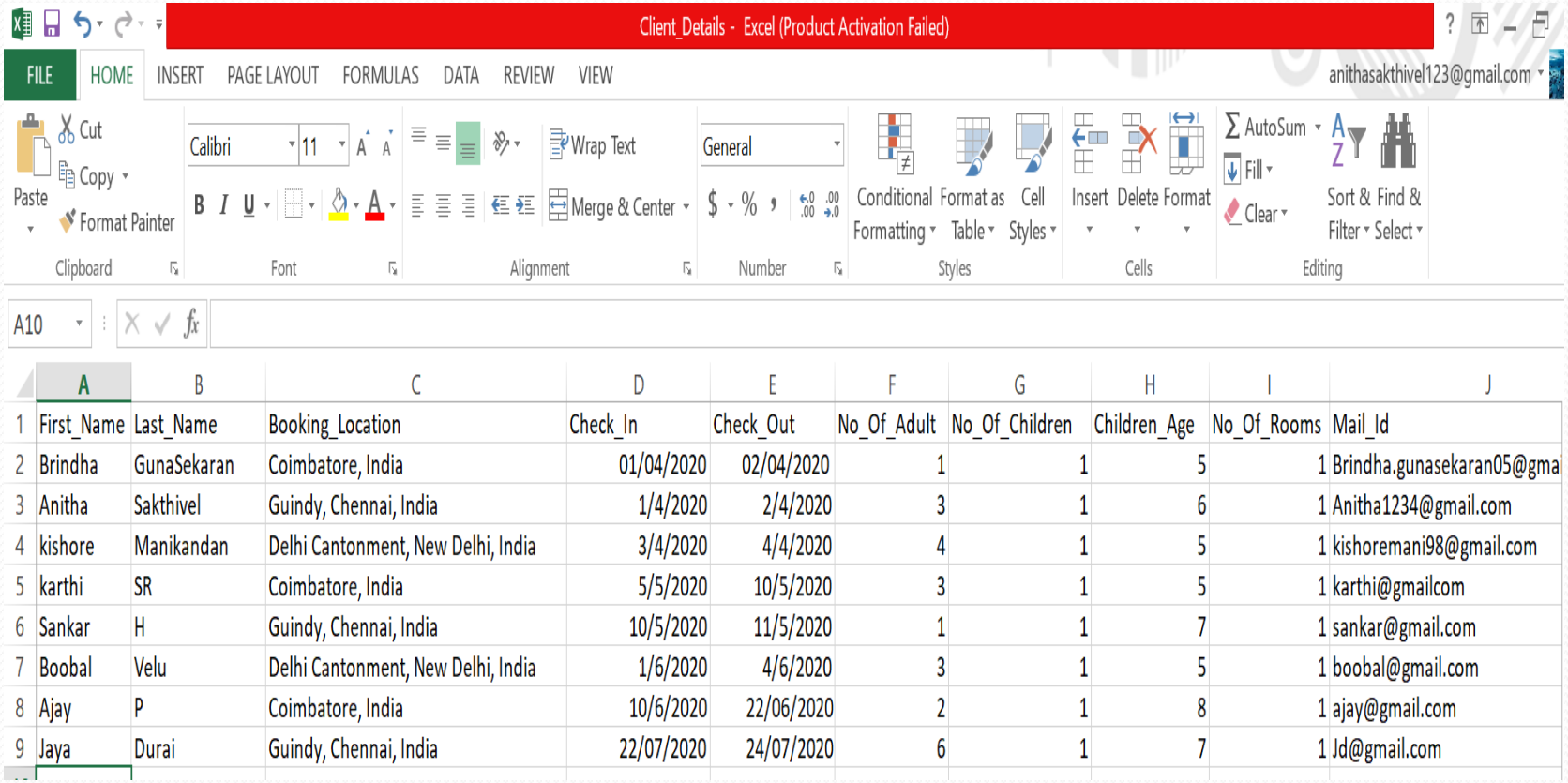
We'll only contact you in an emergency

9685743210 ✓

- **Email Notification**:



Back-end (excel sheet)



	A	B	C	D	E	F	G	H	I	J
1	First_Name	Last_Name	Booking_Location	Check_In	Check_Out	No_Of_Adult	No_Of_Children	Children_Age	No_Of_Rooms	Mail_Id
2	Brindha	GunaSekaran	Coimbatore, India	01/04/2020	02/04/2020	1	1	5	1	Brindha.gunasekaran05@gma
3	Anitha	Sakthivel	Guindy, Chennai, India	1/4/2020	2/4/2020	3	1	6	1	Anitha1234@gmail.com
4	kishore	Manikandan	Delhi Cantonment, New Delhi, India	3/4/2020	4/4/2020	4	1	5	1	kishoremani98@gmail.com
5	karthi	SR	Coimbatore, India	5/5/2020	10/5/2020	3	1	5	1	karthi@gmailcom
6	Sankar	H	Guindy, Chennai, India	10/5/2020	11/5/2020	1	1	7	1	sankar@gmail.com
7	Boobal	Velu	Delhi Cantonment, New Delhi, India	1/6/2020	4/6/2020	3	1	5	1	boobal@gmail.com
8	Ajay	P	Coimbatore, India	10/6/2020	22/06/2020	2	1	8	1	ajay@gmail.com
9	Jaya	Durai	Guindy, Chennai, India	22/07/2020	24/07/2020	6	1	7	1	Jd@gmail.com

THANK YOU!!!