

G1ANT RPA INTERNSHIP 2020

PROJECT -> TRAVEL ARRANGEMENT

WEBSITES USED -> WWW.YATRA.COM,

WWW.IXIGO.COM

SOFTWARE -> VISUAL STUDIO, G1ANT

PROJECT CONTRIBUTORS

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TRAVEL ARRANGEMENT

Description

The process of the code is to simulate a real-time process automation strategy in supporting Tour & Travel Arrangement. In this project we developed code using selenium commands, googledocs commands. This code is made for www.yatra.com, www.ixigo.com. We also created an add-on for yatra.com for complete automation of the site using Visual Studio 19 and G1ant SDK. In this coding we developed commands and made automation testing. The automation made for automatic login, booking, etc. So user is able to make his journey. The method of recording responses is done through a google form with defined questionnaire pertinent to cater the customer's need in best possible manner.

Google sheet link:-


https://docs.google.com/spreadsheets/d/1Bop8XoCFhqUG3BwIMm_FtFwsGPboDKqUSvEmziqWhak/edit#gid=952144861

Spreadsheet ID:-

1Bop8XoCFhqUG3BwIMm_FtFwsGPboDKqUSvEmziqWhak

Argument	Type	Required	Default Value	Description
type	Text	Yes		Enter the default browser for opening the webpage [Chrome, Firefox]

email	Text	Yes		Enter the operator's email here
pword	Text	Yes		Enter the operator's password here
to	Text	Yes		Enter the email of the user to whom the message is to be sent
subject	Text	Yes		Enter the title of the message
message	Text	Yes		Draft your email
Id	Text	Yes		Opens up the required google spreadsheet with the required id for performing operations
result	Text	No	♥result	Name of a variable where the command's result will be stored
if	Bool	No	true	Executes the command if the expected condition is true

timeout	Timespan	No	 timeoutcommand	Specifies time in milliseconds for G1ANT.Robot to wait for the command to be executed
errorcall	Procedure	No		Name of the procedure to be called if an exception is called or timeout has occurred
errorjump	label	No		Name of the label to jump to when the command throws an exception or when a given timeout expires
errormessage	Text	No		Message to be shown if an error occurs or timeout exceeds
errorresult	Variable	No		Name of a variable that will store the returned exception. The

				variable will be of error structure
search	Text	Yes		Indicate the program to search with the necessity arguments (xpath, id, class, etc...)
by	Text	Yes		Gives the program a mode to look for the id for the desired search option

Standard Operating Procedure

The below mentioned steps indicate the standard protocol for which the program runs:

- The operator first sends a mail to the customer requesting for their choices about travel arrangement. The responses are collected on a google form which is linked with an inbuilt googledocs spreadsheet. This spreadsheet will be the source of parsing in the values to the robot.

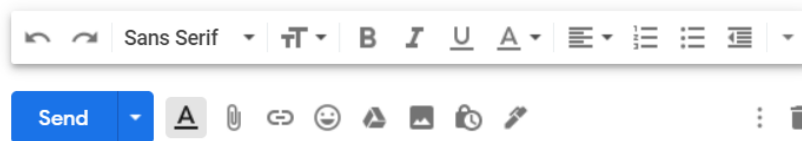
name@company.com

Holiday Tour Plan

Dear Sir, We are from G1ANT company who are responsible for organizing your holiday package. We provide both complete as well as user preferred packages for a nominal price. However, your package rates vary with your destinations. We will prefer the most optimized package tour for your preference. Please fill the Google Form Link and Update your choices (URL : <https://forms.gle/muqX3TUMioBiDwAQ7>).

We will reach you soon with the best package. Have a great trip.

Regards, XYZ



GOOGLE DOCUMENT

G1ANT Tours and Travels

We are a group of students who intend to book the perfect destination at relatively cheap rates. So what are you waiting for? Hop on and get your dream trip done at affordable rates. Please note that the entire process takes around 6 to 8 working hours. Kindly wait until then!

* Required

Name of the Customer *

Your answer

Phone Number (Needed for calling the person after confirmation) *

Your answer

Mention the departure *

Your answer

Mention the date of travel (dd/mm/yy) *

Your answer

Mode of travel

- ☐ Bus
- ☐ Flight
- ☐ Train

Mention any other specifications like hotel booking date, taxi requirements with date and time. *

Your answer

Mention the name of the People accompanying you on this trip with their age. *

Your answer

Any requirements from your side? If nothing, please mark NA *

Your answer

Your specifications (Note: Rates vary for different packages) *

☐ Simple Package - Includes only one mode of travel. At max two but does not include

Yatra

LOGIN



Welcome to Yatra!

Please Login/Register using your Email/Mobile to continue



EMAIL ID

rpainternsg1ant@gmail.com

Continue

By proceeding, you agree with our [Terms of Service](#),
[Privacy Policy](#) & [Master User Agreement](#).

Sign In With Facebook

Sign in with Google

Logged In/Registered users get MORE!

- View/ Cancel/ Reschedule bookings
- Check booking history, manage cancellations & print eTickets
- Book faster with Pre-Filled Forms, saved Travellers & Saved Cards
- Use Yatra eCash to get discounts
- Transfer eCash to your Family/Friends
- Convert eCash to Shopping Coupons from Amazon, BookMyShow, etc.
- Do you have GST number? Additional Benefits of Free Meals, Low Cancellation Fee, Free Rescheduling for SME business customers

BOOKING – FLIGHT

Yatra Flights Hotels Cabs Holidays Insurance Buses + More Hi Cindrella Support Offers Join Yatra for Business

Book Flights, Hotels and Holiday Packages

ONE WAY **ROUND TRIP** MULTI-CITY

Depart From **New Delhi** DEL Going To **Mumbai** BOM

Departure Date **2 Sep' 20** Wednesday Return Date **6 Sep' 20** Sunday

Traveller(s), Class **1 Traveller, Economy**

☐ Non Stop Flights

How to use Credit Shell/Yatra eCash

Book Using Credit Shell* → **Search Flights** →

*Indigo/SpiceJet only

escapes by yatra Purchase a Holiday at Rs. 29,990 & get Yatra vouchers worth Rs. 29,990

Click here to Web check-in **Use Airline Credit Shell to book your flight**


Yatra Specials [VIEW ALL](#)

- International Flights**
Now fly to London
Fare Starting ₹ 54,449
Travel start from 28 August
[Know More](#)
- International Flights**
Flat **10% Off** On International Flights
CODE **YTB0B20**
[Know More](#)
- International Flights**
yatra Exclusive Guideline for **International Travel** On Flights
[Know More](#)


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BOOKING – TRAIN

BOOKING – BUS



Hi Cinderella ▾ Support ▾ Recent Search ▾ Offers




From
Delhi

→

To
Jaipur

Date
02/09/2020



Find Buses

Filters

Bus Type ▾

Pickup/Drop Time ▾

Boarding Points ▾

Dropping Points ▾

Bus Operators ▾

01 Sep
Tue

02 Sep
Wed

03 Sep
Thu

04 Sep
Fri

05 Sep
Sat

06 Sep
Sun

07 Sep
Mon

08 Sep
Tue

09 Sep
Wed

10 Sep
Thu

11 Sep
Fri

12 Sep
Sat


13 Sep
Sun

>

We have got 150 results

Operator	Departure ↓	Total Duration ↑	Arrival ↑	Price ↑	Select Seats
Mahalaxmi Travels ISO 9001:2015 <small>A-C Seater - Sleeper (2+1)</small>	02:00	6h <small>Boarding/Dropping Points</small>	08:00	₹ 419 <small>31 Seats Left</small>	Select Seat <small>Cancellation Policy</small>
GK Travels <small>A-C Seater - Sleeper (2+1)</small>	02:15	5h 15m <small>Boarding/Dropping Points</small>	07:30	₹ 4,200 <small>42 Seats Left</small>	Select Seat <small>Cancellation Policy</small>
Vijay Tour And TravelsPremium <small>A-C, Sleeper, Premium, Multi Axle</small>	02:20	4h 10m <small>Boarding/Dropping Points</small>	06:30	₹ 900 <small>37 Seats Left</small>	Select Seat <small>Cancellation Policy</small>

BOOKING – HOTEL



Hi Cinderella ▾ Support ▾ Recent Search ▾ Offers

HOTEL NAME

DEALS

PRICE FOR 2 NIGHTS

STAR RATING

TRIPADVISOR RATING

Goa
WED, 2 SEP - FRI, 4 SEP (2 NIGHTS) | 1 ROOM | 2 ADULTS


ALL HOTELS (195)
from ₹ 1,564

Modify Search

Even Lower Prices Now: Promocode has been automatically applied.


SORT BY: RECOMMENDED STAR RATING TRIPADVISOR RATING PRICE (TAXES EXTRA)

FEATURED



Neelams The Grand
★★★★★ Calangute, Goa
Free Breakfast
yatra SMART BOOK ✓ CLEAN PASS ✓ Couple Friendly
You Save ₹ 1,567 | Book now & earn ₹500 eCash

FEATURED



Nitya Resort
★★★★★ Calangute, Goa
Free WiFi Swimming pool Bar
yatra SMART BOOK ✓ CLEAN PASS ✓ Couple Friendly

3.5/5 Very Good (866)
Impressive Location 4.0/5
₹6,399 **₹4,733**
For 2 nights
Choose Room

4/5 Very Good (122)
Impressive Location 4.0/5
₹5,398 **₹3,967**
For 2 nights
Choose Room


0, 1 2 3 4 5
★ ★ ★ ★ ★
29 19 78 42 27

0-1 1-2 2-3 3-4 4-5
0 0 9 78 87

Do check travel advisory for hotels issued by Govt. of Goa [here](#)

>>

BOOKING – CAB




Outstation Round Trip

Outstation Oneway

Local Hourly Basis

Cabs to Airport

Cabs from Airport



From

New Delhi

To

Jaipur


Pickup Date

02-09-2020 10:00 AM

Return Date

04-09-2020 7:00 PM

Search Again



ADVANTAGE


All cabs follow Clean Pass standards


• Sanitization

• Face Masks

• Social Distancing

READ MORE





Hatchback

Tata Indica, Chevrolet Beat or similar

CLEARCARRENTAL
(Tata Indigo)

₹7,521

CLEARCARRENTAL
(Tata Indica)

₹7,521


+ 2 more Vendor

Distance 675 Kms

Max 4

Extra fare ₹9.50/km

Pay 25% Advance




₹7,521


Book Now


e-Cash ₹500

CAR DETAILS

BOOK – PACKAGE




Hi Cindrella ▾ Support ▾ Recent Search ▾ Offers


Destination
Dubai



Departure city
New Delhi

Month ▾

Modify Search

See Local. Do Local




KNOW MORE

Trip Duration ▾
Hotel Star ▾
Transportation ▾
Themes ▾
Price ▾

21 Packages
Group Tour
Customizable Tour
Yatra Special

Sort by:





Popular ▾
Duration
Price
Recently Added



Dubai Dhamaka

4 Nights / 5 Days
Seller : Yatra.com

Dubai (4N)

EMI ₹ 2,150


₹ 34,990

Per Person on twin sharing

View Details

Pay & Hold ₹ 5,000

Earn eCash ₹ 1,049



8% off

Marhaba Sharjah

4 Nights / 5 Days
Seller : Yatra.com

EMI ₹ 3,379

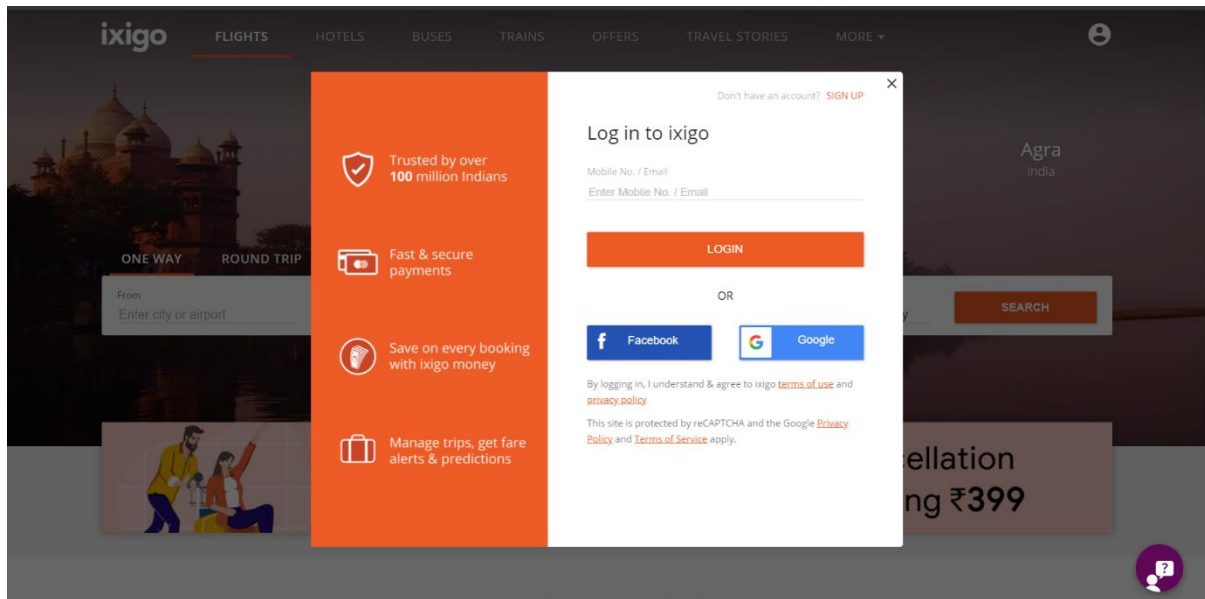
₹ 54

Per Person on twin sharing

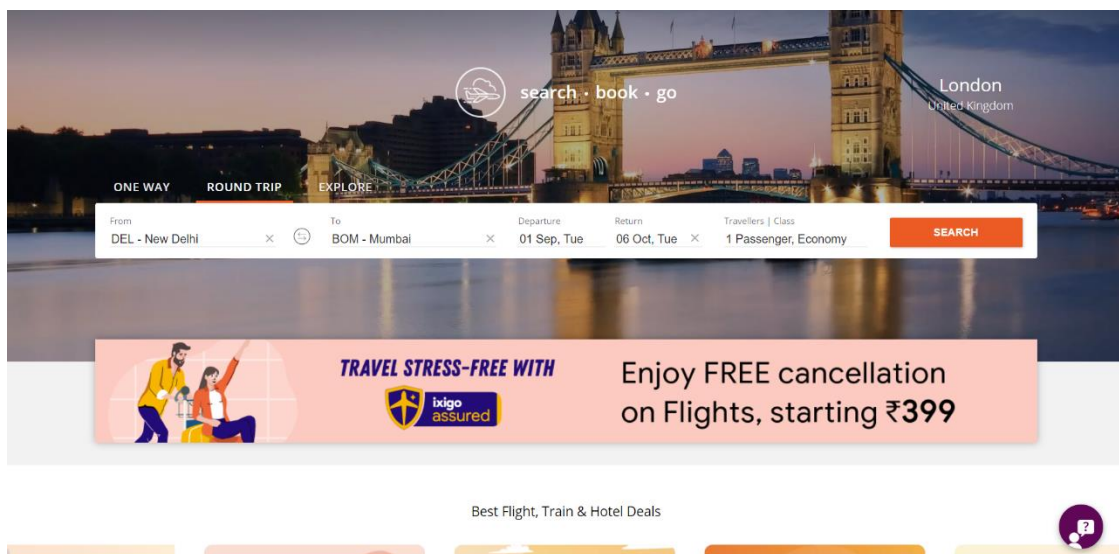
My Chats

IXIGO

LOGIN



BOOK - TRAIN



REVIEW

Review
Traveller details
Payment

New Delhi to Mumbai
Tue, 01 Sep • 2 hr 5 min

IndiGo 6E6215 • A320 • Economy • Standard 3-3 (Limited seat tilt) • Narrow
usually on time

DEL 12:55
Tue, 01 Sep
Indira Gandhi Intl Airport
New Delhi

2hr 5min

BOM 15:00
Tue, 01 Sep
Chhatrapati Shivaji International ...
Mumbai

Wifi
In-seat Power
Food
On demand video

Mumbai to New Delhi
Tue, 06 Oct • 2 hr

SpiceJet 5G8710 • B737-800 • Economy • Narrow (Limited seat tilt) • Standard
usually delayed by 55 mins

BOM 21:45
Tue, 06 Oct
Chhatrapati Shivaji International ...
Mumbai

2hr

DEL 23:45
Tue, 06 Oct
Indira Gandhi Intl Airport
New Delhi

Wifi
In-seat Power
Food
On demand video

BAGGAGE
FARE RULES
TERMS & CONDITIONS

Flight	Cabin Baggage	Check-in Baggage
DEL - BOM IndiGo 6E6215	0 kg	20 kg
BOM - DEL SpiceJet 5G8710	7 kg	20 kg

Offers

INSTANT
₹151 off

Coupon applied. You will get an instant discount of ₹151 + ₹200 Ola coupon code on this booking. Pay via UPI to earn ₹150 ixigo money.
KNOW MORE

HEALTH

Get free vouchers worth ₹5000 on this booking.
KNOW MORE

FLYMYN

Get flat 10% off, upto ₹500 on Myntra.
KNOW MORE

LENSKART

Get FREE 6 month Lenskart Gold membership worth ₹600.
KNOW MORE

Have a coupon code?

Fare Summary (1 traveller)

Fare Type
Partially Refundable

Base Fare
₹6500

Taxes & Fees
₹1312

Instant Off
- ₹151

You Pay
₹7661

I confirm that I have read, understood and agree with the Fare Rules, Privacy Policy and Terms of Use.

PAY SECURELY

TRAVELLER DETAILS

ixigo

Review
Traveller details
Payment

IndiGo 6E6215
DEL 12:55
Tue, 01 Sep
BOM 15:00
Tue, 01 Sep
2 hr 5 min
non stop

MODIFY

SpiceJet 5G8710
BOM 21:45
Tue, 06 Oct
DEL 23:45
Tue, 06 Oct
2 hr
non stop

Enter traveller details
1 traveller

Adult 1

Name
Ms Eva Adamant
Nationality
India

Fare Summary (1 traveller)

Fare Type
Partially Refundable

Base Fare
₹6500

Taxes & Fees
₹1312

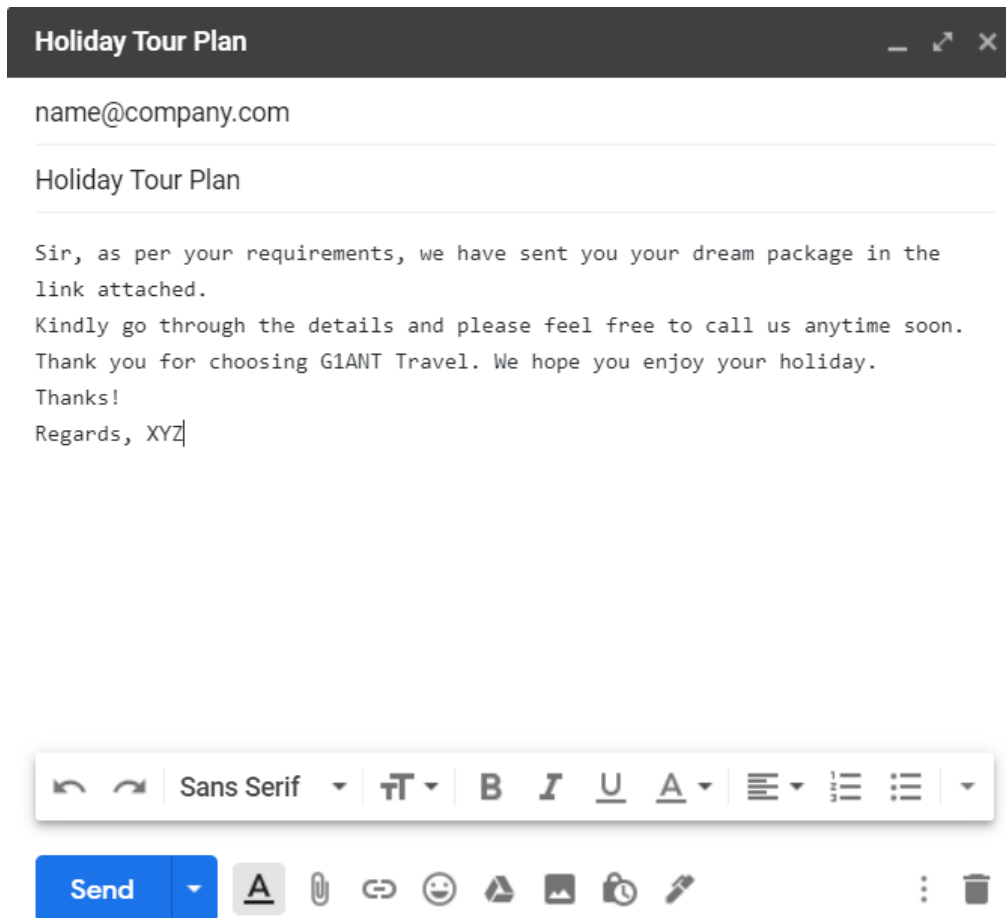
Instant Off
- ₹151

You Pay
₹7661

I confirm that I have read, understood and agree with the Fare Rules, Privacy Policy and Terms of Use.

PAY SECURELY

CONFIRMATION EMAIL



- For the detected platform, the robot starts with performing all the pre-requisite operations starting entire process starting from asking customers about their requirements, booking a cab, booking convenient travel options making payment, and sending confirmation to the customers.
- The cycle then periodically repeats itself to traverse through the google form for the entire day. In order to reduce complexity, once the process is completed, the google spreadsheet will close

to erase previous data and creates a new spreadsheet to begin a new process

- In case of a failure in the internet connection, the delay period mentioned would take care of any unnecessary interruptions during the execution process ensuring simplicity. The code for this process is given below:-

addon core version 4.107.2.0

addon language version 4.106.2.0

addon gmail version 1.0.0.0

addon googledocs version 4.103.0.0

addon yatra version 1.0.0.0

gmail.open type chrome search

♥login = ♥credential[[gmail:login]]

♥password = ♥credential[[gmail:password]]

♥myDate = [[date:dd/MM/yyyy]]31/08/2020

gmail.login email ♥login pword ♥password search

delay 20

gmail.sendmails to ""name@company.com"" subject ""Holiday Tour Plan"" message "" Dear Sir, We are from G1ANT company who are responsible for organizing your holiday package. We provide both complete as well as user preferred packages for a nominal price. However, your package rates vary with your destinations. We will prefer the most optimized package tour for your preference. Please fill the Google Form Link and Update your choices (URL :

<https://forms.gle/muqX3TUMioBiDwAQ7>). We will reach you soon with the best package. Have a great trip. Regards, XYZ" search

googlesheet.open

1Bop8XoCFhqUG3BwlMm_FtfWsGPboDKqUSvEmziqWhak result ♥id

googlesheet.getvalue B5 result ♥name

googlesheet.getvalue G5 result ♥myDate

googlesheet.getvalue H5 result ♥B

googlesheet.getvalue I5 result ♥from

googlesheet.getvalue J5 result ♥mode

googlesheet.getvalue K5 result ♥to

googlesheet.getvalue M5 result ♥c

-yatra

yatra.login email "rpainternsg1ant@gmail.com" pword

"g1antintern" search hi

delay 20

if ♥mode=="Flight"

yatra.flight op "1" depart ♥from arrival ♥to departdate ♥myDate
cabin "Economy" search hi

delay 20

else if ♥mode=="Train"

yatra.train departure ♥from arrival ♥to depart ♥myDate irctcid
Giantteam search hi

else if ♥mode=="Bus"

yatra.bus depart ♥from destination ♥to departdate ♥myDate
search hi

end

if ♥B=="Y"

yatra.hotel hotel ♥to checkin ♥myDate checkout ""22/09/20""
search hi

dialog ""Hotel checked!""

else ♥B=="N"

delay 10

end

if ♥c=="Y"

yatra.cab op ""1"" depart ♥from destination ♥to departdate
♥myDate search hi

delay 10

else if ♥c=="N"

delay 5

end

yatra.package depart ♥from arrival ♥to search hi

delay 10

-ixigo

selenium.open type chrome url <https://www.ixigo.com/>

delay 5

window *ixigo* style maximize

selenium.click search

**//*[@id="content"]/div/div[1]/header/div/div[2]/span/span by
xpath**

delay 5

selenium.click search

**//*[@id="content"]/div/div[5]/div/div/div[2]/div[2]/div/div[3]/div[1]
/span[2]/input by xpath**

keyboard "'rpainternsg1ant@gmail.com'"

selenium.click search

**//*[@id="content"]/div/div[5]/div/div/div[2]/div[2]/div/div[3]/div[2]
/button/div by xpath**

keyboard "'OTP'"

selenium.click search

**//*[@id="content"]/div/div[5]/div/div/div[2]/div[2]/div/button/div
by xpath**

if ♥mode=="Flight"

selenium.click search

**//*[@id="content"]/div/div[1]/div[6]/div/div/div[1]/div/div[1]/input
by xpath**

keyboard "'♥from<<<enter>>>'"

selenium.click search

**//*[@id="content"]/div/div[1]/div[6]/div/div/div[3]/div/div[1]/input
by xpath**

keyboard "'♥to<<<enter>>>'"

-return

-selenium.click search

//*[@id="content"]/div/div[1]/div[6]/div/div/div[4]/div/div[2]/div/input by xpath

selenium.click search

//*[@id="content"]/div/div[1]/div[6]/div/div/div[6]/button/div by xpath

delay 5

selenium.click search

//*[@id="content"]/div/div[4]/div[1]/div[1]/div[3]/div/div/div[1]/a[2]/div[2]/div by xpath

else

delay 5

end

-booking

delay 5

selenium.click search

//*[@id="content"]/div/div[4]/div[1]/div[2]/div[3]/div/div[3]/div/div[2]/button/div by xpath

delay 5

selenium.click search

//*[@id="content"]/div/div[4]/div[1]/div[2]/div[3]/div[2]/div[2]/div/div[1]/div[2]/div[2]/div[2]/button by xpath

delay 5

selenium.click search

//*[@id="content"]/div/div[2]/div[2]/div[3]/div/button/div by xpath

delay 5

selenium.click search

//*[@id="content"]/div/div[2]/div[1]/div[2]/div/div/div[2]/div[1]/div
/div[2]/div[1]/div[1]/input by xpath

delay 5

if ♥title=="Mr"

selenium.click search

//*[@id="content"]/div/div[2]/div[1]/div[2]/div/div/div[2]/div[1]/div
/div[2]/div[1]/ul/li[1] by xpath

else if ♥title=="Ms"

selenium.click search

//*[@id="content"]/div/div[2]/div[1]/div[2]/div/div/div[2]/div[1]/div
/div[2]/div[1]/ul/li[2] by xpath

delay 5

else

selenium.click search

//*[@id="content"]/div/div[2]/div[1]/div[2]/div/div/div[2]/div[1]/div
/div[2]/div[1]/ul/li[3] by xpath

end

selenium.click search

//*[@id="content"]/div/div[2]/div[1]/div[2]/div/div/div[2]/div[1]/div
/div[2]/div[2]/div/input by xpath

keyboard "'First name'"

delay 5

selenium.click search

**//*[@id="content"]/div/div[2]/div[1]/div[2]/div/div/div[2]/div[1]/div
/div[2]/div[3]/div/input by xpath**

keyboard "Last name"

selenium.click search

**//*[@id="content"]/div/div[2]/div[1]/div[2]/div/div/div[2]/div[1]/div
/div[2]/div[4]/div/div[1]/input by xpath**

keyboard Indian

selenium.click search

**//*[@id="content"]/div/div[2]/div[2]/div[2]/div[2]/div/button/div by
xpath**

-stay

selenium.click search

**//*[@id="content"]/div/div[1]/header/div/span[2]/nav/span[2]/a by
xpath**

selenium.click search

**//*[@id="content"]/div/div[1]/div[6]/div/div/div[1]/div/div[1]/input
by xpath**

keyboard ♥to

selenium.click search

**//*[@id="content"]/div/div[1]/div[6]/div/div/div[4]/button/div by
xpath**

delay 5

selenium.click search
//*[@id="content"]/div/div[5]/ul/li[1]/div[4]/div/div[3]/button/div
by xpath

delay 5

selenium.click search
//*[@id="hpvt_nos_select_32954204_86019622_2_42_0"] **by xpath**

delay 5

keyboard "number of persons for staying"

selenium.click search **//*[@id="b_tt_holder_10"]** **by xpath**

delay 5

- Send the confirmation mail as URL

gmail.login email ♥login pword ♥password search

delay 20

gmail.sendmails to "name@company.com" subject "Holiday Tour Plan" message "Sir, as per your requirements, we have sent you your dream package in the link attached (#attachlink). Kindly go through the details and please feel free to call us anytime soon. Thank you for choosing G1ANT Travel. We hope you enjoy your holiday. Thanks! Regards, XYZ"

- The above code will follow the procedure as specified by the customer in the google docs.