Developmental phase of Hotel booking chatbot



OUTLINE



Configuring Botpress

Setting up Botpress account Creating flows Adding knowledge base



Troubleshoot

Testing using emulator Checking logics Refining code

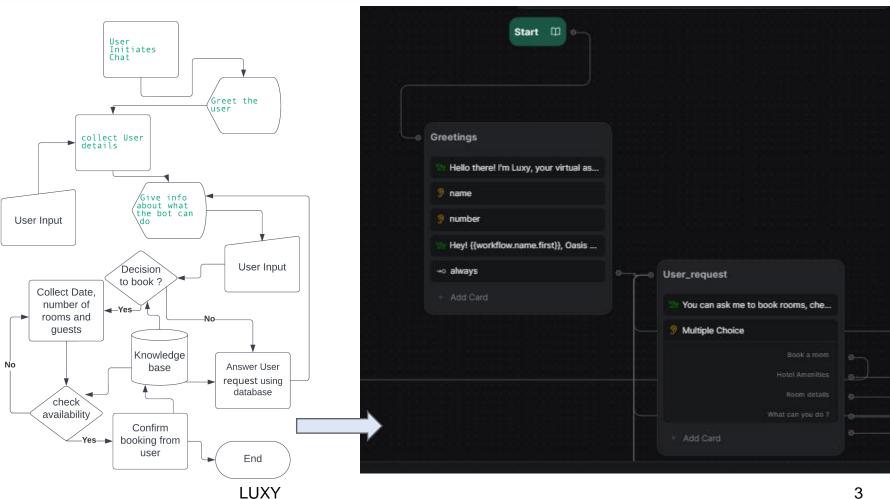


Testing and production

Testing
Tackling issues
Publishing test version
Working on feedback

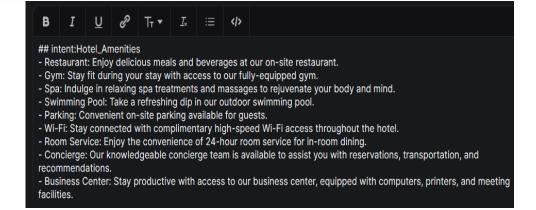
CONFIGURING BOTPRESS

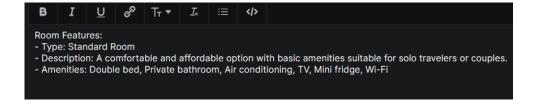
- Configured Botpress for new chatbot.
- Creation of basic flows in Botpress.
- From concept to Botpress.



CONFIGURING BOTPRESS

- Gathering / creating data (OpenAI, 2024).
- Adding data to knowledge base.







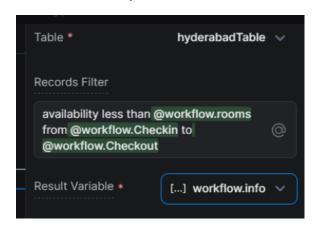
CONFIGURING BOTPRESS

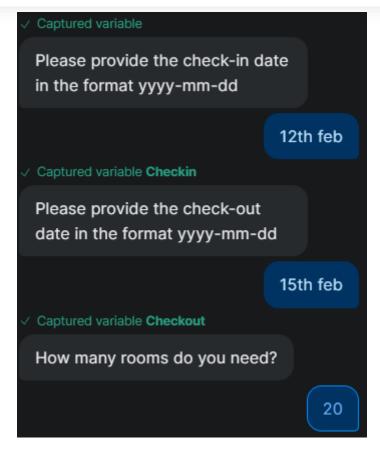
 Manually added random availability data in table format.

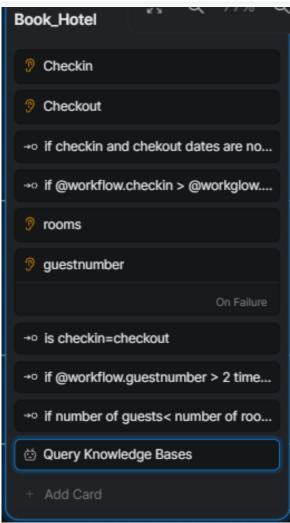
```
#,Created at,Updated at,Date,Availability
1 2024-03-03T20 20 39 822Z 2024-03-03T20 20 40 218Z 2024-02-01T12 00 00 000 05 5
2 2024-03-03T20 20 39 822Z 2024-03-03T20 20 40 218Z 2024-02-02T12 00 00.000Z 3
 2024-03-03T20 20 39.822Z 2024-03-03T20 20 40.218Z 2024-02-03T12 00 00.000Z 4
4 2024-03-03T20 20 39.822Z 2024-03-03T20 20 40.218Z 2024-02-04T12 00 00.000Z 9
  2024-03-03T20:20:39.822Z,2024-03-03T20:20:40.218Z,2024-02-05T12:00:00.000Z,17
6 2024-03-03T20 20 39.822Z 2024-03-03T20 20 40.218Z 2024-02-06T12 00 00.000Z 4
 8 2024-03-03T20 20 39 822Z 2024-03-03T20 20 40 218Z 2024-02-08T12 00 00 000Z 20
9 2024-03-03T20 20 39.822Z 2024-03-03T20 20 40.218Z 2024-02-09T12 00 00.000Z 25
10 2024-03-03T20 20 39.822Z 2024-03-03T20 20 40.218Z 2024-02-10T12 00 00.000Z 24
11 2024-03-03T20:20:39.822Z 2024-03-03T20:20:40.218Z 2024-02-11T12:00:00.000Z 5
12 2024-03-03T20 20 39.822Z 2024-03-03T20 20 40.218Z 2024-02-12T12 00 00.000Z 18
13 2024-03-03T20 20 39.822Z 2024-03-03T20 20 40.218Z 2024-02-13T12 00 00.000Z 6
14 2024-03-03T20:20:39.822Z.2024-03-03T20:20:40.218Z.2024-02-14T12:00:00.000Z.5
15 2024-03-03T20 20 39.822Z 2024-03-03T20 20 40.218Z 2024-02-15T12 00 00.000Z 19
16 2024-03-03T20 20 39.822Z 2024-03-03T20 20 40.218Z 2024-02-16T12 00 00.000Z 17
17 2024-03-03T20:20:39.822Z 2024-03-03T20:20:40.218Z 2024-02-17T12:00:00.000Z 22
```

TROUBLESHOOT

- Errors while working with dates.
- As availability data is limited, tried to make sure user enters date from 1st Feb 2024 to 15th Feb 2024.
- "Query knowledge base" did not work as expected.







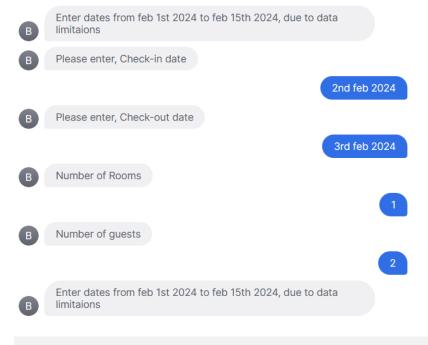
TROUBLESHOOT

- Added code manually to check availability from table.
- Solved issues with dates.

```
const checkin = new Date(workflow.Checkin);
const checkout = new Date(workflow.Checkout);
console.log("Check-in date:", checkin);
console.log("Checkout date:", checkout);
const records = await hyderabadTable.findRecords({
 filter: {
   Date: {
     $gte: checkin,
     $lte: checkout
   Availability: {
     $1t: workflow.rooms
console.log("Records found:", records);
if (records.length > 0) {
 workflow.notavail = 1;
 console.log("Workflow.notavail set to 1.");
```

TESTING AND PRODUCTION

- Asked some of my friends to test the chatbot.
- Discovered additional issues concerning the date range.
- Solved issues by separating code for check-in and check-out.
- Found some linguistic errors that were sorted out later.



!(workflow.Checkin >= new Date('2024-02-01') && workflow.Checkin <= new Date('2024-02-15'))



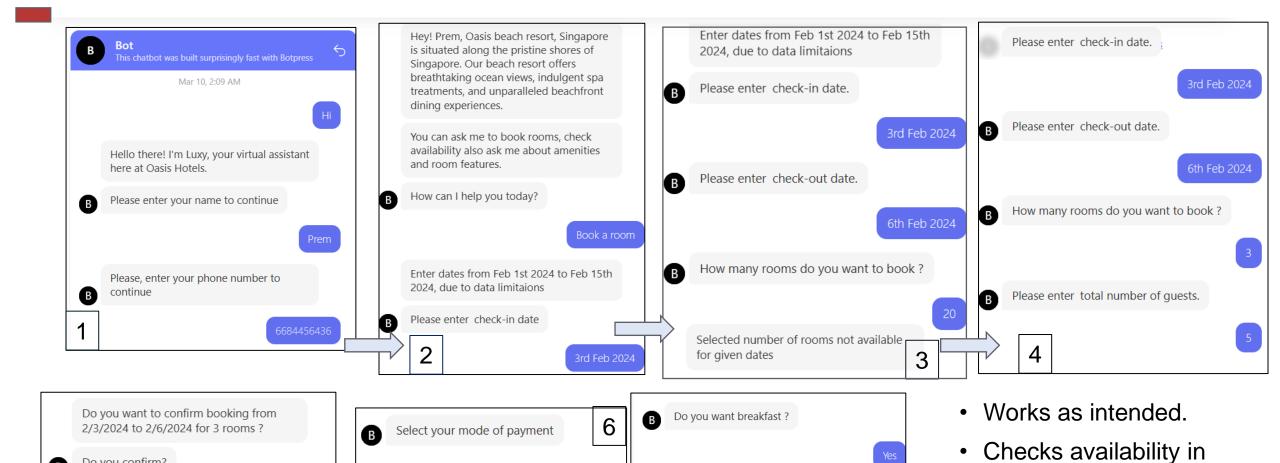
!(workflow.Checkout >= new Date('2024-02-01') && workflow.Checkout <= new Date('2024-02-15'))



!(workflow.Checkin >= new Date('2024-02-01') && workflow.Checkin <= new Date('2024-02-15')) || !(workflow.Checkout >= new Date('2024-02-01') && workflow.Checkout <= new Date('2024-02-15'))

CONVERSATIONAL FLOW

Do you confirm?



Internet banking

Card

Cash

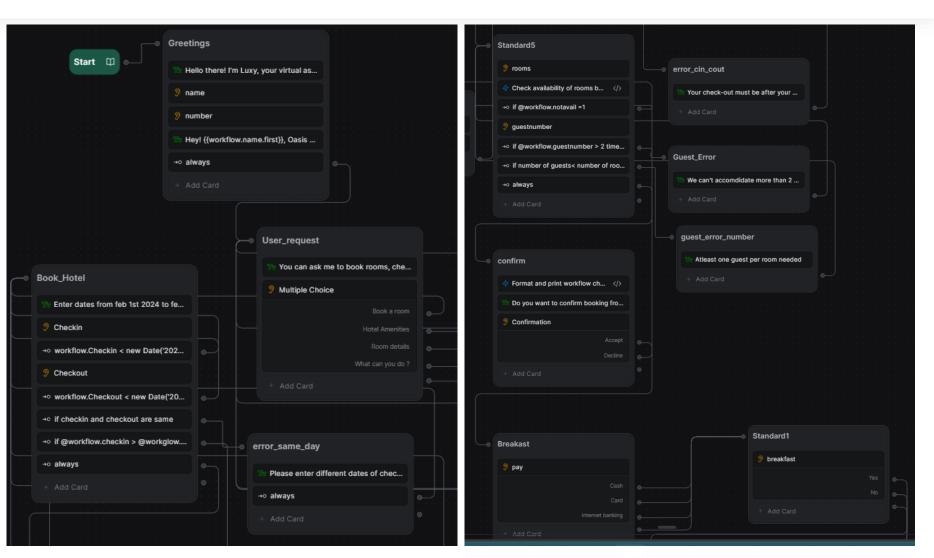
Prem, your booking has been confirmed

screenshot 3 as

intended.

CONVERSATIONAL FLOW

 Part of workflow from Botpress studio.



PUBLISHED CHATBOT LINK

- Chatbot (botpress.cloud)
- Feel free to test the chatbot from the given link.
- Any further feedback is appreciated.

REFERENCES

- Botpress. (2024, Feb 25). https://botpress.com/
- OpenAI. (2024, Feb 28). Response to "generate training data for hotel." ChatGPT. https://chat.openai.com/
- Botpress. (2024, Feb 25). Botpress Cloud Documentation. Botpress Documentation.
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- Discord. (2024, Mar 1)