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# INSTALLATION & USER GUIDE

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INTELLIGENT REASONING SYSTEMS (IRS)

**MTech (Intelligent Systems) AY2022/2023**

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# 1 Objective

This document is intended to provide installation steps and how to run it. It is assumed that the user knows Python, JavaScript programming and knowledge reasoning and representation.

## 2 Installation

Step 1:

download [Node.js](<https://nodejs.org/en/download/>)

```
`$ npm install`
```

Step 2:

download [python3.6](<https://www.python.org/downloads/release/python-360/>)

```
`$ pip install -r requirements.txt`
```

Step 3:

Open the cmd in the computer and cd to this project files. Then cd backend, change the code environment to py36. Finally, type 'flask run --host=0.0.0.0'.

Step 4:

Run the code in VS Code or other software and type 'npm start' in the terminal, then using your phone to scan the QR code, or type 'w' to use this app in the web page.

Step 5:

If you want to out of the code, type control C to exit.

Notes:

Ensure that your phone has been installed 'Expo Go' software. If your phone system is IOS, use camera to scan. If not, user 'Expo Go' software to scan it. Do not forget to change the host in 'configure.js' to make sure using your local host or Wi-Fi host whether using it in the QR code or web page.

### 3 Error and Solution

In file:.\lib\site-packages\chatterbot\tagging.py

```
**Change** `yaml.load()` **to** `yaml.safe_load()``
```

```
**Change** `self.nlp = spacy.load(self.language.ISO_639_1.lower())` **to**
```

```
`if self.language.ISO_639_1.lower() == 'en': self.nlp = spacy.load('en_core_web_sm')`
```

```
`else: self.nlp = spacy.load(self.language.ISO_639_1.lower())`
```

## 4 User Guide

### Step 1: Register

Click the register button and write your username, password and the prefer default destination.

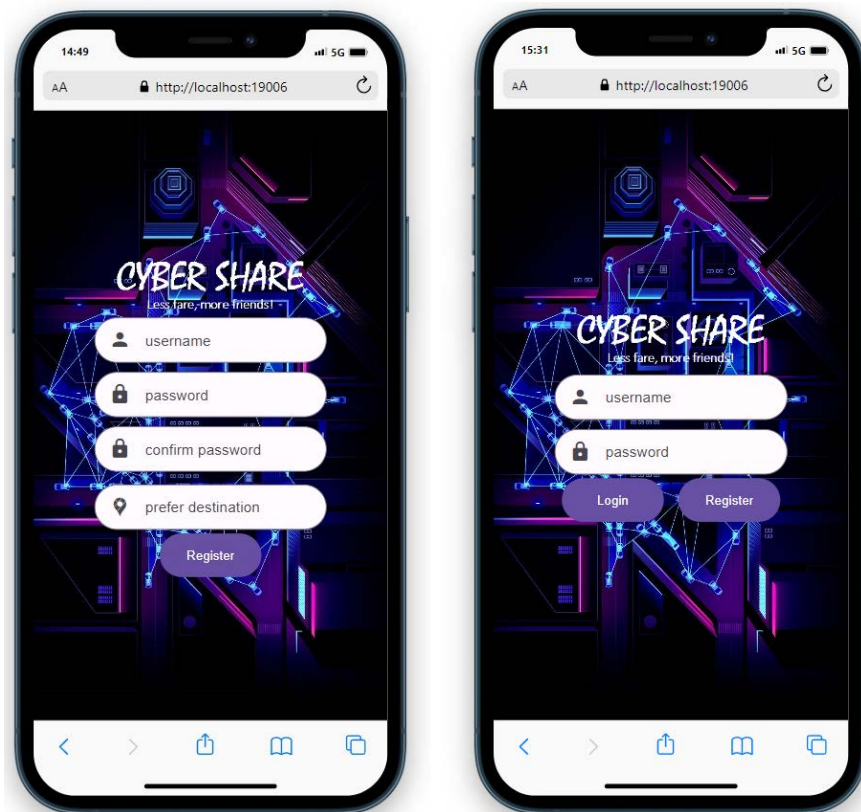


Figure 4.1: Register and login page

### Step 2: Login

Click the Login button and type your username, password.

### Step 3: Confirm drop-off point

Click the Chatbot button and confirm whether you want to change the default drop-off location.

If you do not want to change it, the system will obtain your default location. If you want to change it, system will ask you type your wanted location and return you the formatted address.

After you confirm the drop-off location, the chatbot will lead you go to the home page to select your pick-up time and the carpooling routing being generated for you.

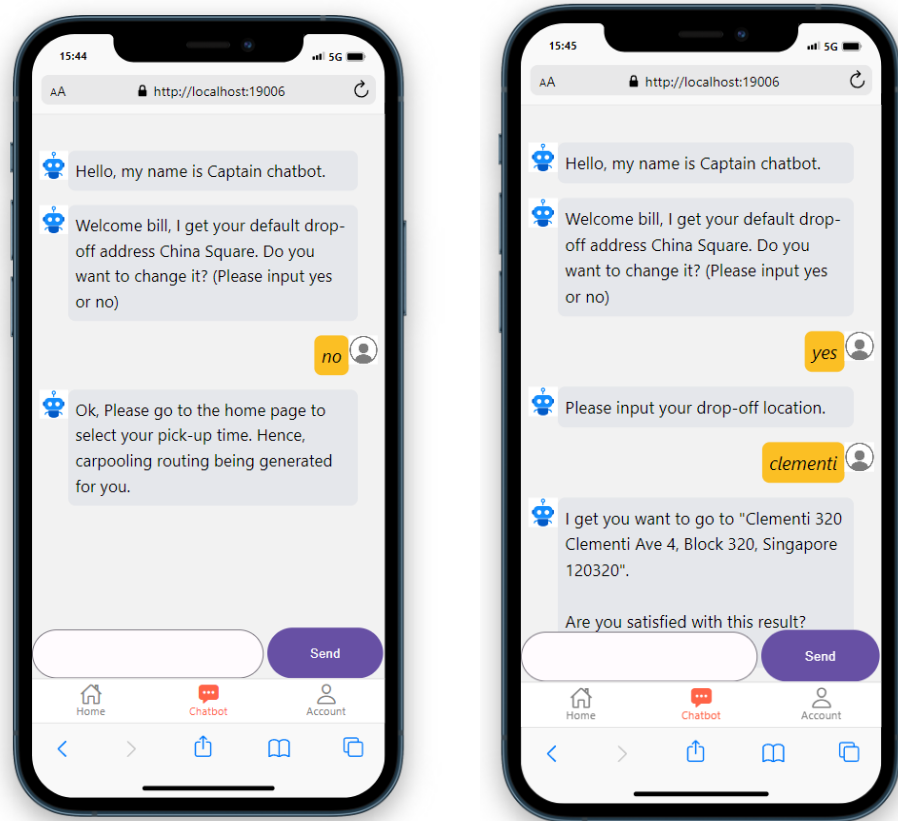


Figure 4.2: Chatbot page – obtain the drop-off location

#### Step 4: Select pick-up time

Go to the home page and click the 'now' button and select your wanted pick-up time.

#### Step 5: Routing generated

After confirming the time and the location, the routing is being generated.

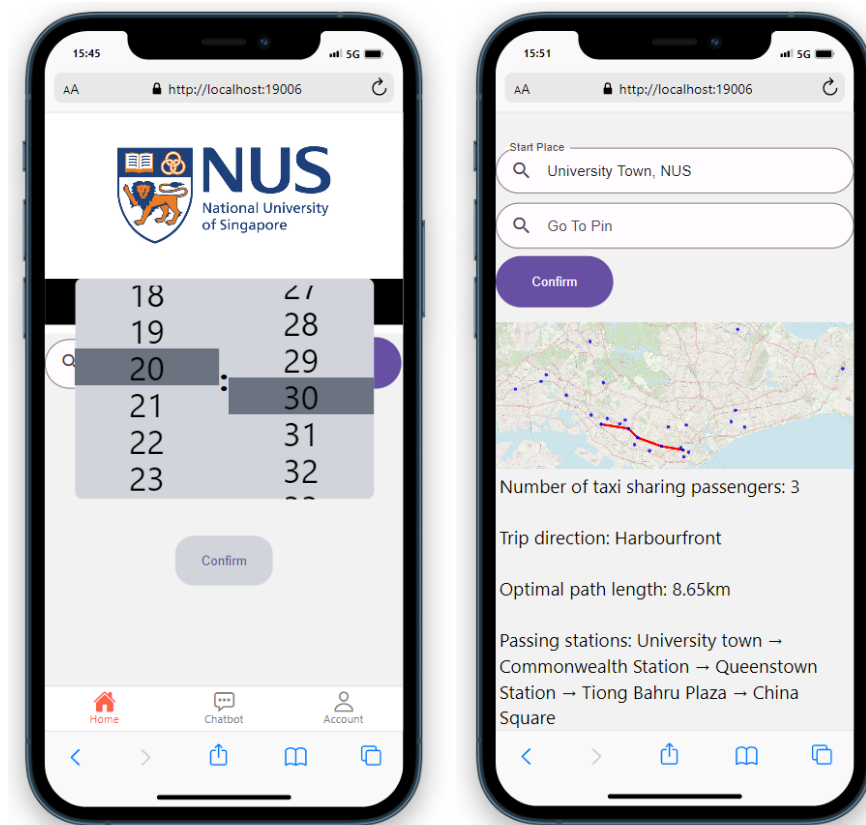


Figure 4.3: generated routing page

#### Step 6: Q&A

If you have other questions, you can come back to the chatbot page and ask questions. The trigger condition is that you first enter any value.