**Developer Manual**

1. This program is a restaurant finder for travel advice.
2. My program uses:
3. Web Speech API
4. Google Geolocation API
5. Google Place API
6. Dialog scripts:

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| Dialog Script |
| [When the user starts the system]   * System: Hello, welcome to use the intelligent restaurant finder system. * User: Hi / Hello. * System: Hello, how are you. * User: How to use this system / Help. * System: This system uses chatbot and different API. You can talk to the system by clicking the microphone icon, or type your words and submit. * User: Show me the location. (or \*\*location\*\*) * System: I am checking your location, wait a minute.   If location is found.   * System: Your current location has found. * User: Show me nearby restaurants/canteens/food. * System: Nearby Restaurants are shown on map as flags, click the marks to see more details. * User: Recommend me the top three restaurants. * System: What’s your name? * User: joe/tim/john/peter/mary/bruce/tom * System: Hello XX, I’ll recommend you the top three restaurants. * System: The top three restaurants are XXXXXX… * User: Search for XXX (restaurant’s name). * System: Please select the search card on top right conner to find XX. * User:Go back to home page. * System: Going back to home page.   The system goes back to index.   * User:Who’s your developer (or \*\*developer\*\*) * System: My father is Mark. You can contact him by email: [kaster0208@gmail.com](mailto:kaster0208@gmail.com).   When user type other things…   * System: Sorry, I can’t understand. |

1. AI techniques that I used:
2. Named Entity Recognition of NLP
3. User-based collaborative filtering recommendation technique.
4. Past user’s behavior data that I used:

I used the “dinning\_pattern.arff” training data (attached in assignment).

1. Any other issues with the system

This system is not very complete, still may have some delay and leak of user interaction. The search function is half-automatic and needs to improve.