DEVELOPER MANUAL

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1. TOPIC

The topic of this assignment is to build an intelligent chatbot for Travel agent.

2. Web services APIs

The web services APIs are used to integrate in the chatbot application, includes Google Place API, Geolocation API, and Web Speech API.

3. Dialog Scripts

Scripts	Dialog
Welcome Speech	System: Hello, I'm Alex. Welcome Travel agent
Introduction	User: Hi/Hello System: Hello, I'm Alex. How can I help you? User: How to use the system/help System: You can type or speak to me your enquire about travel
Geolocation API	User: Show my location System: I'm checking your location, wait a second
Decision Making	User: Should I travel to Victoria? System: No, there are Covid exposure premises in Melbourne. User: Where should I travel? System: When do you want to go? User: June/Next month

	System: Great, you should visit Hobart, there is Dark Mofo festival in June. Do you want to book hotel? User: Yes, give me a recommendation System: Great, I'm showing you the nearest hotels
Recommendation technique	User: Show me the top hotel System: The top 3 hotels are… User: Show me the top destination System: The top 3 destinations are
Opinion sentiment analysis	User: Thank you System: Are you satisfied with our service? User: Good System: Thank you, wish you have a good day User: Bad System: Thank you for your feedback, I'm still learning

4. AI techniques

The system is using natural language processing NLP technique, recommendation, opinion sentiment analysis, text extraction.

5. Past user data

The trained data is used for both hotel, destination and top rating scored from 5 to 1.

6. Limitation and issue

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The system has no major issue, however, it's not fully developed and integrated with big data and other APIs, AI techniques. So it still has limited features and data.

8. Password

No password required

9. Decision Tree

```
                    ┌─────────────┐
                    │    Covid    │
                    │   exposure  │
                    │    sites    │
                    └─────────────┘
                     /           \
            ┌─────────┐         ┌─────────┐
            │   Yes   │         │    No   │
            └─────────┘         └─────────┘
                 │                   /
        ┌──────────────┐           /
        │  Travel to   │         /
        │  elsewhere   │       /
        └──────────────┘     /
                 │         /
            ┌─────────┐  /      ┌──────────────┐
            │   Date  │ ──────► │  Book hotel  │
            └─────────┘         └──────────────┘
```