AIDERA

Team 2: Aakash Ranga, Abhijit Edlabadkar, Akanksha Tripathy, Arjun Bagla, Eehita Parameswaran, Rajalakshmy Iyer

January 20th, 2017

Project Charter

Contents

1 Team 2 Members

1. Arjun Bagla

2. Abhijit Edlabadkar

3. Rajalakshmy Iyer

4. **Eehita Parameswaran (Team Leader)**

5. Aakash Ranga

6. Akanksha Tripathy

2 Problem Statement

Individuals use innumerable applications everyday. Integration of essential applications in a simple chat service would be a useful tool for many. We intend to build **Aidera**, a Facebook Messenger bot that helps people access different services in one window. This bot will work as an everyday companion to enhance users experience by accessing information of their favorite applications.

3 Project Objectives

- Develop a Facebook Messenger bot (Aidera) using Node.js to create an assistant that acts as a common hub to connect users to multiple services.

- Use Yelp API to provide the user with resources like restaurant recommendations, rating of places etc. Aidera would also provide users the ability to search for places by cuisine.

- Use Airbnb API to provide the user with accommodation recommendations, Airbnb exclusive experiences etc. Aidera would also allow users to book listings through Airbnb.

- Parse JSON data packets received from service specific APIs to obtain and send relevant information to the user.

- Create a NoSQL database to store the information the bot requires from the user to process requests to the connected services.

- Use Natural Language Processing to better understand user's intent and hence improve conversation between the user and chatbot.

4 Stakeholders

- **Users:** Facebook Messenger users who want to access various services in a chat window.

- **Project Coordinator:** Chi Luo

- **Team Leader:** Eehita Parameswaran

- **Software Developers:** Arjun Bagla, Abhijit Edlabadkar, Rajalakshmy Iyer, Eehita Parameswaran, Aakash Ranga, Akanksha Tripathy

- **Project Owners:** Arjun Bagla, Abhijit Edlabadkar, Rajalakshmy Iyer, Eehita Parameswaran, Aakash Ranga, Akanksha Tripathy

5 Deliverables

- A Facebook Messenger chat bot that allows users to access various applications like Yelp, Airbnb etc.

- Use a Natural Language Processing API to understand intent of the user's message, accordingly give an appropriate reply and query relevant information to/from database.

- A backend system using Node.js algorithms to efficiently process information.

- A MongoDB database to help with context management to hold a smooth conversation with the user.