Document 2: Tech Stack CheatSheet

Objective: This document would provide brief details on the tech stack used for the ChatBot workshop

Nodejs:

Reference Link:

https://nodejs.org/en/

https://www.npmjs.com/package/botbuilder

Node.js is a JavaScript runtime built on Chrome's V8 JavaScript engine. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient. Node.js' package ecosystem, npm, is the largest ecosystem of open source libraries in the world.

As an asynchronous event driven JavaScript runtime, Node is designed to build scalable network applications. In the following "hello world" example, many connections can be handled concurrently. Upon each connection the callback is fired, but if there is no work to be done Node is sleeping.

Modules we have used for workshop:

RESTIFY

restify is a **node.js module** built specifically to enable you to build REST web services. It intentionally borrows heavily from express as it is more or less the de facto API for writing web applications on top of **node.js**.

BOTBUILDER

Bot Builder for Node.js is a powerful framework for constructing bots that can handle both freeform interactions and more guided ones where the possibilities are explicitly shown to the user. It is easy to use and models frameworks like Express & restify to provide developers with a familiar way to write Bots.

High Level Features:

- Powerful dialog system with dialogs that are isolated and that which can be composed.
- Built-in prompts for simple things like Yes/No, strings, numbers and enumerations.
- Built-in dialogs that utilize powerful AI frameworks like **LUIS**.
- Bots are stateless which helps them scale.
- Bots can run on almost any bot platform like the **Microsoft Bot Framework, Skype,** and **Slack.**

LUIS

LUIS is the abbreviation for Language Understanding Intelligent Service which is a Natural Language Processing Service provided by Microsoft.

https://docs.botframework.com/en-us/node/builder/guides/understanding-natural-language/#navtitle

FOOD2FORK

As a data source we would be using Food2Fork search API. The API accepts ingredients and responds with recipe information.

http://food2fork.com/about/api