Release Plan - SensAI - Oct 18, 2018 - Revision 1

Mayank Tiwari, Kalinda Fraser, Paulo Engelke, Youn Jae Kim, Abdurrahman Al-Omari

Goal: An interactive program that will be able to translate English sentences into code. Output will be focused on providing users with a skeletal framework of code based on given sentences.

- **Sprint 1**
  - As a user, I want to understand how an english text input can be categorized.
  - As a user, I want to be able to put in many different requests that is understood by the computer.
    - **(2)** Choose terms
  - Setting up Stanford CoreNLP Server
    - **(2)** Set up server.
    - **(4)** Choose and implement a classification system for terms
  - As a user, I want the program to understand common synonyms of keywords.
    - **(3)** Webscrape thesaurus.com

- **Sprint 2**
  - As a user, I want to receive a dynamically generated preliminary syntax output from a text input.
    - **(4)** Choosing a NN
    - **(6)** Choosing algorithms for determining success
    - **(8)** Implementing the NN in Keras/TF

- **Sprint 3**

As a user, I want to be able to input text and receive **working** code that can be easily merged with my existing code.

- **(5)** Improve neural network
- **(5)** Test neural network
- **(7)** Add more terms if time permits

Product backlog: I want to have memory from previous statements so a keyword can transfer as I continue entering input. I want a good user interface.

Sprint 1

Difficulty in hours (1-?)	A	K	M	P	Y	Avg
Choose Terms	1	1	1	2	1	1
Set up NLP server:		9	8	20	5	
Choose and implement a classification system for terms:		15	15	20	8	
Webscrape thesaurus.com		8	6	15		

Sprint 2

Difficulty in hours (1-?)	A	K	M	P	Y	Avg
Choosing a NN:		7	8	15	8	
Choosing algorithms for determining success:		12	15	15	10	
Implementing the NN in Keras/TF:		18	15	25	8	

Sprint 3

Difficulty in hours (1-?)	A	K	M	P	Y	Avg
Improve neural net:		10		10	10	
Test neural net:		5	8	5	5	
Add more terms in time permits:	?	?	?	?	?	?