

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

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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:	19	9	8	20	5	12
Choose and implement a classification system for terms:	17	15	15	20	8	15
Webscrape thesaurus.com	13	8	6	15		

Sprint 2

Difficulty in hours (1-?)	A	K	M	P	Y	Avg
Choosing a NN:	10	7	8	15	8	10
Choosing algorithms for determining success:	15	12	15	15	10	13
Implementing the NN in Keras/TF:	24	18	15	25	8	18

Sprint 3

Difficulty in hours (1-?)	A	K	M	P	Y	Avg
Improve neural net:	10	10		10	10	
Test neural net:	5	5	8	5	5	6
Add more terms in time permits:	?	?	?	?	?	?