

# Nucleus - First Iteration Demo Report

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## **1. The date and time at which you already completed this demo, and briefly describe any challenges that arose during the demo.**

We completed the Demo at Oct 30 2:30pm with Fujunku Chen at 6LE1 CEPSR. We do not find any challenges that arose during this demo.

## **2. The specific user stories and conditions of satisfaction that were demonstrated, with an explanation of any changes since your revised proposal.**

In this demo we showed several user stories, including valid passages and questions, invalid passages and questions, invalid passages and questions that contains special characters. In all the user stories the conditions are satisfied - that is, the user get the answer of from the passage. Besides, we showed database structure and demoed CRUD operations. We moved the database to Amazon RDS thanks to Fujunku's advice, so that members could access a remote database without configure locally.

After the demo and the intuitive talk with Fujunku, we would like to make a big improvement on our project. Before this demo, Nucleus are expected to answer a question based on a given passage. Now, the given passage is no longer needed. That is, the user can simply input a question, without any passage given, and get the answer we want.

Here is how we will do this. When a user asks a question, we use the wikipedia API to get the descriptions of the key words in this question, and use these descriptions as passage to apply our neural network model.

## **3. A brief discussion of your CI mechanisms, including which technology you used.**

Our pre-commit CI is pre-commit (see <https://pre-commit.com>), which checks credentials, json files, merge conflicts, etc, and run several test cases before commit.

Our post-commit CI is Jenkins. Jenkins is connected to our github repo through a webhook, and runs test cases on every push.

All of our pre-commit and post-commit configs and results are in the following url:  
<https://github.com/ysun647/Nucleus/tree/master/results>

**4. A link to the github repository where your entire codebase resides. Tag the revisions that were shown in the demo.**

<https://github.com/ysun647/Nucleus>

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