

Microsoft Spot Market Team 1 – Team 5

Maya Afshar, Raymond Tan, Alex Hale

9th February 2017

Past Weeks

During the past weeks (excluding scenario week), we focused on our weekly goals and achieving them through completing tasks and sprints created on VSTS. We managed to achieve most of our goals, that were creating the total plan until end of iteration one, documenting the API for spot market engine and planning implementation of them, decision on the API framework, further implementation of the bot framework and improvement of LUIS and learning about possible unit testing strategies for end of iteration one. Other than these, documenting the development process is still an ongoing task which has been done during the past weeks as well.

We have also managed to set up a meeting with the Masters students who are working on the same project for spot market engine, so that we can be sure that the capabilities of the API that we are trying to emulate will be realistic in comparison with spot market engine.

Meetings

Team Meetings

- 16th February – *All Team members present*
Discussion on the goals achieved/to achieve during reading week. Each member managed to do their own part in terms taking development ahead. Discussion on the short-term goals until the end of reading week, mainly the API Documentation, Improvement of LUIS Intelligence, and decision on web framework for API Implementation.
- 19th February – *All Team members present*
Final discussion before start of scenario week. Checking week achievements and if we have reached our weekly goals. Further discussion on API Documentation, Bot framework location handler and testing plans at the end of iteration one.
- 26th February – *All Team members present*
Team discussion on final version of API documentation and meeting with Harsha (Master student working on spot market engine). Discussing the following week plans and making questions for Client meetings and Meeting with Harsha.

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Client Meetings

Due to client unavailability, we did not have any client meetings in the past two weeks.

Tasks Completed

- Planning until the end of iteration 1 of the project
- Documenting the existing routes of Engine for API emulation
- API development decisions and planning
- Further work on bot framework and LUIS
- Setting up meeting with Harsha (Master Student)
- Continuing project documentation and initial structuring final version of website
- Starting learning Mocha for testing function units

Problems

We have managed to create a documentation on the API emulation for spot market engine. However, this implementation has brought up more work and planning to the table as it's now another vital part of the development.

Therefore, we will need to be very careful with the new timeline and make sure we stay on track of our plans, as if we fall behind, we will face a bigger pile of problems.

Also, we are not totally sure that this implementation will be exactly the same as what spot market engine will be capable of doing. Therefore, we are going to have a meeting with the Masters students whom are currently working on the named project, to confirm our findings and move ahead to development of the framework.

Estimations

We have been on track of our weekly goals by now, and there is not much problem going on the development of bot framework and LUIS engine.

Assuming that our findings of the spot market engine are close to the reality and we get a reasonable confirmation from our client regarding that, we will be able to stay on track of the new timeline and deliver the project on time.

Plan for Next Weeks

We already have our plans for finalising iteration one of the project and are trying to achieve them in the next weeks. Afterwards we will be able to move on to the second iteration which will be implementing the final features of the

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project and project delivery. We will also start working on the new website structure for the next weeks and fill in the relevant sections of website based on the guidelines.

Individual Paragraphs

Maya Afshar

In the past weeks, I planned the weekly goals of for iteration one and focused on the quality of the teamwork during the reading week as the team could not have an in-person meeting. I also researched a number of frameworks that Alex suggested to use for development of the API, especially a fast and interesting web framework in Haskell, named Yesod. I caught-up with Harsha Which as mentioned before is the master student working on Spot market engine, to make sure our implementation of API will be considering the capabilities of spot market engine.

On the development side, I created several utterances for the LUIS instance and added the entities for the chat-bot. I also worked with Raymond on further development of bot framework conversations and trying to work with User location input of the chat-bot. I have also started looking into Mocha unit testing for the bot function units as we move on towards end of iteration one.

Raymond Tan

Since the previous report, I have looked into the database structure of the recommendation engine and examined the fields that we would be using for receiving information from the engine and sending requests to it. Our own API implementation is currently still in progress. I have begun to lay out some groundwork in terms of program structure in order to make integration easier when the API is ready.

Alex Hale

I have continued my work on creating a dummy version of the Spot Market API, documenting the core routes which are implemented by the Spot Market Engine, which we will be needing in the bot, as well as the format of the data in the database. Based off this documentation I am going to begin implementing some of these routes such that development can continue unhindered, whilst also maintaining compatibility with the underlying Spot Market Engine. It may though also be necessary to extend the api to allow for some functionality of the Spot Market Bot to be better implemented, however all of these modifications will be documented and generally quite minor.