

# ATOS BLOCKCHAIN

Bi-Weekly Report: Issue 6 – 27/01/2017

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## OVERVIEW

The first week covered by the current biweekly report has been quite busy with assignments from UCL so it was quite difficult to put a large amount of work into the project. Nevertheless, we thoroughly prepared for the presentation on Friday the 20<sup>th</sup> of January. There being three slides to prepare and three team members, we each picked one slide to assemble and present and I feel our collaboration has paid off on the day. For the rest of the week, everyone has worked on their individual roles and everything seems to be proceeding fine.

## MEETINGS HELD. PROJECT COMMUNICATION

10.01.2017

This has been our first meeting for term 2. We spoke with John, our ATOS mentor, who wanted to generally check up on our progress. He seemed quite satisfied of the point at which we were and the plan we had for the coming weeks. We discussed technical details such as the best programming languages to use for the front end in order to have a smooth connection with the blockchain backend and he seemed to agree that HTML, CSS and JavaScript frameworks were a good choice. Finally, we decided to meet every Wednesday afternoon by phone to provide him with updates on our development of the proof of concept.

17.01.2017

This meeting was held for team members only and it was mainly focused on coordinating the presentation. We discussed the presentation and assigned the slides each member had to prepare. We also established to pay more attention to

the weekly distribution of points within the team in order to have a fair and just workflow.

19.01.2017

The main concern of this meeting was to arrange and perfect the timings of the presentation. Everyone had prepared their slide but we had to coordinate the transition between one speaker and the other.

24.01.2017

During this meeting team members discussed the general progress of the project. Andreas showed the team the first shares he had issued and everything seemed to run smoothly. Furthermore, Hirsch, our TA, told us that NodeJs would be a better choice for making the connection between front end and smart contracts so we issued Charles to learn and start using this framework. We finally set the goals to accomplish for the coming week.

Besides the previously mentioned meetings, several discussions between the team members have been conducted using electronic means of communication such as Microsoft Skype and Facebook Messenger.

## TASKS COMPLETED

- Wrote the first contract and got feedback from our TA.
- Prepared and delivered the presentation on our project.
- Created contracts for shares and transfers.

## PROBLEMS ENCOUNTERED

At this point in time, the project is at an early development stage, therefore there aren't yet many problems to be solved.

## PLAN FOR NEXT TWO WEEKS

- Understand the basics of NodeJS.
- Get the index.html of our main web app up and running.
- Start experimenting with the bridge between front end and backend.
- Have all the different types of contracts and start looking into the automation.

## PERSONAL EFFORTS BY TEAM MEMBERS:

### Andreas

For the past 2 weeks I have started writing the first smart contract for the back end of our app. Using the library Zeppelin, I ensured that the functions will be safe when executed. I am still working on the contract to ensure that everything flows as it should.

Furthermore, I met with Hirsch to go over the planning of the back-end for the project, which gave me some insight on how I would go about writing my contracts.

### Gabriel

Over the past 2 weeks, we have agreed on the technologies we would use and we have assigned roles to each team member. I was assigned the role of building the bridge between the web front-end done by Charles and the Solidity back-end done by Andreas.

I have started by making use of the Truffle development framework. After several initial issues I had with my Linux testing environment, specifically with NodeJS that was refusing to update to the latest version, I had to reinstall the entire set of tools. I have used TestRPC which allowed me to run a local blockchain. I have compiled and migrated contracts and the test app that comes with Truffle works fine, but there seem to be some issues when modifying contracts as they do not get updated after the build process. I will try solving these issues in the following days.

Me and my team-mates have also meet with Mr. Hirsch during our lab session which offered us some advice and we will be meeting him again in Monday and on the lab session on Tuesday to discuss more about how to proceed with the back-end and specifically with the bridge/connection between the back end and the front end. I am planning for next week to create a web page that makes use of Andreas' contract(s) in order to see how the two tie together.

Though we have started a little bit slow, I feel we are progressing with certainty.

## Charles

During the past two weeks I have played an active role in preparing the presentation, taking care of coordinating the timings and slides. I have also started looking into NodeJS as instructed, using learning tools such as Code Academy and online documentations. I have also planned a meeting with Hirsch, our TA, to discuss this platform and the bridge we can create with the blockchain backend.

My goal for the next two weeks is to have an initial prototype of the platform and start the communication with the server.