Minutes SOFA – FH TenL Informatics (HVD) **19.09.2017**

Date: 19.09.2017, 09:45 – 11:00
Location: Campus Venlo, Ambient Lab
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Name	*Short*	*Minutes*	*Participant*	*To be informed*
S. Brauer	SB		X	
L. Ehren	LE		X	
N. Nieuwenhuis	NN		X	
T. Derksen	TD	X		

Agenda:
1. What did we do last time
2. What we do today
3. Choice of technology stack

1. **Loek**: Fixed learning goals
   Nils: Changed project plan
   Tobias: Fixed learning goals
   Sjoerd: Nothing, simple (physical) presence, professional breathing

2. **Nils**: Change project plan according to customer feedback. Work on learning goals.
   Loek: Fix SRS according to customer feedback. Review updated project plan.
   Tobias: Working on database and database documentation
   Sjoerd: Work on learning goals, Research Java frameworks to use in backend

3. As a group we choose a technology stack.
   There were three choices to make because our architecture consists of 3 different layers: Database, Backend, Frontend.

   Database: For the database layer we had already gotten a sample database provided by the customer and written in PostgreSQL. So the choice of using PostgreSQL was logical. Furthermore Postgres provides some features which allows to ensure business constraints on database level which are not provided by other open-source databases.

   Backend: The backend should be able to handle HTTP requests and using JSON as datatype for input and output data. We decided to use Java. Java fulfills all requirements mentioned, furthermore due to the pre-knowledge of all group members, Java is a reasonable choice so no one needs to learn the language as a whole. Nevertheless, there are some Java frameworks which makes life a lot of easier. There needs to be some research to decide whether and which framework we should use.

   Frontend: The decision about a frontend technology were quite hard. The main requirement of the customer was, that it run inside a browser. Further requirements were: communication with an JSON API; framework allow good application structure; performance.

All the requirements are met by a few different JavaScript frameworks. We picked out two of them to further analysis: Angular and React.
After analysis, we found out that both frameworks meet all requirements perfectly, so we had a look at some example projects provided by Loek and Tobias.
After that we carried out a simple vote. The result was Angular 2 votes, React 1 vote. Loek refused to vote.
So the final decision is using Angular in its newest version for the frontend layer.