

Web & Mobile Development

DIT 341

Milestone 1

“Backend implementation”

Moritz Denke gusdenmo@student.gu.se
Mikael Jansson gusmikaja@student.gu.se
Fredrik Ullman gusullmfr@student.gu.se

University of Gothenburg
18/10 - 2019



Textual Description YourProblem.com

Today people have problems, that are often no real problems. We want to give people a forum to complain and to compare these problems, in pursuit of shifting their perspective back to a healthy state. We plan to use gamification to make this a competitive experience. If someone posts a problem, the other users are able to upvote it, to show that they share the opinion that the problem has actual importance. Similarly, users will be able to downvote problems, but just till 0, to ensure that no one feels bullied.

For likes and posts users shall get experience and climb ranks(that can be reached after surpassing a certain XP threshold), what ultimately should show on their avatars. Each user will have an achievement board, where the achievements that have been reached so far are displayed. To avoid spam, the users shall have a certain amount of “Complainergy” every day, used for liking or posting. We also want to offer statistics, like “complaint of the week” etc. These will also be shown on leaderboards.

Link to our trello board, containing use cases:

<https://trello.com/b/TnE3BWfx/use-cases>

We have developed different development-milestones such as:

1. Basic functionality
 - a. create a post
 - b. like a post
 - c. navigable UI
 - d. different forums
 - e. user login and basic account (maybe better via google etc. very advanced)
2. Advanced functionality
 - a. Admin tools
 - b. Admin section with statistics
 - c. share posts on social media
 - d. Filters for posts, names etc.
 - e. Safety features (SQL injections etc.)
3. Customizable experience
 - a. custom avatar
 - b. ranks
 - c. “Complainergy” (amount of energy to post and like in a certain time frame)
 - d. Visitor
4. Refinement
 - a. Google login
 - b. graphics
 - c. Statistics
 - d. Inclusion of google analytics

Our scope for the time of the project is to reach 2e. Other functionality will be added if needed in this time frame.



Addings and explanation to diagram:

- CRUD in diagram
 - it stands for the use of all CRUD functionalities, we chose to write this instead of adding 4 relationships, one for each functionality
- member entity in the diagram
 - we added the member entity with an overlapping disjoint in the diagram to use the attributes from member for admin and users without having to add them to each of them
- We are not completely following the conventions of an ER diagram since the diagram requested was any type of UML diagram
- visitor and social media are in the diagram, but not in the code because they will take more time to be implemented
- database, AtlasCloud and Heroku are in the diagram to express it in completion

diagram 1.1 ER diagram



