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| FUNCTIONAL | NON-FUNCTIONAL |
| - You should be registered to enter the platform. If you are not, you can only register.  - The only person who can ban a user or approves projects requested by other users is the administrator of the application.  - The system should be able to register a person just once, and if the person it is not banned.  - The application must hide the information of the users. You can only see the groups other users are in.  - Groups are done by a user. Once a user has created a group, he is a manager. He, and only he, can create another subgroup (there is no limit for how many subgroups you can create).  - A user can be the manager of several groups (there is no limit)  - There is no chat in the group.  - It should be capable of letting the users create as many groups as they want, but not  letting them to be at a subgroup if they are already on a group that is above that one.  - The manager of a group cannot delete another user from that group. The users can only unsubscribe from them.  - If a manager of a group gets banned nothing happens. He will still be in their group description, because he could be unbanned in the future.  - When a project created from a group or from a user gets approved or rejected you get a notification. The manager will always receive the notifications. The members of the group should turn on the notifications.  - The user who creates a project becomes a proponent.  - The users must create projects that will help the community.  - There are two types of projects:  · Infrastructure and Social projects.  - Once you vote on a project as an individual, you cannot unvote.  - The votes can be individual or done by a manager of a group. If it is done as a manager, he must specify which group is he voting for.  - If you are in a group and the manager votes for a project, you can leave the group for unvote.  - If you want to see the number of votes a project has, you need to have voted that project.  - If you are banned, all the projects you have voted, lose a point.  -There are reports:  · Popularity reports: Can be seen only if the user is supporting the project, the report contains only the number of votes.  · Affinity reports: Number of common projects supported by groups, only users who belongs to both groups can see them  - We search projects (the owner can check the status with the ID) and groups by name | - **Operational:** Saving the information of the application in a server: Every 30s.  - **Security:** You can log in and log out as many times as you want but if you fail on entering the password 5 times you will need to change it.  **- Resources:** Memory(Database): 1 Terabyte.  - **Performance:** Response time for every button: less than 0’5ms  Numbers of users: 1’95 billions.  Text: Must be clear and visible from at least 30cm.  - Registration: You must provide an ID, a NIF (with 9 characters) and a password.  - The users can have a state.  - They only can see the IDs of other users, but not their NIF or password.  - Groups (pubic): It must have a name, the manager of that group and can have a description.  - Projects:  · Infrastructure: It must have a title of 25 char maximum (there can be projects with the same name), a description with 500 maximum, district, a drawing, the city hall ID, a minimum number of votes, amount of money requested and the amount of money granted after having the minimum votes. If the project has been rejected or accepted.  · Social Projects: Specify if they are national or international, title of 25 chars max, a description of 50 characters max, the city hall ID, a minimum number of votes, amount of money requested and the amount of money granted after having the minimum votes. If the project has been rejected or accepted.  - The minimum number of votes for approving a project is set by the administrator. After that it cannot be changed.  - The state of a project can be checked with its ID (unique)  - If a project is not approved by the administrator, he can give a reason using 50 chars.  - If a project does not have the minimum number of votes to get founded for 30 days  since the project is approved by the administrator, it gets expired  - The minimum number of votes of a project, can only be seen by the manager of a  group or individual users, once they have vote it  - When a project receives the minimum number of votes, the representative of the  project submits it to an external organization, it is converted to an id and users can see  how the project is using this id (rejected, approved, …)  - Votes are dynamic, if a group is supporting a project and it is added a new member it  must be summed a vote, and the other way around, if someone unsubscribes or it is  banned (same approach for individual votes), its vote is removed  **-** The affinity reports are calculated by doing the number of people that are in eachgroup and support the projects founded by the other group, and theother way around. Then divide this number by the total number of users in both groups. (N12+N21)/(N1+N2) |