Social application. Desktop application.

**Users**

Three different types of users:

* Administrator
* Registered users, they can then become managers (of groups)
* Non-registered users (they can only register, nothing more, they cannot see anything).
* The administrator can authorize or reject a user. He can also ban users (its votes do not count) and unban them. If the user cannot enter because he is banned, we should inform about that. The admin must approve a project, until it receives votes (it is pending), if it is not approved, he can give a reason of 50 chars. There is only one admin account and he can see the projects he has created. When the administrator bans a user, we do not need to give any reason.

**Registration**

When register:

-Unique ID

-Unique NIF (9 chars)

-Password

The user must have a state. Users can see the usernames of the others.

**Groups**

We don’t have a chat, but we have groups.

We have group. Users can vote for projects. Individually, or if he is the representative of the group is like he gives all the votes of the group. A person can have several votes, for example, as user and as representative of a group. Users can be member of any groups, but they have some restrictions.

Groups must have a name, which should be unique and cannot be modified later. The person who creates the group becomes the representative of the group and this cannot be changed. A member can unsubscribe/remove the membership of a group. We can make unlimited subgroups (groups inside another group). Everybody can see the groups of others. We do not send messages in groups.

Structure of the group:

* Name (unique)
* (we can add a description)

Example of groups:

-G1

-G2

-G3

A person cannot be a member of G1 and G2 or G2 and G3 at the same time. But, yes of G1 and G3.

Users can subscribe and unsubscribe from a group.

Notifications in the groups, for example when a project is successful. The manager of a group receives them always, we can implement the admin to unsubscribe, the rest of members must turn them on if they want to get informed. The manager of a group is the only one who can create new subgroups. A user can be the manager of several groups.

If the manager of a group gets banned, nothing happens (the group becomes useless).

When a manger votes, it must be specified which group is he using.

**Projects**

Projects have:

* Title (max 25 chars)
* Description (max 500 chars)
* Amount of money they are requesting to create the project

The user who creates the project becomes the proponent.

Two types of projects:

* Infrastructure (with name and drawing)
* Social projects (national or international, with a name and description of 50 chars max)

Two ways for creating projects:

* Individually
* A representative of a group requests a project

There is a minimum of votes which is set by the admin, so that the project can go on.

The state of a project can be checked with its ID (unique) and projects can have same names.

If a project does not have the minimum number of votes (it is set by the administrator at approval time, then it cannot be changed) to get founded for 30 days since the project is approved by the administrator, it gets expired.

When a project receives the minimum number of votes, he sends the founding.

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, its vote is removed.

Users can vote as individual (this vote cannot be removed) or as member of a group (if they unsubscribe from a group, its vote is removed).

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.

**Reports**

Popularity reports of a project can be created if the user is supporting the project. The report contains the votes (it is only the number of votes).

Affinity report: Number of project supported by each group. Intersection of projects of both groups divided by the total number of groups.

**General notes**

We search projects and groups by name.

We can log out.