

A1 : Project Management

For this subject, we will be designing an information system with a web interface, designed to facilitate project management. The driving force that motivated this topic resides in the necessity of good communication inside a team, maximizing the group's efficiency.

The wide range of scenarios in which this software can be of use, from professional environments with large scale products to small student projects, only heightens the importance of this interface.

There are four types of users, the project coordinators, team members, visitors and system administrators. The visitor is a user that isn't logged in and it only has permission to search public projects, sign in or sign up. A user that isn't part of a public project can see the same as a visitor but can request to participate in it. If said user is part of the team of a project, it can access all the functionalities of the project, meaning that it can see the current sprints and tasks, comment on the project forum, complete and comment on tasks and even report another team member. The coordinators can do everything that a team member can, but they can also delete comments, create, delete and edit tasks and sprints, add and remove users from the team. The system administrator, besides having all the privileges of the other types of users, can also access all projects, delete them and also delete users. Both the team members and the coordinators are relative to a project, meaning that one logged in user can be a coordinator in a project and a team member in another. Once a logged in user creates a project, it automatically becomes its coordinator and, therefore, can promote a team member of said project to become one as well.

Once a user logs in or signs up, it will be taken to his work environment, where he has access to the projects that he is a member or coordinator. He can enter each project page, edit his profile or even check his notifications. The modifications possible to be made to one's profile are the name, username, email, photo and password.

Finally, regarding the notifications, these are created if the user is invited to a project or promoted to coordinator, if a thread made by him receives a comment, if a sprint is created in a project that he is a member or coordinator or, if the user is a coordinator of a project, a logged in user requests to be a part of it.

But what is a project? A project is a combination of tasks and sprints with a limit date. It is possible to have both at the same time. It has a coordinators, responsible for the creation of said sprints and tasks, and a team of users that are responsible for their completion. Inside a project there is also a forum that facilitates the communication between team members, with threads and comments inside them.

There are two types of projects: public and private. A public project can be accessed by anyone, logged in or not, and has visible to everyone a description and the names of its team members and coordinators. A private project isn't possible to be found by searching and is only visible to its team members and coordinators.

Regarding the sprints, it consists of a group of tasks that has to be completed before a limit date is reached. It is possible to have multiple sprints in a project. The tasks inside them can have different priorities. Once the limit date is reached, and there are tasks inside the sprint

yet to be completed, these tasks will be marked as incomplete and the coordinators can either delete them or extend the limit date of the sprint. It is possible to have tasks outside sprints, but these tasks will have no limit date and are considered not priority tasks.

A task can have comments inside them, and these comments can be edited and deleted by their creator, the project coordinators and the system administrator. These functionalities are the same regarding the forum, its threads and comments.

The forum of a project has as a goal the communication of the team. Every member of the team, including the coordinators, can create threads and comment on them. It can be used to talk about ideas, problems or even to tell jokes. A thread or comment can only be deleted by its creator, the project coordinators or the system administrator.

Revision history

Changes made to the first submission:

- 1 - More than one coordinator per project
- 2 - Notifications for invites, sprints created and requests
- 3 - Possibility to request access (become a member) to a public project
- 4 - Specification of the possible changes to be made to a user profile
- 5 - Specification of what is a project and what is an "active project"
- 6 - Specification of what is possible to see if a user is not logged in
- 7 - A coordinator can promote a team member to coordinator
- 7 - Text more organized
- 8 - Specification of a sprint
- 9 - Emails of students added

Grupo 1717, 9/2/2018

Ana Margarida Oliveira Pinheiro da Silva, up201505505@fe.up.pt

Luís Miguel Cardoso Lopes Correia, up201503342@fe.up.pt

Pedro Daniel dos Santos Reis, up201506046@fe.up.pt

Vicente Fernandes Ramada Caldeira Espinha, up201503764@fe.up.pt