Project management application

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Кристина Вичева Болашикова

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# Topic

The main idea of the assignment that was given to us by Scalefocus for our internship was to create a system that manages people and their activities in an IT company. The program had to contain options like listing, creating, editing and deleting the users, teams, projects, tasks and logs, assigning a user to a team, assigning a team to a project, etc., and the data had to be saved in a database.

# Author

* Christina Bolashikova
* Student at VSCPI, class 10 V
* Email - [kvbolashikova18@codingburgas.bg](mailto:kvbolashikova18@codingburgas.bg)

# Stages of realization

## Planning

The first thing that I had to face was understanding the requirements of the project. After reading the task thoroughly, I got a general idea of what was expected from me. The next step was to plan how I was going to realize it - the programming language, the structure and implementation of the code, the separation of work into the days I had to prepare, etc.

## Working

The hardest part of the working process was maybe getting myself to start. I hadn’t created a console application, which was connected to a database, beforehand, so I thought it was going to be verry difficult and that I would have a lot of hardships during the developing of the program and that is probably the reason why I didn’t do much work the couple first days. After a while however, I figured that this was something new for a lot of my colleagues too, so I finally started working slowly but surely. The first thing I did was to configure my database. After that I had to connect it with a console application and then It was time to start with the code. Whenever I needed help there was always someone there willing to help me, whether it was our mentor or my colleagues. I didn’t write very much in the diaries they gave us for us to put down what we’ve done for the day or what troubles we’ve encountered, but it still gave me a sense of how much work I had finished. As the days passed I began worrying less and less about the outcome of my solution because it was gradually starting to look more like how it should. When I finished with the program itself, I made the documentation and presentation.

## Presenting

In the end I had to present what I’ve done for 10 minutes, 5 of which had to be me talking and the rest were for questions from the audience.

# Used technologies

Languages:

* C++
* SQL

Programs:

* Microsoft Visual Studio
* Microsoft SQL Server Management Studio
* Microsoft Word
* Microsoft PowerPoint

Websites

* <https://github.com/>
* <https://slidesgo.com/>

# Difficulties

It’s true that I had to deal with a lot of troubles, but that didn’t stop me from pushing through and putting a lot of effort into the creation of the program. The biggest problems I encountered were probably these concerning the connection of the console application with the database and understanding how to use the data from the database in the console app.

# Future ideas

My solution is far from finished – there are still a couple of things that can be done to improve it. For example at the moment there are no option for assigning a user to a team or a team to a project. Another thing that needs to be fixed are the delete options. Right now, if the admin deletes a user, for example, this user is not removed from the rest of the tables where they appear, same thing with teams, projects, tasks and logs.