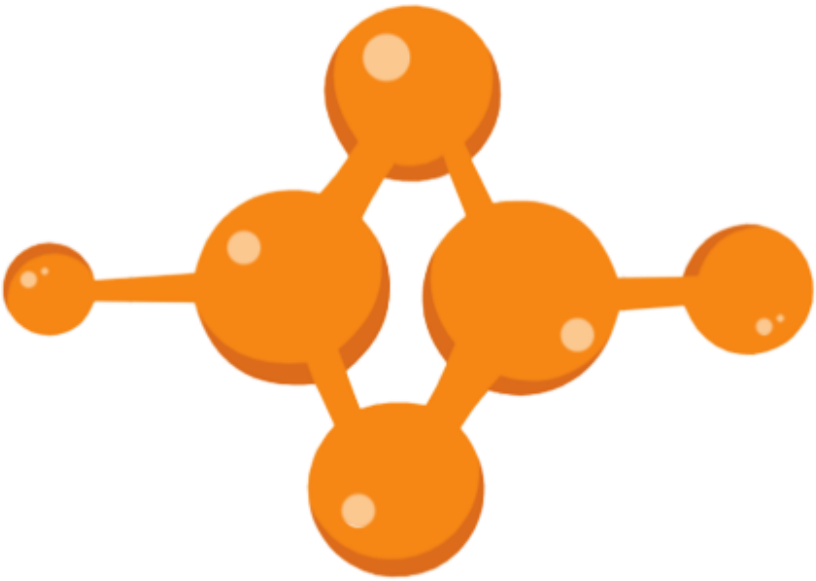

Kuddlemuddle

MAY 9, 2022

DAS KUDDLEMUDDLE

VSCPI

Contents

1. Project participants

- Yoanna Simeonova 10V – Scrum Trainer - YVSimeonova19@codingburgas.bg
- Veselin Stoyanov 10G – Front-end Developer - VNStoyanov19@codingburgas.bg
- Stoyan Ivanov 10V – Back-end Developer - SSIvanov19@codingburgas.bg
- Tereza Opanska 10V – Back-end Developer - TNOpanska@codingburgas.bg
- Kostadin Taligadzhiev 10A – QA Engineer - KNTaligadzhiev19@codingburgas.bg

2. Project description

Our task was to create a program using the programming language C++. The theme was biology. The only requirements for the project were that we use files, and the program has to have functionalities such as editing, deleting, and updating information. We managed to complete both tasks.

3. Summary of the project

3.1 Goal

Our goal for the project was to create an application that both students and teachers would benefit from. The main idea is that our program can be used as a learning application for any subject, but given that our topic is biology, we have mainly focused on that aspect.

3.2 Stages of realization

1) During the first stage we made our team according to the given team making criteria. After a brief consideration we formed our team and its positions. That took us roughly around one to two days after we held our first meeting. Around this time, we also chose the name for our team “Das Kuddlemuddle”. After finishing the work around the creation of our team we started to think of an idea for the project. We went through several suggestions but in the end stuck to making a learning application that would be beneficial to both teachers and their students.

2) The second stage we went through was working on the tasks we were given. This was probably the most difficult stage and the most time-consuming one. We encountered various problems during the realization of our idea. Fortunately, in the end we had a finished product and we had resolved most of our issues.

3) The third stage of realization was creating the PowerPoint presentation and documentation for our project. At this stage, we had to finalize our product and make our final changes.

4) The last and most important stage was our preparation for presenting our work. This was the most stressful period of the entire process because it was also the most essential one.

3.3 Difficulties

We experienced quite the number of difficulties especially when deciding whether to make the application using GUI but given the circumstances and the little time we had left, we quickly scrapped the idea and reorganised our plans so that we could come out successful in the end.

3.4 Programs used

- Visual Studio 2019 and Visual Studio code – for writing and sorting the code.
- Git and GitHub – for committing the project and sharing it.
- Word – for creating the documentation.
- PowerPoint – for making the presentation.
- Microsoft Teams and Discord – for communication.
- Adobe Creative Cloud – for logo editing.

3.5 Technologies used

- DB
  - JSON for Modern C++ - https://github.com/nlohmann/json
- Server
  - Crow - https://crowcpp.org/
  - JWT-cpp - https://github.com/Thalhammer/jwt-cpp
  - libbcrypt - https://github.com/rg3/libbcrypt
- Log
  - Grayllogger - https://github.com/ess-dmsc/graylog-logger
- Client
  - CPR - https://github.com/libcpr/cpr
- QA
  - Visual Studio Native Unit Testing - https://docs.microsoft.com/en-us/visualstudio/test/writing-unit-tests-for-c-cpp?view=vs-2019
  - Postman - https://www.postman.com/

- Deployment
  - Azure - https://azure.microsoft.com/en-us/
- Docs
  - Doxygen - https://www.doxygen.nl/

4. Demo of our project

(snimki)

Concerning the program, for a thorough documentation please check out our doxygen documentation in our GitHub repository.