**Team Profitix**



**PROJECT DOCUMETATION**

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# Our team

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| --- | --- | --- | --- |
| **№** | **Team Members** | **Class** | **Role** |
| **1** | Tsvetan Zhekov | 10 G | Scrum trainer |
| **2** | Nikolai Zhelev | 10 G | Developer |
| **3** | Yuan Tomov | 10 G | Developer |
| **4** | Kaloyan Iliev | 10 G | Developer |

# Resume

## Goal:

### Our team aimed to develop a financial management application, Profitix, tailored for users seeking an intuitive way to track personal finances. We chose C++ for its efficiency and versatility and employed the dialog utility (built on ncurses) to create a text-based user interface that works seamlessly on both native Linux and WSL.

## Stages of Realization:

### Planning and Brainstorming

#### After defining our roles, we began generating ideas and decided on creating a C++ financial app with an interactive TUI (text-based user interface). We outlined our core functionalities and planned the initial design.

### Learning and Experimentation

#### Since none of us had used dialog before, we spent time understanding how it works, learning how to build text dialogs, input forms, and menu navigation that would enhance user experience.

### Coding and Implementation

#### With the basics established, we developed features such as income and expense tracking, budgeting tools, and report generation. We worked collaboratively, incorporating feedback and refining our interface to make it user-friendly.

## Workflow:

#### After finalizing the design and core functions, we divided tasks based on roles. We iteratively worked on coding sections of Profitix such as income tracking, expense analysis, and budget management.

#### Used tools and language:

### C++

#### Known for its speed and robustness, C++ was ideal for building the core functionality of Profitix. It allowed us to implement efficient data handling for finance management.

### CLion

#### CLion served as our primary IDE for C++ development, especially helpful for cross-platform testing and building on WSL (Windows Subsystem for Linux). CLion’s features, such as code analysis, project navigation, and efficient refactoring, streamlined our workflow.

### Microsoft Word

#### Word was used for drafting and organizing documentation, making it easier to track our work and refine content for presentations.

### Microsoft PowerPoint

PowerPoint was the platform for creating our final presentation, allowing us to visually communicate the project's key points and future possibilities.

# Conclusion

## After many late nights and diligent collaboration, we successfully completed the first version of Profitix. The application offers essential tools to monitor and manage finances. Future improvements could include more user-friendly interface features and expanded financial tracking options. Through this project, we learned a lot about using dialog in a TUI and developed a product we’re proud of, which runs on both Linux and WSL.