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# ABOUT THE TEAM

|  |  |  |
| --- | --- | --- |
| TEAM MEMBER | ROLE WITHIN THE TEAM | GRADE |
| Zhaklin Yankova | Scrum trainer | 10B |
| Stiliyan Dimitrov | Back-End developer | 10B |
| Dimaya Noneva | Back-End developer | 10B |
| Stoyan Hristov | Back-End developer | 10B |

# INTRODUCTION

### THE IDEA

PayMate, our mission is to empower people to take charge of their finances with clarity and confidence. We are committed to developing a user-friendly personal finance app designed to simplify tracking income, managing expenses, and setting effective budgets. With an array of insightful tools, interactive visualizations, and detailed reports, we enable users to gain a clear view of their financial habits. Our app supports smarter financial choices, guiding users toward a more secure and balanced financial future.

### MAIN STAGES OF DEVELOPMENT

|  |  |
| --- | --- |
| WEEK | MAIN DUTIES |
| 1st Week | Creating logo and discussing ideas about the app.  Making the design and implementation our ideas through code. |
| 2nd Week | Developing the code  Creating the documentation and presentation. |

### USED TECHNOLOGIES

* C++ as the main programming language
* Microsoft Office 365 suite for documentation preparation
* Visual Studio 2022 as an integrated development environment.
* GitHub and Git as a cloud storage and control.
* Raylib as an external library for visualization
* Canva for design
* Teams as a communication point

### TABLE OF FUNCTIONS

|  |  |
| --- | --- |
| TYPE | NAME |
| int | main::windowInit() |
| void | startingScreen() |
| void | generateUserData() |
| bool | userDataExist() |
| USER\_DATA | loadUserData() |
| void | updateBalance(float newBalance) |
| void | dashboard() |
| void | saveDiagramData(const char\* username, const char\* housing, const char\* food, const char\* health, const char\* gifts) |
| void | void updateDiagram(float newDiagram) |
| void | budget() |
| void | statistics() |
| bool | editPassword(const string& username, const string& oldPass, const string& newPass) |
| void | profile() |
| void | DataAccess::addAccount(const string& username, const string& password, const string& gender) const |
| void | DataAccess::addAccountInfo(const string& monhtlyIncome, const string& savings, const string& balance) const |
| void | DataAccess::diagramData(const string& username, const string& essentials, const string& security, const string& personal, const string& social) const |
| const bool | Validate::doesAccountExist(const string& targetUsername) |
| const bool | Validate::isPasswordCorrect(const string& targetUsername, const string& targetPassword) |
| const bool | Validate::maleOrFemale(const string& targetUsername) |
| bool | Validate::containsUppercase(const string& password) |
| bool | Validate::containsLowercase(const string& password) |
| bool | Validate::containsDigit(const string& password) |
| bool | Validate::containsSpecial(const string& password) |

### BLOCK SCHEME

A diagram of a computer program

Description automatically generated