A logo of a document

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# **ABOUT THE TEAM**

|  |  |  |
| --- | --- | --- |
| Name | Role | Grade |
| Veselina Varadeva | Scrum-trainer | 10V |
| Gabriela Encheva | Back-end developer | 10V |
| Jaklin Yankova | Front-end developer | 10B |
| Lachezar Gospodinov | QA | 10A |

# **INTRODUCTION**

|  |  |
| --- | --- |
| № |  |
| 1 | **The idea:**  ***Timelock*** is a C++ application for registering and managing historical events, organized by eras using linked lists. Users can add, edit, search, and delete events, each containing details like title, topic, place, participants, and outcome. It features a clear console menu, user roles, data validation, and a well-structured codebase for maintainability and testing. |
| 2 | Where is it available:  Our collaborative work took place in GitHub and in order for the files to be accessible to everyone, they were uploaded to the repository. |
| 3 | Communication:  Communication is realized through Microsoft Teams. Thanks to all the features and the provided visualization – on screen communication and feedback are sufficiently complete. |
| 4 | Technologies:  The technologies used are Visual Studio for writing our code , C++ as development tool, Git and GitHub for collaborative work. Teams – connection and communication, PowerPoint – preparing a presentation, Word – preparing documentation, Excel – preparing QA documentation. |

# **MAIN STAGES OF DEVELOPMENT**

|  |  |
| --- | --- |
| № | Stages |
| 1st week | **Assembling the team:**  We gathered and distributed the roles, so each person can work in the field that is most competent with. We started thinking about an idea for the project. |
| 2nd week | **The process of creating:**  Every week we met and discussed how we were progressing with the project. Each member fulfilled their duties and if we fell behind with our project we helped each other. |
| 3rd week | **Finishing the project and presenting:**  After we finished with the project and the documentation, we fixed some bugs and made the overall user experience a bit more pleasant. After weeks of hard work and sleepless nights we finished the project and now it is ready to be presented. |

# **TABLE** **OF** **FUNCTIONS**

|  |  |
| --- | --- |
| Type | Name |
| int | extractYear(const string& text) |
| Int | findExtremeYear(const string& folderPath, bool findMin) |
| int | getConsoleWidth() |
| bool | isEarliestYear(int year, const string& folderPath); |
| bool | isLatestYear(int year, const string& folderPath) |
| bool | doesAccountExist(const string& username) |
| bool | isPasswordCorrect(const string& username, const string& password) |
| string | getCurrentUserRole() |
| void | userPanel(int page) |
| void | adminPanel(int page) |
| void | displayTimeline() |
| void | displayStartingScreen() |
| void | chooseAnswer() |
| void | displaySignUp() |
| void | signUp() |
| void | displayLogin() |
| void | login() |
| void | searchByDate(int page) |
| void | searchByEvent(int page) |
| void | searchByDate(const string& filePath) |
| void | searchByEvent(const string& filePath) |
| void | displayPrehistoricEventsInfo() |
| void | addEventAtBeginning(int page) |
| void | addEventAtEnd(int page) |
| void | deletePrehistoricEvents() |
| void | editPrehistoricEvents() |
| void | displayPrehistoric() |
| void | displayPrehistoricInfo(INFONODE\* head) |
| void | editPrehistoricInfo(INFONODE\* head) |
| void | savePrehistoricInfo(INFONODE\* head) |
| void | deletePrehistoricFile() |
| void | displayPrehistoricQuiz() |
| void | displayPrehistoricEvents() |
| void | saveAccount(const string& username, const string& password, const string& role,int progress) |
| void | loadAccounts() |
| void | loadUserProgress() |
| void | saveUserProgress() |
| void | centerText(string text) |
| void | printEndl(int num) |
| void | printStrRepeat(string str, int num) |
| void | displayQuizTitle() |
| void | displayEventsTitle() |
| void | displaySearchTitle() |
| void | appendNode(QUIZNODE\*& head, const string& line) |
| void | deleteList(QUIZNODE\* head) |
| void | displayInfo(INFONODE\* head) |
| void | deleteInfoList(INFONODE\* head) |
| void | editEventFile(const string& filepath) |
| void | deleteEventFile(const string& filepath) |

# **A diagram of a flowchart AI-generated content may be incorrect.BLOCK SCHEME**