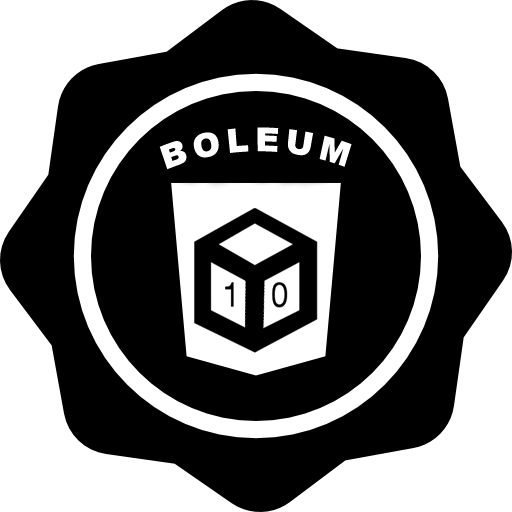
# TEAM BOLEUM

LOGIC GAME PROJECT



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Logic-Game-Project

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# IDEA OF THE PROJECT

The idea of the project is to create a game connected with the binary system called Booleo using c++.

# TEAM MEMBERS

|  |  |
| --- | --- |
| **№** | **Roles in the team** |
| **1** | Valeria Yaneva – Scrum trainer |
| **2** | Zhanet Petkova – Back-end developer |
| **3** | Hakan Chandar - Back-end developer |
| **4** | Victoria Bolashikova – QA Engineer |

# PROJECT DESCRIPTION

|  |  |
| --- | --- |
| **№** | **Description** |
|  | The idea in general.  The idea is to create a computer-based program connected with the binary system using C++ |
| **2** | How can you access the project?  You can find our project on GitHub. You can access the files by installing the repository or pasting this to your console - https://github.com/VVYaneva20/Logic-Game-Projects.git |
| **3** | Teamwork.  Our main communicating platform was Microsoft Teams. During the project, we met almost every day, so that everyone can catch up with the work. |
| **4** | What technologies are used?  The technologies we used are **Visual Studio** as our code editor, **GitHub** for collaborative work, **Microsoft Teams** for connection and communication, **PowerPoint** for creating the presentation, **Word** for creating documentation, **Excel** for the QA tests, and **Photoshop** for our logo. |

# PERFORMED TASKS

|  |  |
| --- | --- |
| **№** | **Completed tasks** |
| **1** | Create a menu  Using the menu you can navigate through the whole application. |
| **2** | Create “Person vs. Person” mode  This part of the application provides the option two individuals to play the game. |
| **3** | Create “Person vs. Computer” mode  This part of the application allows a user to play against a computer. |
| **4** | Create “Person vs. Person with not-cards” mode  At this level, the users can change the initial cards |
| 5 | Create “Person vs. Computer with not-cards” mode  At this level, the users and the computer can change the initial cards |
| **6** | Create QA documentation  In the QA documentation, you can find a description of steps and actions that have been taken to test the functionality of our program. |
| **7** | Make the README file  In the readme file, you can get a quick overview of the project. We have added the programming languages we have used and a block diagram. |
| **8** | Make the documentation  The documentation provides very useful information in terms of the technical aspect. You can learn pretty much everything by reading it. |
| **9** | Make the presentation  We have created a short presentation to quickly show what we have done. |

# FUNCTIONS

MultyPlayer.cpp

|  |  |
| --- | --- |
| **Function** | **Description** |
| void gotoXY(int x, int y) | This function takes coordinates from the console |
| void shuffleBoolCards() | This function reorders the initial cards |
| void shuffleCards() | This function reorders all cards |
| void removeCard(int card, int\* player) | By using this function the user can discard a card |
| void takeCards(int cardsNeeded, int\* player) | By using this function the user draws a card from the deck |
| void chooseCard(int\* player) | By using this function the user selects a card |
| void printCards(int cardsNeeded, int\* player) | This function displays the user’s cards |
| void printPositions() | This function displays the available positions |
| void placeCard(int\* playersCards, bool\* boolCardValues, int player, bool\* occupiedPositions, bool\* cardValues) | By using this function, the user can choose where to put a card. This function also checks if the card can be put in the chosen position. |
| void firstPlayer() | This function stores the information about the first player |
| void secondPlayer() | This function stores the information about the second player |
| void beginningOfTheGameWithTwoPLayers() | By calling this function the game with two payers stars |

# BLOCK DIAGRAM

