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1. Team

Roles in the team

- 1 Gabriel Yanchev Scrum Master
- 2 Zlatin Lazarov Back-End developer
- 3 Cvetomir Stoilov Front-End developer

2. Introduction

Introduction

- 1 What is the product?
 - CodeNova is a cutting-edge project designed to create and sort genetic sequences based on user-defined traits. It allows users to specify desired characteristics, and the tool intelligently generates plausible DNA/RNA sequences corresponding to those traits.
- 2 Main stages in the realization? First Week – Create the idea and discuss how to go about it Second Week – Study our field Third Week – Start programming Fourth Week – Make final touches
- 3 Communication?

workplace.

- Communication was realized through Microsoft Teams. Thanks to all the features and the provided visualization on-screen communication and feedback were sufficiently completed.
- What technologies were used?
 We used Visual Studio 2022 as IDE, C++ as a programming language,
 Microsoft Word for documentation, Microsoft Teams as a communication
 tool, Adobe Photoshop and Adobe Illustrator for the logo, Microsoft
 PowerPoint as a presentation tool, and Git and GitHub as a collaborative

3. Method and manner of implementation

Method and manner of implementation

- 1 Productive work.
 - The tasks are presented in a way that everyone is aware of what's done and what isn't so that teamwork is more efficient and productive.
- 2 Distribution of tasks
 - Each task is assigned to the team member who's most familiar with the field and would be able to complete it in the best and most efficient way possible.
- 3 Communication
 - The progress was constantly observed by the Scrum Master. Weekly meetings were held so that everyone had up-to-date information about the state of the project and tasks could be distributed evenly and efficiently.

4. Summary

The program helps comprehend genetic sequences in a fun and accessible way. It has generating and sorting features and can also display the traits related to a sequence next to it for even better user experience.

5. Libraries

Which Libraries did we use?

- 1 <Windows.h>
 - It contains declarations for all of the functions in the Windows API.
- 2 <conio h>
 - It includes inbuilt functions like getch() and clrscr().
- 3 <vector>
 - It includes vectors and functions related to them.
- 4 <map>
 - It includes maps and functions related to them.
- 5 <string>
 - Provides support for such objects with an interface similar to that of a standard container of bytes, but adding features specifically designed to operate with strings of single-byte characters.

6. Block scheme

