**Final Project**

**Programming I – CS 121**

**“Connect Four Game”**

**Team Members:**

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1. **Description:**

* The application is about the famous board game, “ Connect 4 “. It’s a two-player game in which players gets assigned random colors. The objective of the game is to keep connecting four pieces and the game ends when the board is full. at the end, the player with the higher score is the winner. My application has two modes (vs Computer/ vs Player) and multiple other features too!

1. **Features:**

* **The game has two modes:**

1. **Vs Player:**

* You can play against users next to you and have a lot of fun!

The game is very competitive, be careful! The player with the higher score wins the game.

1. **Vs Computer:**

* You can also play against the computer, the computer is smart enough to know which column is available for him and he will try to score more points.
* **Save / Load:**
* You can always save the game at any time by accessing the in-game menu and pressing Save.
* If you hit quit from in-game menu accidentally it will be saved.
* You can load up to the last three saved games from the main menu.
* **Undo/Redo:**
* You can undo your move at any times in the game and for as many times as you like.
* If you accidentally made a move, you can fix it by undo-ing.
* You can also redo the moves up till the first undo-ed move.
* The Undo/Redo is available in both modes.
* **The game board has a nice style, colorful look and it won’t harm your eyes.**
* **You can view top players from the main menu.**
* **The player with the higher score will be put in the high scores list which is printed at the end of the game too.**
* **If an old player scored a higher personal score record, his score will be updated in the list.**
* **There is always a display showing which player should play, the number of moves for each player, the score of each player, the time passed since the game started.**
* **You can edit the game configurations (Dimensions of the board & Maximum number of high scores shown at the end of the game) through the XML file which should be linked next to the game (if you put it somewhere else on PC, the game will ask you for the correct path).**
* **You can quit the game any time you like.**

**3. Design Overview:**