

COLOR SWITCH

CSE201: ADVANCED PROGRAMMING

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-2019128

-SOURABH SAINI

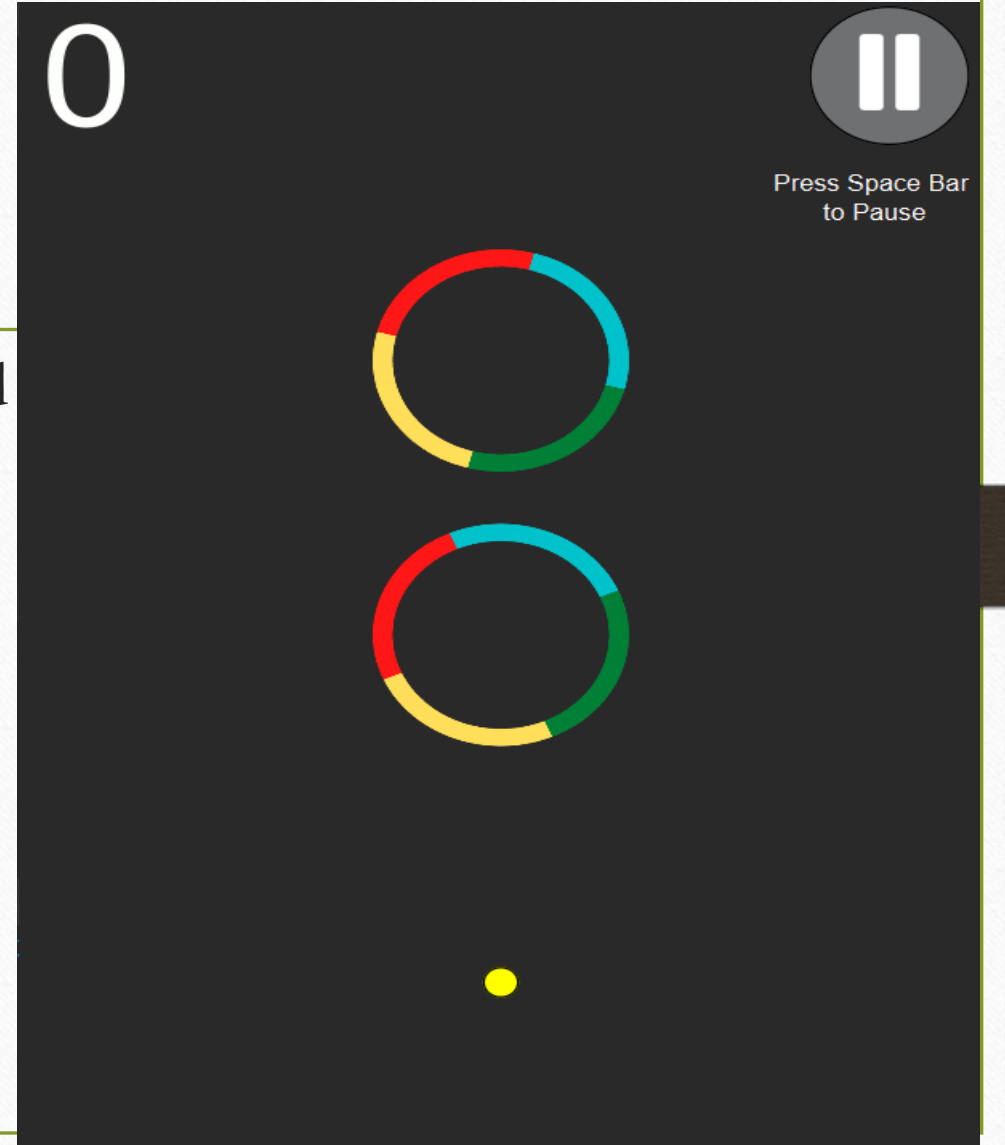
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Implementations and Features

- All scenes have been made through FXML.
- To move Ball, obstacles, Stars and Color changer Animation Timer have been used.
- To move ball upward mouse click have been used and managed from FXML file.
- Load Game menu have been used to save the game states.
- Exit game exits without saving game to save it you have to save it from save button.
- Colour changer and stars have been placed at random intervals.
- The fall of ball is accelerated.
- If you do not have enough stars than you can not revive and get a notification of Not Enough Star.

Design Patterns

- Singleton : One instance of database is good enough for this game.
- Façade : The game is implemented on the basis of menu.
- Iterator : Map entry has been used in HashMap as Iterator.



Individual Contributions

- Vishwajeet

- Collision detection
- Animating the game: Ball movement and obstacle movement.
- Enabling and stopping animations.
- UML: Use Case diagram
- Made Ball class
- Managed Classroom submission.
- Reviving of Player.
- Added Music to game

- Sourabh

- FXML files : Load Game, Main Game, Continue Game, Pause Game, Menu
- GUI: Buttons, Obstacles, Stars and Color Changer.
- Serialization: saving game.
- Deserialization: loading of game and continue option.
- Managed GitHub.
- UML: Class diagram.
- Added bonus pat in game

Bonus Features

1. Added Extra Obstacles : Different Combinations of Obstacles.
2. Added Music in the background.
3. Added a big Star that gives Extra Stars/1 lives as bonus.