

Color Switch Game

**Made by :
Nitin 19181
Shanu 19104**

The left side video represents our Main Page .

Main Page includes :

→ *New Game Button :*

Allow user to start the game from fresh.

→ *Resume Game Button :*

Allow user to continue to play from previously saved games .

→ *Exit Game Button :*

An Confirmation Dialog will be generated asking to confirm exit game operation.

→ *Setting ImageView :*

Allow user to choose initial ball color .

(RED/AQUA/YELLOW/MAGENTA)

→ *Help ImageView :*

This will lead the user to an youtube video showing how to play.

→ *Some Smooth Animations*



→ **Pause ImageView** : By clicking it, the game will pause . We can either resume the current game or can go back to main page.If we choose the later , a confirmation dialog will open asking to confirm the operation.

The left side video represents our Game Play.

Game Screen includes :

- **A Ball** : Ball will jump up to some distance by pressing space from keyboard. Otherwise it will fall against the gravity.
- **Color Switcher** : This can change the color of ball .
- **Stars** : By collecting a star , we collect 1 point. These points can allow us to come back to game again if we collided with obstacles.
- **Score** : This represents the total points we collected during a game play.
- **Save ImageView**: This will allow user to save the current game. By clicking the resume Button in Main Page we can continue this game later.
- **Obstacles** : We have created total 7 obstacles of different kind which moves down as the ball jumps up. If the ball gets collided with an obstacle , another window will be generated . This window contains the current score, high score and our retrieve points. From this either we can goto a new Game , exit to Main Page or we can use our 3 retrieve points to go back to the current game.

Work Done by both of us :

Shanu

- *Obstacle Alignment*
- *Save functionality*
- *Reload functionality*
- *Obstacle movement*
- *Pause Window Design*
- *Collision Window Design*
- *Collision Detection*
- *Score updation*
- *Change Level functionality*
- *Initialising Game Screen*
- *Retrieve ImageView Design*
- *Go back ImageView Design*
- *Continue ImageView Design*
- *Reload ImageView Design*
- *Color Switcher Animation*

Nitin

- *Main Page Design*
- *Main Page Animations*
- *Obstacle Design*
- *Obstacle Animation*
- *Ball Design*
- *Ball Animation*
- *Sound Effects*
- *Pause and Resume functionality*
- *Retrieve to game functionality*
- *Go back to Main Page functionality*
- *Save ImageView Design*
- *Pause ImageView Design*
- *Game Background Design*
- *Star Design*
- *Color Switcher Design*

Bonus

- *Instead of 2-3 Obstacles , we created 7 Obstacles in total.*
- *Added Settings (Allowing user to choose initial ball color).*
- *Added Help (Link to a youtube video to show how to play).*
- *Added Sound to Main Page.*
- *Added Sound to every ImageView and Button Click.*
- *Added Sound to Game Play.*
- *Added Sound to Collision.*
- *Added Sound to Confirmation(alert) pages.*
- *Added ToolTip Property for both Setting and Help.*