



Coding Challenge The Return Journey

In this coding challenge, you are asked to write a small web game that recreates the iconic green light/red light game from Squid Games. The game will display a box that changes color between green and red. The goal of the game is to get to n clicks on the green box within y seconds.

You should write all your game logic in the *GreenLightRedLight* component. By default, it should display a button with the text "Start Game." This button will be used to start the game.

Evaluation Criteria:

This Challenge is used to identify the expertise level of the candidate from Beginner to Hard. Do not give up as you would be evaluated step-wise. We would recommend you complete the task if possible! This will help you stand out from the crowd.

Steps to be executed in the below-mentioned order:

1. User Registration:

Collect the following details (being creative has a bonus 😊)

- a) Name
- b) Email
- c) Mobile Number
- d) Difficulty Level - Easy, Medium, Hard

2. Once the button is pressed, your app should display a box that changes its color on a random basis. Ideally, it should change no sooner than 1s and no later than 2s.



3. If the users click on the red box or if the time has expired, they failed the game and you should display Game Over! message and end the game immediately.
4. If the users click on the green box, you should increment their score count by 1. If they manage to click the green box n times within y seconds, they win and you should display You win! message.

EASY	MEDIUM	HARD
$n = 10$	$n = 15$	$n = 25$
$y = 40$ secs	$y = 40$ secs	$y = 40$ secs

Code Regulations:

1. Responsive Code is mandatory.
2. Bug-free & use of required Frameworks is appreciated.
3. Include necessary Form field Validations.
4. Error Handling is the real beauty of coding.
5. Usage of Effective names for Classes/Functions/Variables/Methods/Hooks will be appreciated.
6. Comment code wherever necessary.
7. Follow clean directory & code structure

Bonus Challenge:

1. Inclusion of Leaderboard using State Management Options
2. Show total time being reduced.