# Color Me

IIHT

Time To Complete: 2 hr

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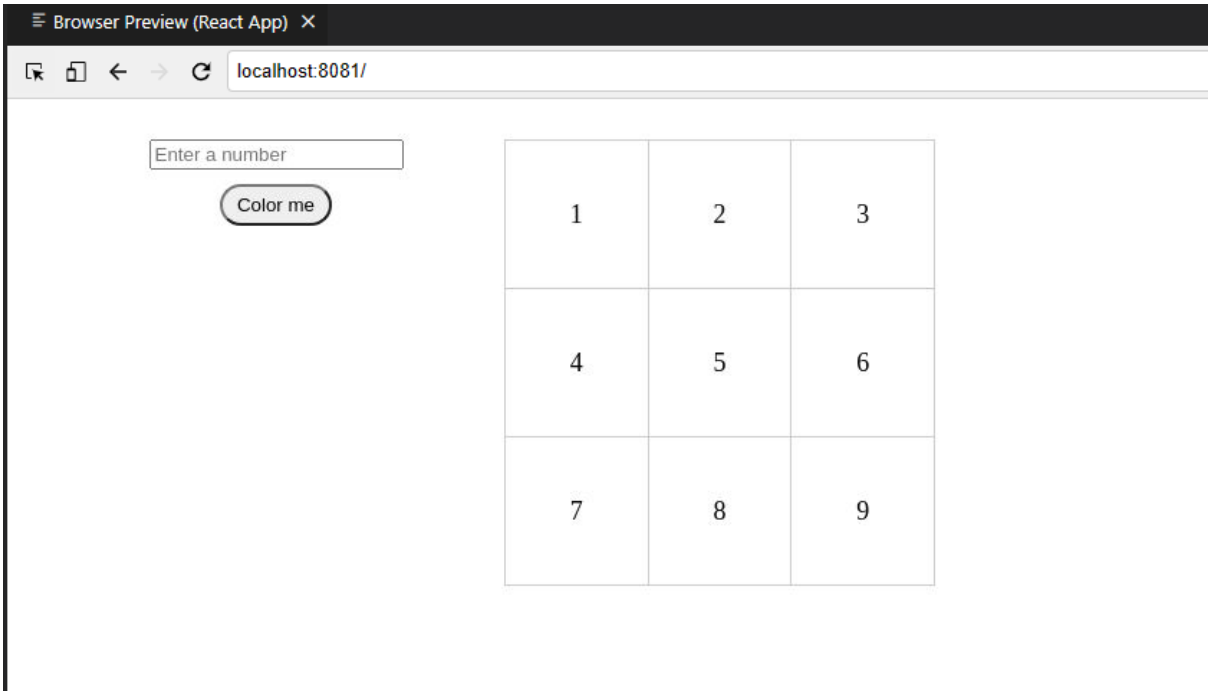
# 1 Problem Statement

"Color Me" is a Single Page Application (SPA) that empowers users to create a 3x3 table populated with numbers ranging from 1 to 9. Users can input any number within the 1 - 9 range and utilize it to highlight a specific cell in the table with their chosen color.

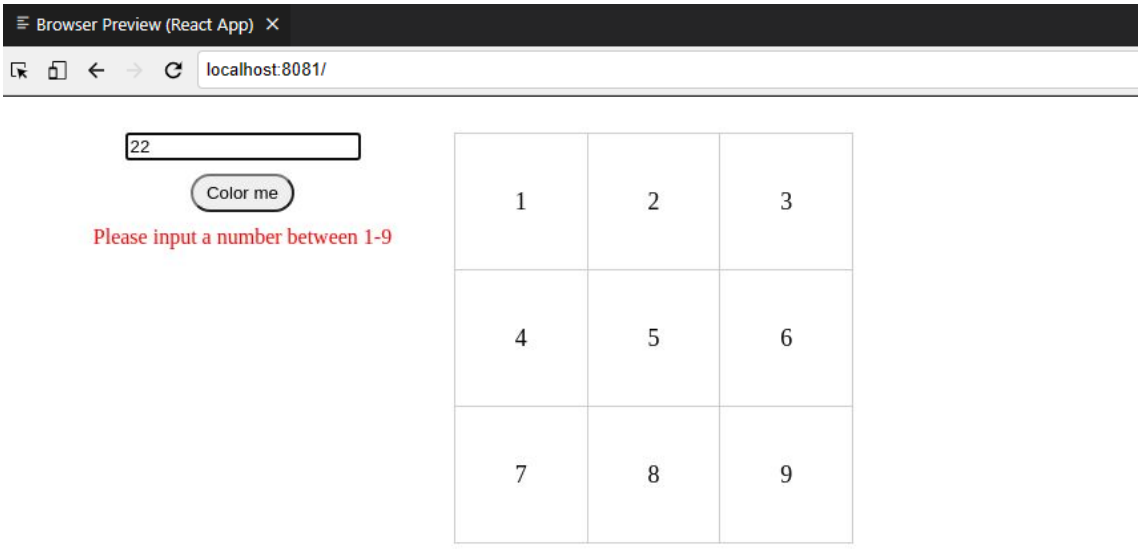
# 2 Proposed User Registration Wireframe

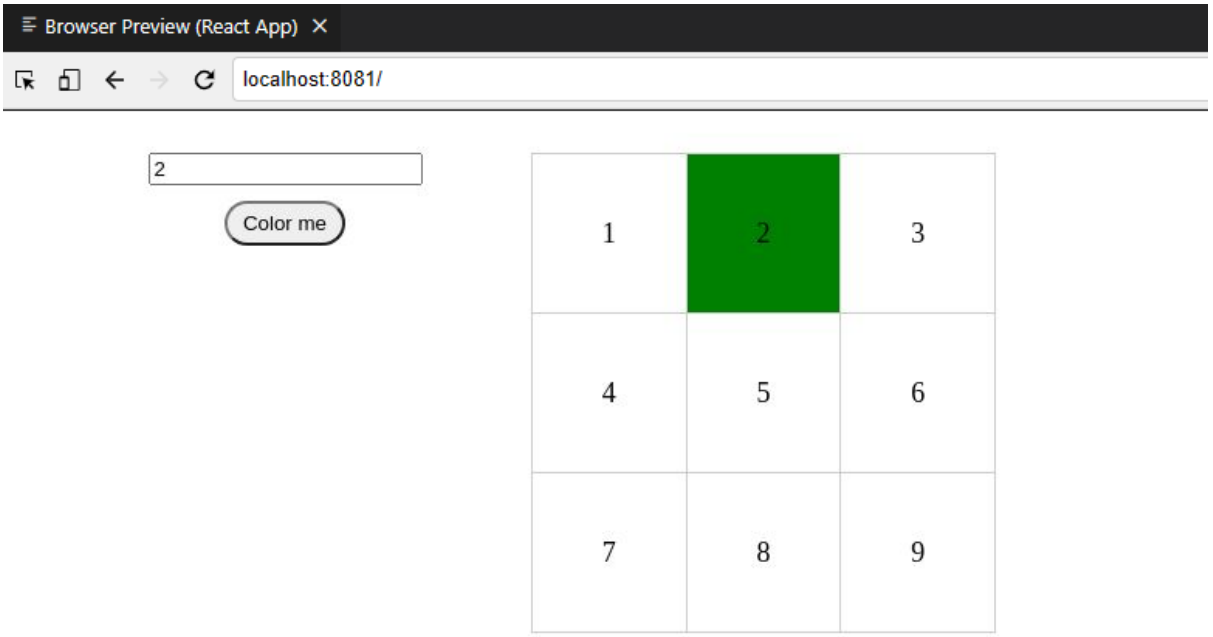
UI needs improvisation and modification as per given use case and to make test cases passed.

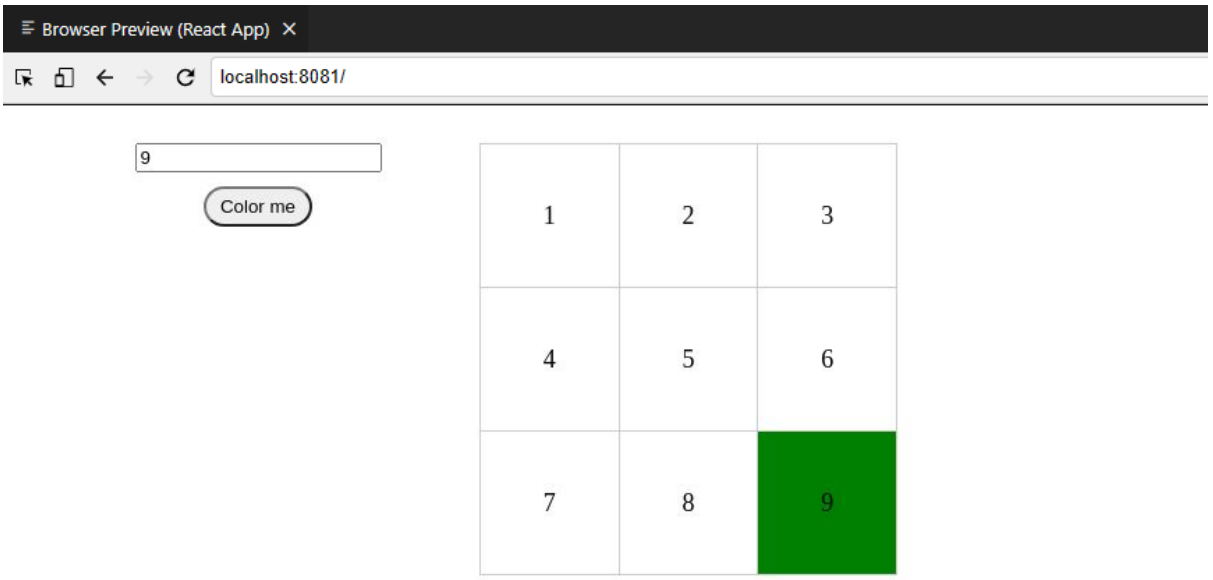
## 2.1 Welcome Page



## SCREEN SHOTS




Browser Preview (React App)
localhost:8081/
2
Color me
1
2
3
4
5
6
7
8
9


Browser Preview (React App)
localhost:8081/
9
Color me
1
2
3
4
5
6
7
8
9

# 3 BUSINESS-REQUIREMENT:

As an application developer, develop the Color-Me (Single Page App) with below guidelines:

| User Story # | User Story Name | User Story |
|---|---|---|
| US_01 | Welcome Page | As a user I should be able to visit the welcome page as default page.<br><br>Acceptance criteria:<br>1. Users are required to generate a table consisting of numbers from 1 to 9 in a 3x3 format.<br>2. The Color me button should be disabled by default, and should be enabled when you fill any number.<br>3. Input number field is mandatory. If any constraint is not satisfied, a validation error “Please input a number between 1-9” message must be shown.<br>4. After entering any number between 1-9 in the given field the Color me button should be enabled and after clicking the button the respected cell should be colored as mentioned in the images above. |

# 4 VALIDATIONS

- All required fields must be fulfilled with valid data.
- Number field is required and on invalid number in field if entered excluding numbers from 1-9, “Please input a number between 1-9” message should be shown.
- In the starting “Color me” button should be disabled.
- Only after validating fields, “Color me” button should be enabled.
- Once we click on Color Me, that input number box must be filled with color and previously colored (if any) box must be filled with white color(default color).

## 5 CONSTRAINTS

- You should be able to press the “TAB” key and “SHIFT + TAB” to navigate from top field to bottom field and vice-versa.
- On clicking the “Color me” button, the particular entered number cell must get colored.
- “Color me” button will be disabled until all validations are fulfilled.
- If input is not between 1-9 then “Please input a number between 1-9” error should be shown.

## 6 MANDATORY ASSESSMENT GUIDELINES

1. **All actions like build, compile, running application, running test cases will be through Command Terminal.**
2. **To open the command terminal the test takers, need to go to**
   **Application menu (Three horizontal lines at left top) -> Terminal ->New Terminal.**
3. **This editor Auto Saves the code.**
4. **If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.**
5. **These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.**
6. **To test any Restful application, the last option on the left panel of IDE, you can find ThunderClient, which is the lightweight equivalent of POSTMAN.**
7. **This is a web-based application, to run the application on a browser, use the internal browser in the workspace. Click on the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.**
   **Note: The application will not run in the local browser**

8. **You can follow series of command to setup React environment once you are in your project-name folder:**
    a. **npm install -> Will install all dependencies -> takes 10 to 15 min**
    b. **npm run start -> To compile and deploy the project in browser. You can press <Ctrl> key while clicking on localhost:8080/8081 to open project in browser -> takes 2 to 3 min**
    c. **npm run test -> to run all test cases. It is mandatory to run this command before submission of workspace -> takes 5 to 6 min**
9. **You may also run "npm run jest" while developing the solution to re-factor the code to pass the test-cases.**
10. **Once you are done with development and ready with submission, you may navigate to the previous tab and submit the workspace. It is mandatory to click on "Submit Assessment" after you are done with code.**
11. **You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.**