

SUDOKU GAME

“Solving Sudoku is like solving life’s problems, one square at a time.”

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Introduction

Sudoku, a globally adored number puzzle, challenges players to fill a 9x9 grid with numbers 1 to 9. Each row, column, and 3x3 subgrid must contain these digits, testing one's logic and patience. Deceptively simple, Sudoku offers an addictive mental workout, enhancing concentration and problem-solving skills.





Introduction to React

- **Component-Based Architecture**
 - **Virtual DOM for Efficient Rendering**
 - **State Management**
 - **Reusable Components and Libraries**
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PROJECT OVERVIEW

This project is basically based on react . In this there are functions and other components used. In this we have App.js file that contains the whole code for the game and in CSS file we have the styling given. In this we are given 3 Buttons at the bottom. These buttons work as per the game. This is all about the brief description about my project.



Tech Stack

React

React has been used for the development of this project with hooks like use-state and other functions. Reusable components in React, like Cell components, enhance code modularity, making it easier to manage the 81 cells in a Sudoku grid. Thus these features streamline the process.

CSS

CSS provides with good looks to the game and make it attractive. By integrating CSS with React, developers can enhance the user experience by ensuring a polished and cohesive design across the application, improving readability.

Sudoku Solver

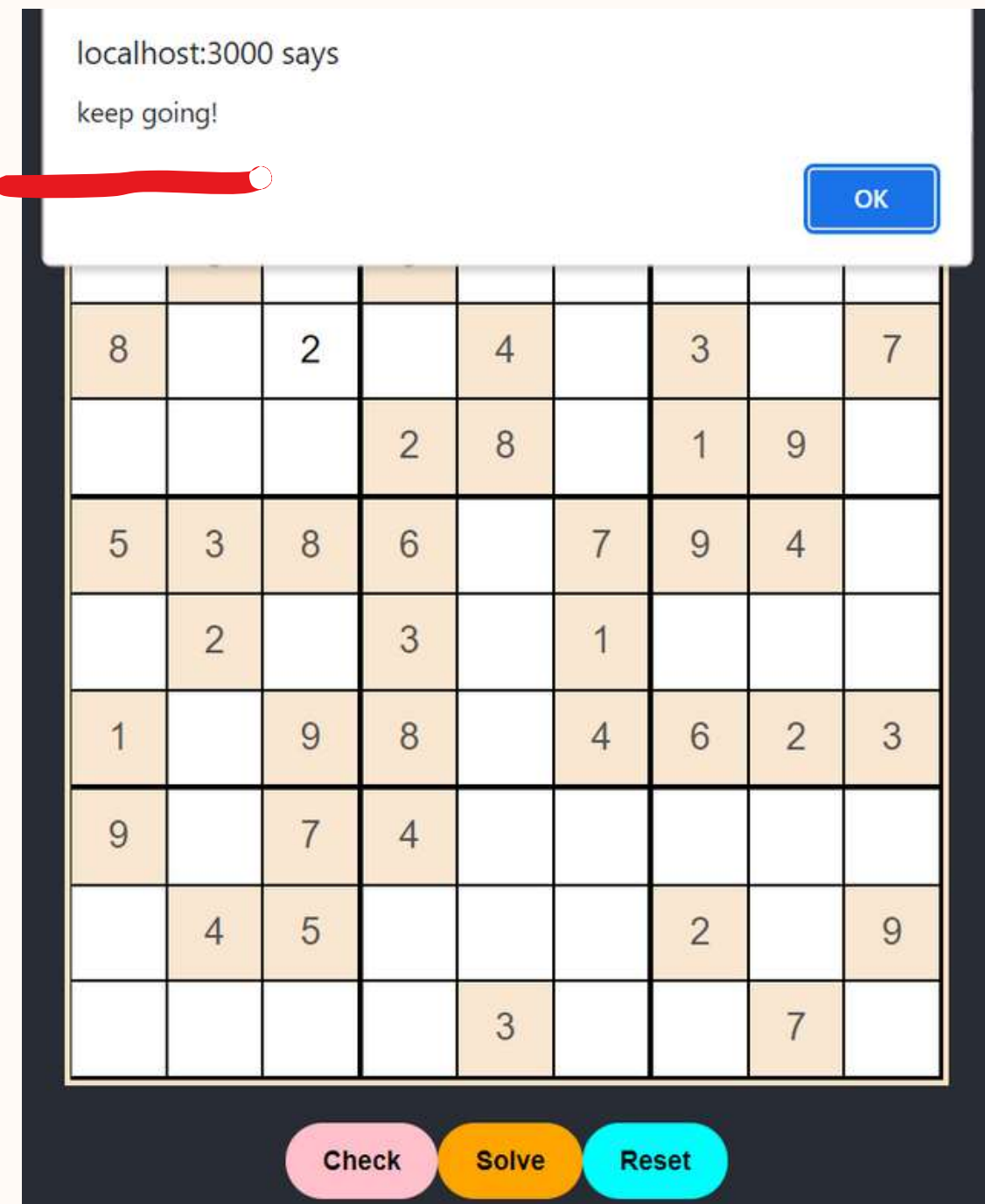
	5		9					
8				4		3		7
			2	8		1	9	
5	3	8	6		7	9	4	
	2		3		1			
1		9	8		4	6	2	3
9		7	4					
	4	5				2		9
				3			7	

Check

Solve

Reset

This is the game designed using react .
This has a heading at the top and 3
buttons at the bottom and a grid. This
seems very interesting to play and
thus have fun time.



This is the situation when you enter the number that is not present in the particular row and column. Then it shows alert message of keep going on.

This is the situation when the user enters the number that is either present in the same row or column.

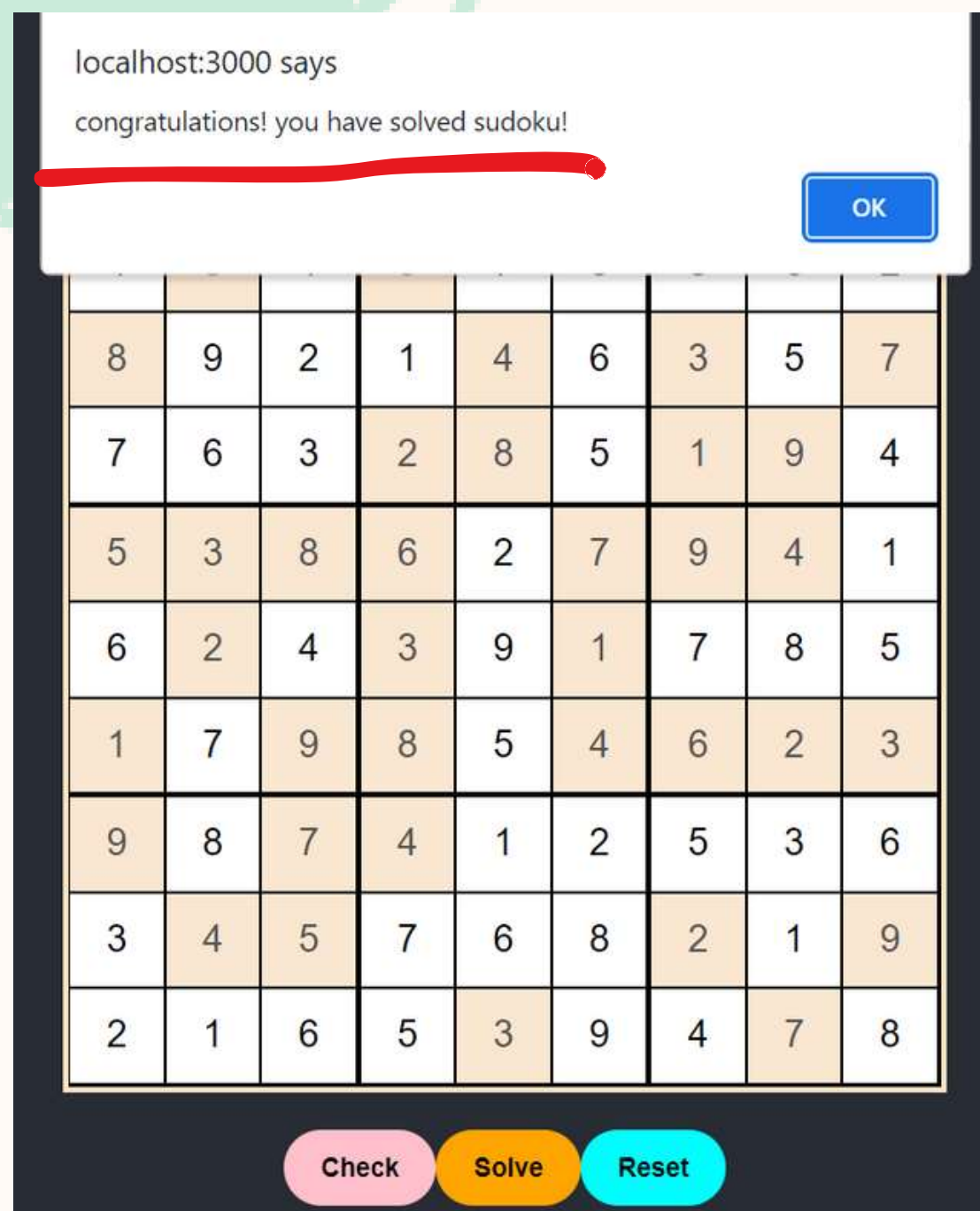
In this case the message shown is “Sudoku can not be solved and try again”. And the user have to enter the right number.

localhost:3000 says
sudoku can not be solved. try again!

OK

8		9		4		3		7
			2	8		1	9	
5	3	8	6		7	9	4	
	2		3		1			
1		9	8		4	6	2	3
9		7	4					
	4	5				2		9
				3			7	

Check Solve Reset



In this image there is alert message of “Congratulations you have solved sudoku” . This message appears when the user has solved the whole sudoku and clicks at the check button the bottom.



***THANK
YOU***