

Sudoku Final Project

User Stories

- As a user, I should be able to enter any puzzle I choose
- As a user, I should be able to find puzzles in the puzzle database and open them
- As a user, I should be able to press the solve button to see the solved version of any puzzle
- As a user, I should be able to change the size of the sudoku puzzle
- As an Admin, I should be able to see all rows of all tables in the database.
- As an Admin, I should be able to insert, delete and update any and all rows in the tables.
- As an Admin, I should be able to log in and out using a quick and simple interface.
- As an Admin, I should not be able to see what my or another Admin's password is in plaintext.
- As an Admin, I should be able to change admin passwords.

Mockups

The mockup shows a web application interface for a Sudoku game. At the top, there is a navigation bar with three buttons: "Home" (highlighted in green), "Search", and "Administration". Below the navigation bar, the main content area is titled "Sudoku". Under the title, there is a "Size" label followed by a dropdown menu currently set to "3x3". Below the size selector is a 3x3 grid representing the Sudoku puzzle. The first cell of the grid contains the number "1", and the second cell contains the number "2". Below the grid, there are two buttons: "Solve" and "Clear".

Sudoku		
1		
2		

Solve Clear

[Home](#) [Search](#) [Administration](#)

Find Puzzles

Size ▼

Difficulty ▼

1

2

Select

1

2

Select

[Home](#) [Search](#) [Administration](#)

Administration

[Reports](#) [Tables](#)

Reports

Number of times each puzzle was opened

Number of times each difficulty was opened

Number of times each difficulty was solved

Average amount of times a puzzle was opened by difficulty

Home

Search

Administration

Administration

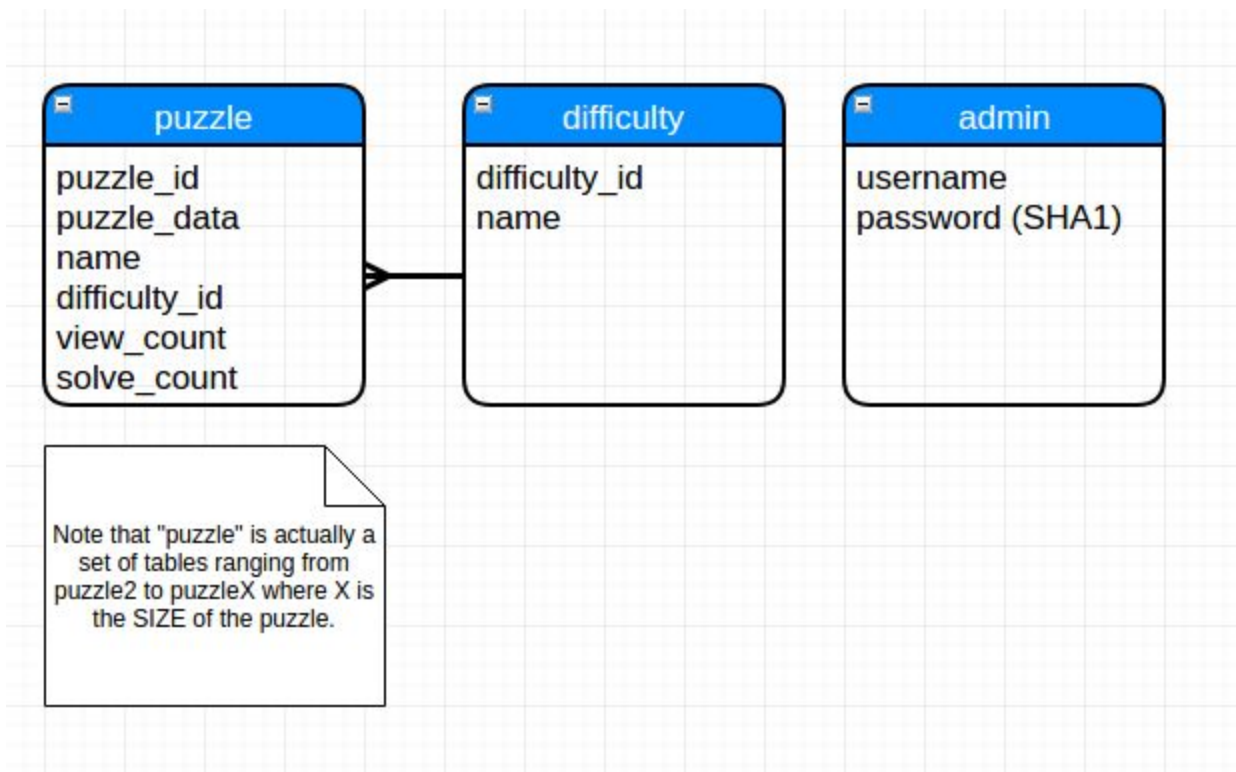
Reports

Tables

Tables

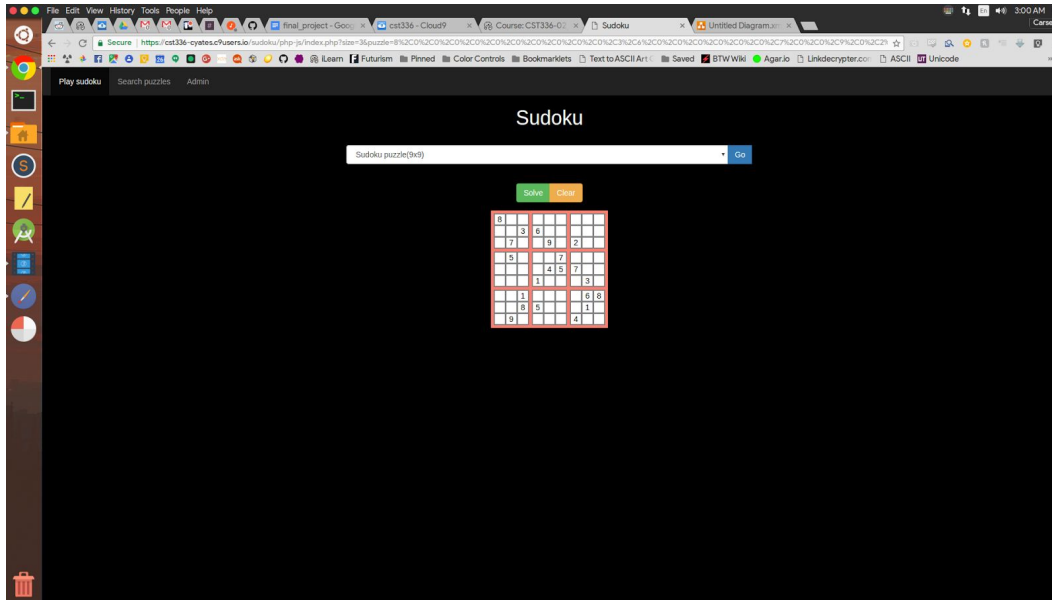
Table:

ER Diagram



Carsen Yates
Final Project
CST 336

Screenshots



Search

Puzzle type:

Sudoku puzzle(9x9)

Difficulty:

All difficulties

Number of results per page:

10

Current page:

1

Go

Difficulty: Beginner

	2	4	
1			3
4			2
	1	3	

Open

Difficulty: Impossible

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

Open

Carsen Yates
Final Project
CST 336

The screenshot shows a web browser window with the URL `https://cst336-cyates.c9users.io/sudoku/php/js/admin_tables.php?table=difficulty&start=0&end=100`. The page is titled "Administration" and has tabs for "Reports", "Tables", and "Logout". The "Tables" tab is active, showing a form to filter data by difficulty. The form includes a dropdown menu for "difficulty" (set to "difficulty"), a "Starting at row:" input (set to "0"), and an "Ending at row:" input (set to "100"). A "Go" button is below the inputs. Below the form is a table with the following data:

difficulty_id	difficulty	access_count	difficulty	solve_count	Actions
1	Beginner	3		2	Delete Update
2	Very easy	0		0	Delete Update
3	Easy	0		0	Delete Update
4	Medium	0		0	Delete Update
5	Hard	0		0	Delete Update
6	Elite	0		0	Delete Update
7	Really, really hard	0		0	Delete Update
8	Impossible	1		1	Delete Update

Note: Many of these fields are empty in this screenshot because the database was mostly empty when I took this screenshot. After adding more puzzles there will be more data to be reported back. I can even add more puzzle SIZ