

Tic-Tac-Toe: The Game

Progress Report 2
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CPET 499 Web Systems

Project Summary

- This web application contains the classic Tic-Tac-Toe game that is full functional and can display statistics for the amount of games a user wins, loses, and ties.
- Users will have the ability to create a unique username in order to link their login and statistics to

Overview

- Main Components
 - Login for both player 1 and player 2, registration for new players, and ability to logout
 - Selection of X or O
 - Randomly selects a player to be the first picker
 - Fully functional Tic-Tac-Toe gameboard
 - Switches between user depending on who went first
 - Places picture of x or o depending on user
 - Updates statistics at conclusion of round
 - Games will continue until user clicks end game button

Project Scope

- Activities
 - Designing the website
 - Building the website
 - Design the database
 - Build the database
 - Code game logic
- Testing
 - User registration, Login
 - All scenarios that can happen in a game of Tic-Tac-Toe
 - Random user selected to pick x or o

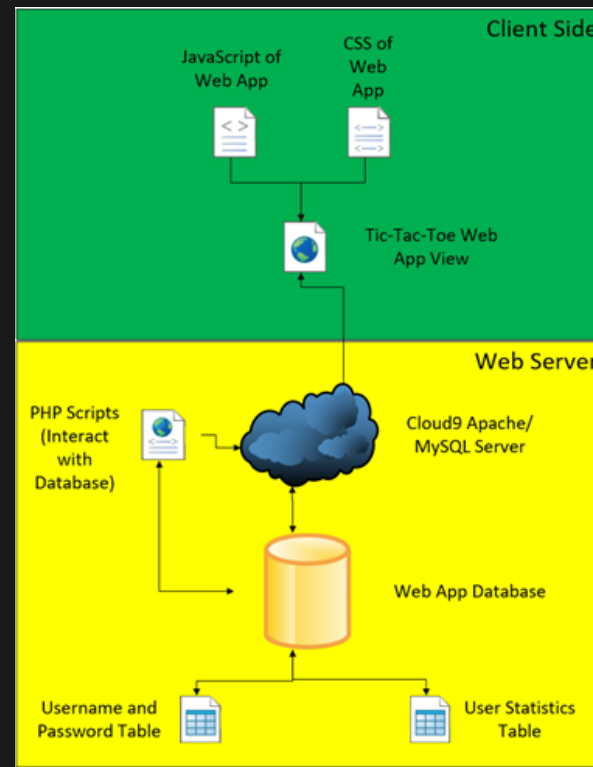
Problems/Corrections

- MySQL
 - Ran Into Query Issues with PHP – Corrected By Looking Into Correct Syntax for SQL
- CSS
 - Ran into centering issues – Correct By Finding Properties That Dynamically Set Position
- AJAX
 - Ran into issues of Needing Code Ran After the Execution of a PHP Script – AJAX Allows us to Run Specific Code Upon Completion of a PHP Script with Needed Data

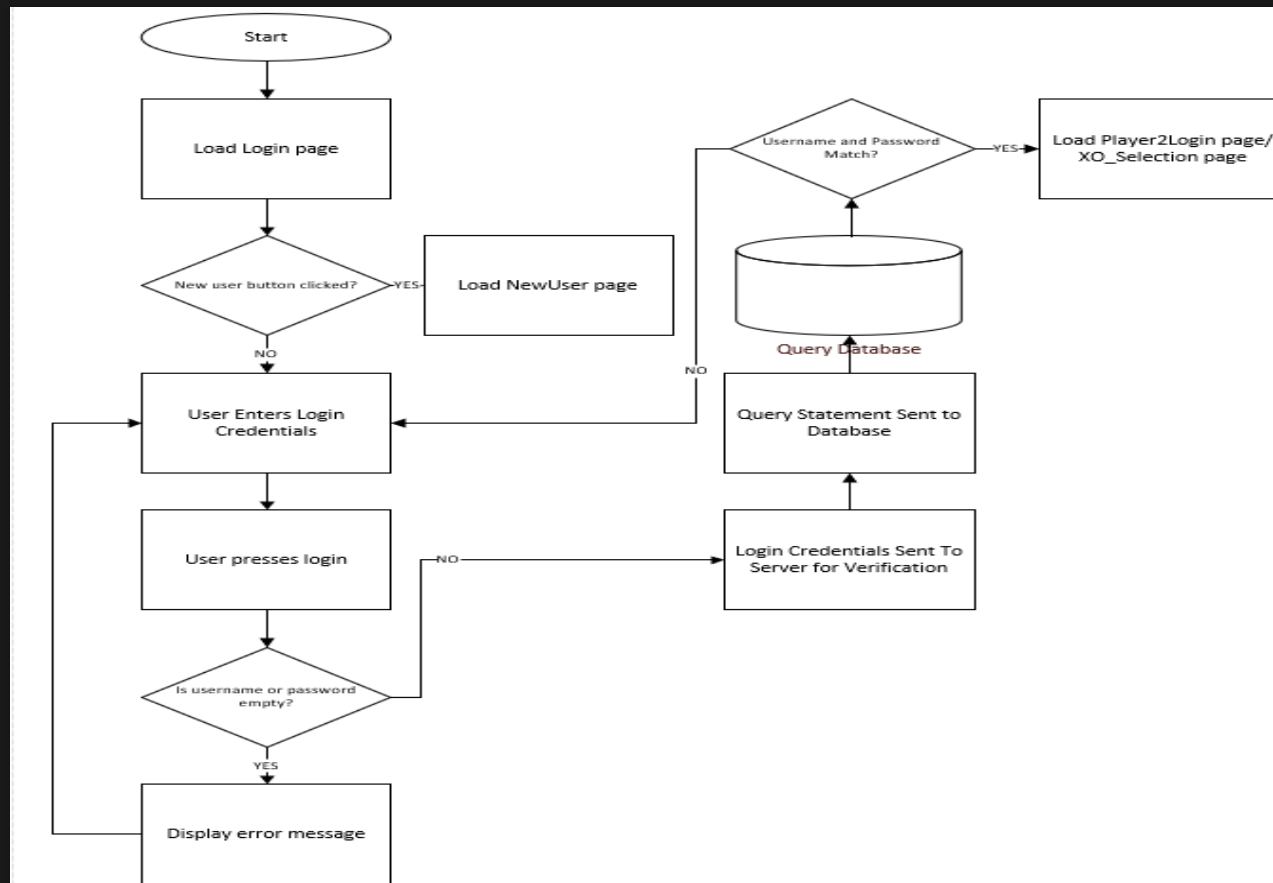
Milestones/Deliverables

- Web Application
 - Front-end components completed
 - Back-end components completed
 - Database built
 - Application tests
- Final Report
- Final Presentation

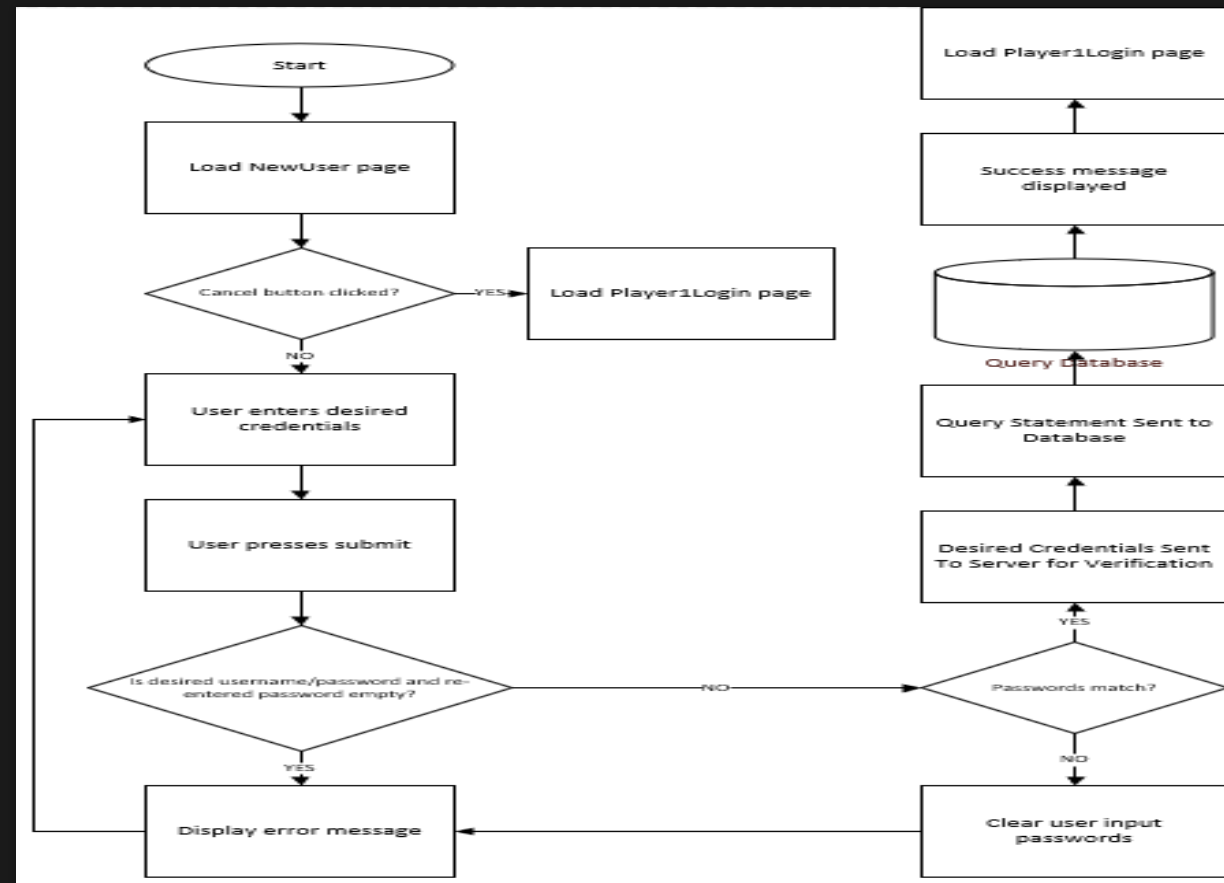
System Design - Overview



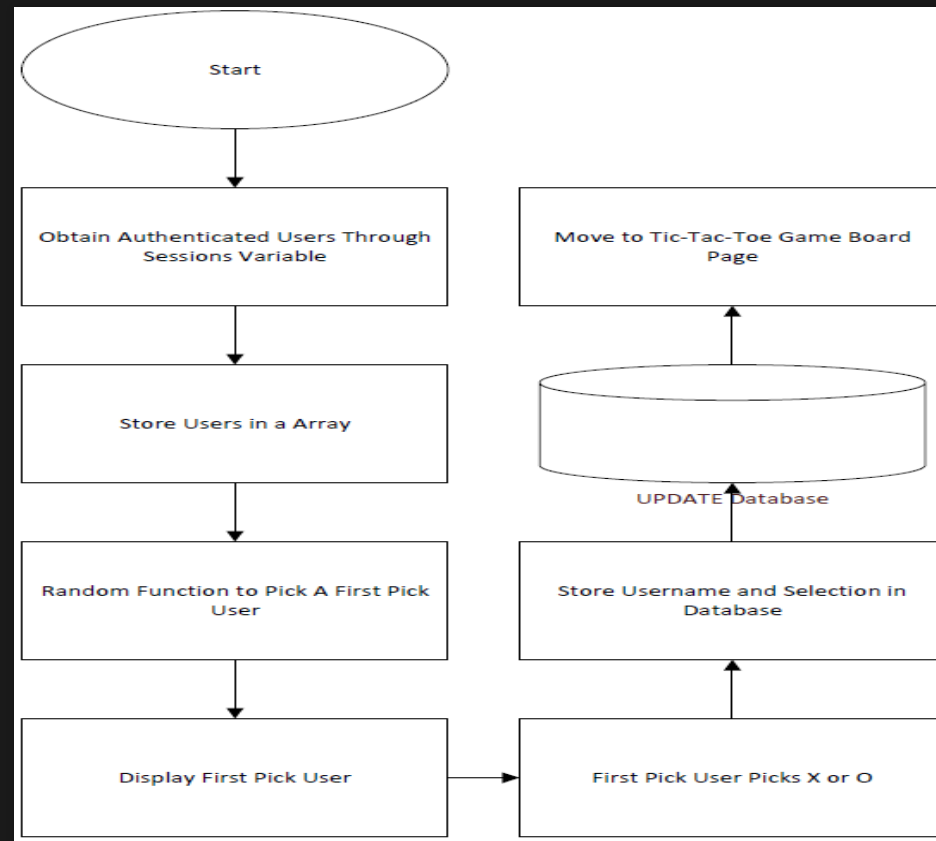
System Design – User Login



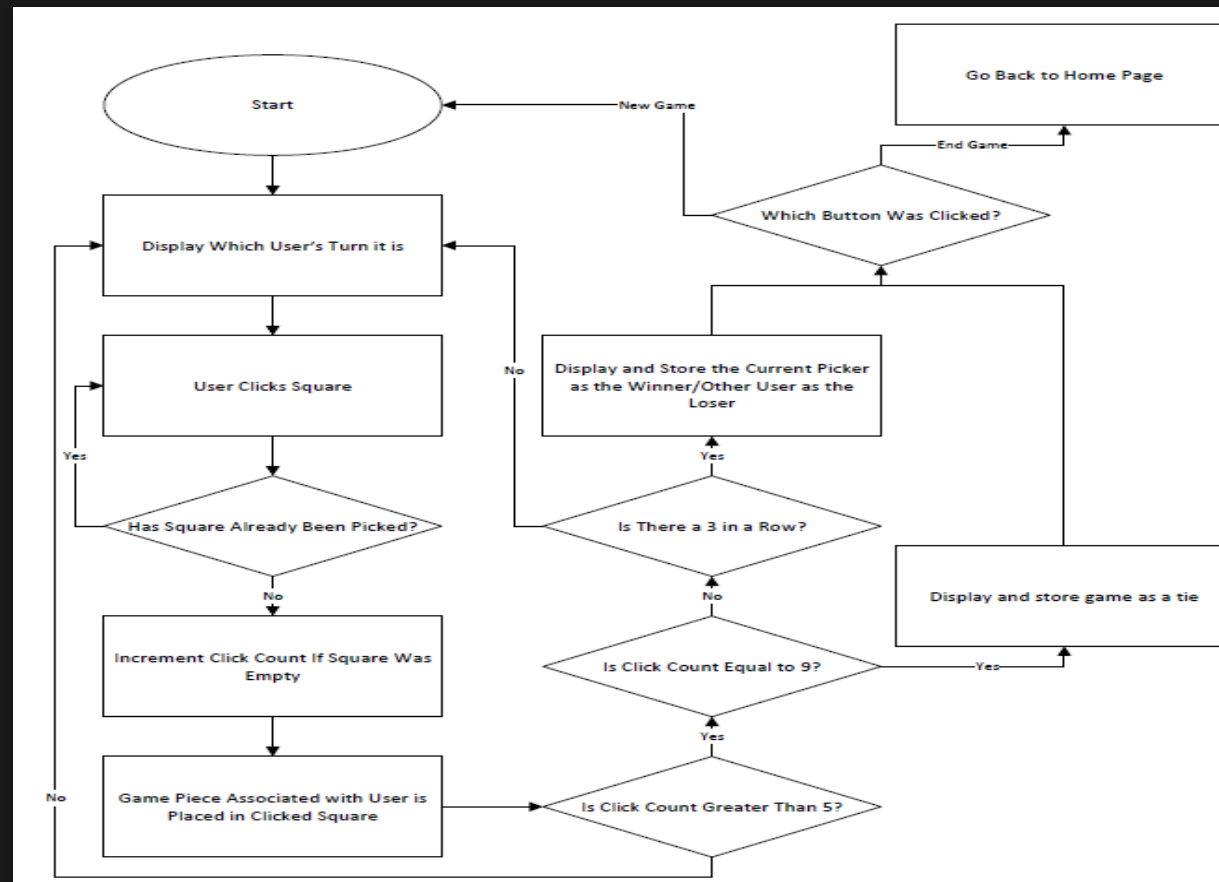
System Design – New User Creation



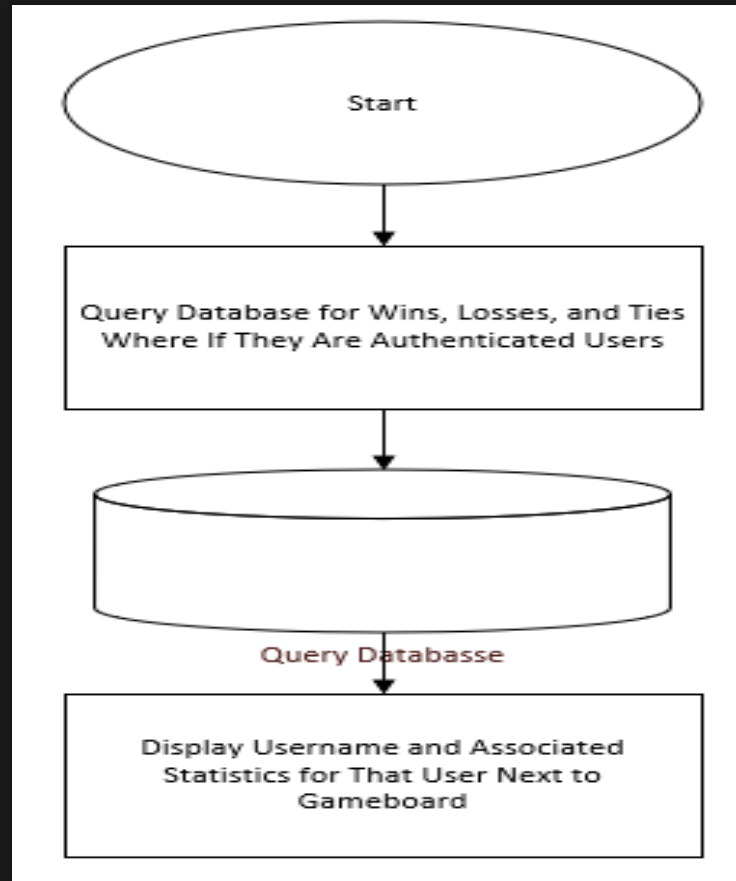
System Design – Game Piece Selection



System Design – Tic-Tac-Toe Game



System Design – Statistics Display



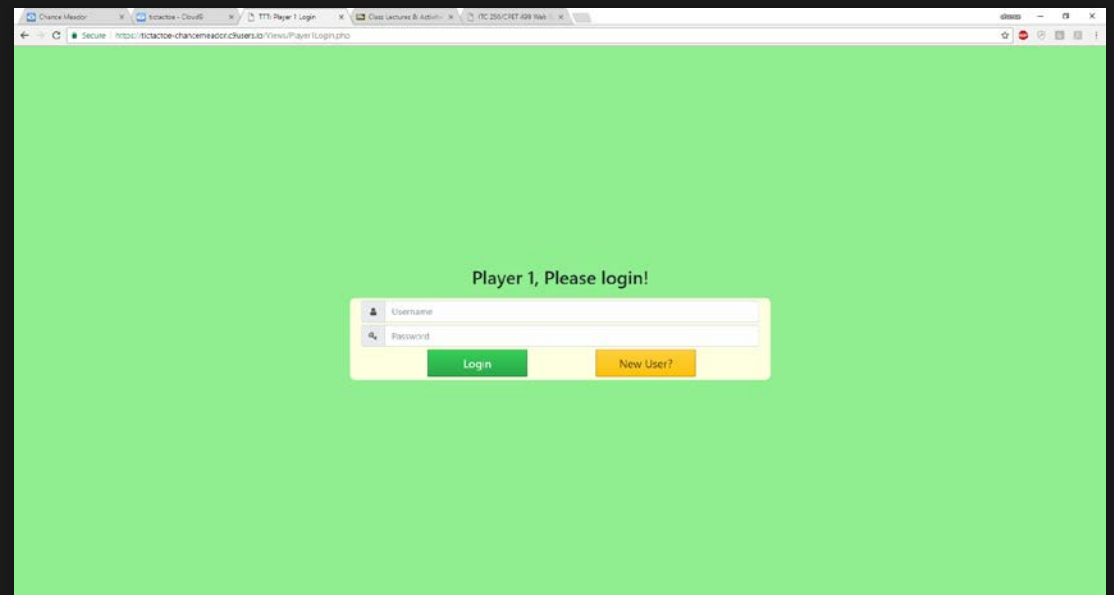
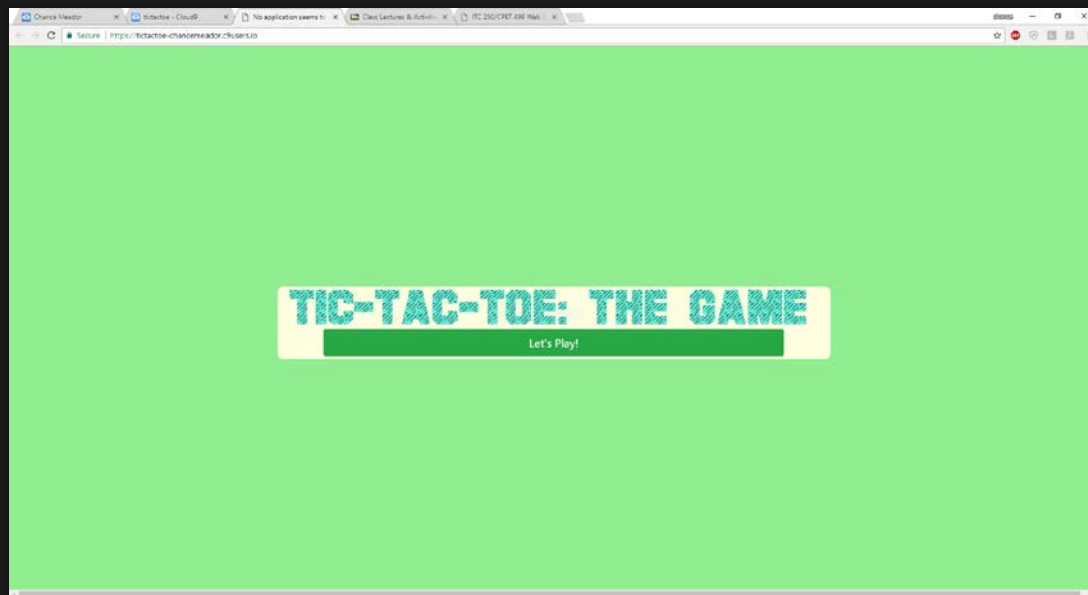
Requirements

- UI and Data Presentation
 - Welcome Page
 - Login Pages
 - User Creation Page
 - X and O Selection Page
 - Tic-Tac-Toe Gameboard Page
 - Wins, Losses, and Tie Statistics for Each User
- Server Requirements
 - Cloud9
 - MySQL
 - Apache/PHP – Provides Public Domain Name
 - Disk Size: 2GB, Memory: 512MB, 1 CPU

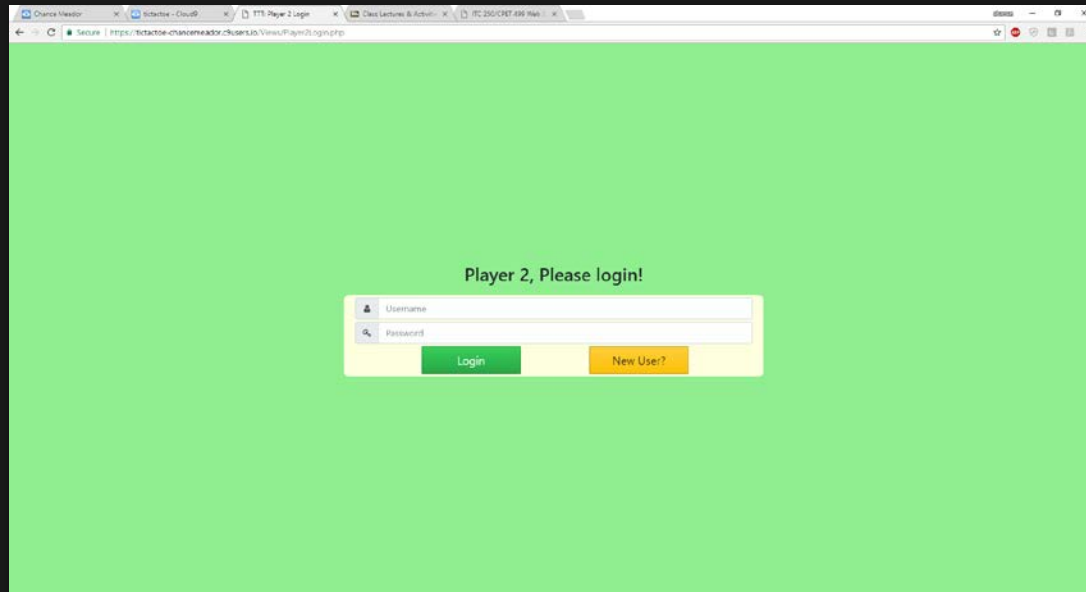
Major Components/Tools

- Hardware
 - Cloud-Based Linux Virtual Machine (Cloud9)
 - PC to Access Cloud9 Virtual Machine for Development
- Software
 - Cloud9 Web Application
 - Text Editor
 - Apache/PHP Web Server
 - PHP
 - HTML5
 - JavaScript, JQuery, AJAX
 - CSS
 - MySQL
 - Phpmyadmin for Database Management

UI



UI – Continued (1)



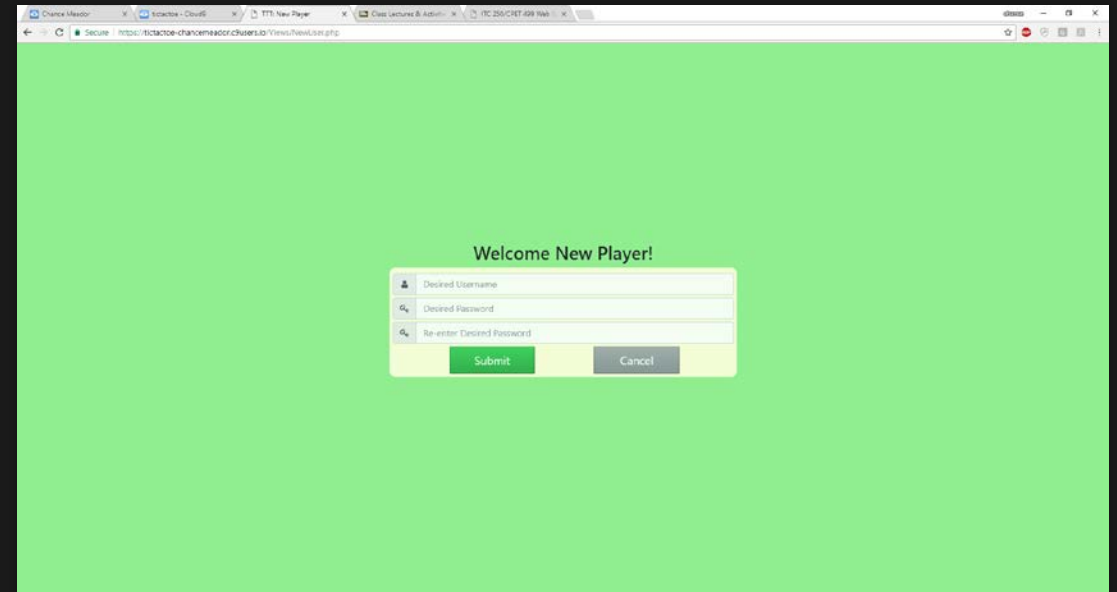
A screenshot of a web browser window displaying a login page. The browser's address bar shows a URL starting with "https://tictactoe-chancemador.chuser.io/View/Player2Login.php". The page has a solid green background. In the center, there is a white login form with the heading "Player 2, Please login!". The form contains two input fields: "Username" and "Password". Below these fields are two buttons: a green "Login" button and a yellow "New User?" button.

Player 2, Please login!

Username

Password

Login New User?



A screenshot of a web browser window displaying a registration page. The browser's address bar shows a URL starting with "https://tictactoe-chancemador.chuser.io/View/NewUser.php". The page has a solid green background. In the center, there is a white registration form with the heading "Welcome New Player!". The form contains three input fields: "Desired Username", "Desired Password", and "Re-enter Desired Password". Below these fields are two buttons: a green "Submit" button and a grey "Cancel" button.

Welcome New Player!

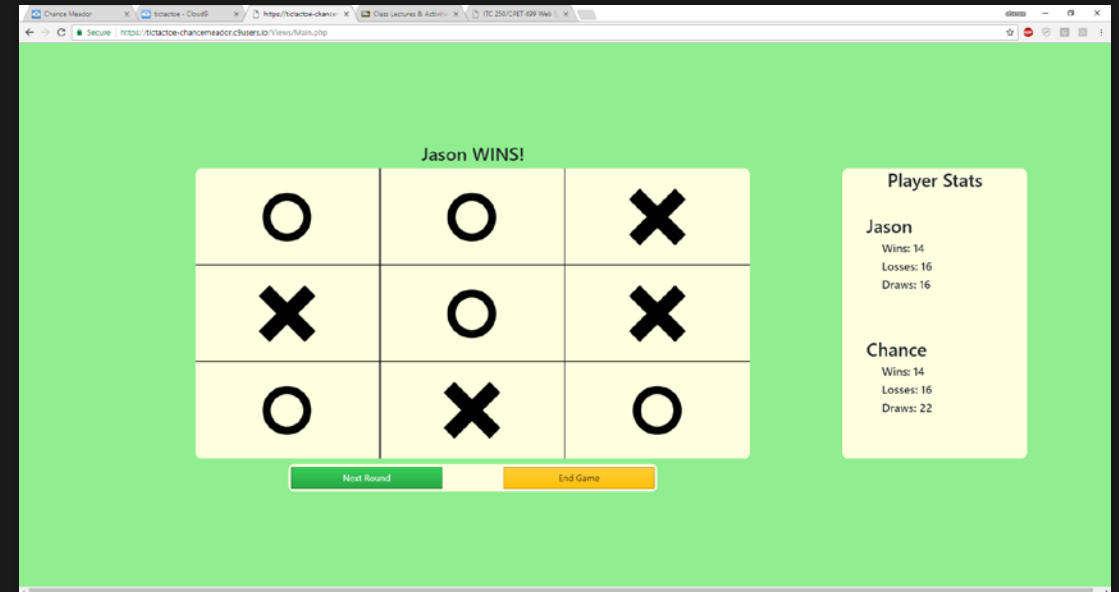
Desired Username

Desired Password

Re-enter Desired Password

Submit Cancel

UI – Continued (2)



UI – To Be Completed

- To Be Completed
 - All UI is complete at this time, touching up styles is all that needs to be done to make it stand out more
 - May add a header to the selection and gameboard view to display logged in players

Functionality – Completed

- Completed Functionality
 - Tic-Tac-Toe logic is complete and can determine win, loss, and draw
 - New player can be added to database along with setting stats set to 0
 - Player's can fully login
 - Alerts are given for input validation and database problems
 - Player's can select X or O on the selection screen and it tied to their username
 - Next round button will clear gameboard and randomly select a player to go
 - End game button will log out all player's and go back to home screen

Functionality – To Be Completed

- To Be Completed Functionality
 - Prevent user from navigating to selection and gameboard view without having player 1 and player 2 logged in

Schedule

- Complete Back-End Work
 - Completed by: 12/5/17
- Test Web System
 - Completed by: 12/13/17
- Present Project
 - Presentation: 12/14/17, 10:30 A.M. to 12:30 P.M.