Tic-Tac-Toe: The Game

Final Project Presentation Chance Meador 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.
- O 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
 - ORandomly selects a player to be the first picker
 - O Fully functional Tic-Tac-Toe gameboard
 - O Switches between user depending on who went first
 - OPlaces picture of x or o depending on user
 - OUpdates statistics at conclusion of round
 - OGames will continue until user clicks end game button

Project Scope

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

Project Schedule

Task Name	Start	End	Duration
Tic-Tac-Toe: The Game	10/24/2017	12/14/2017	41 Days
Project Proposal	10/24/2017	11/2/2017	9 Days
Web System Planning	10/24/2017	10/30/2017	7 Days
Proposal Compilation	10/31/2017	11/1/2017	2 Days
Web System Development	11/3/2017	12/12/2017	23 Days
Front-End Development	11/5/2017	11/15/2017	11 Days
Database Creation	11/16/2017	11/17/2017	2 Day
Back-End Development	11/18/2017	11/27/2017	10 Days
Final Project Deliverables	11/2/2017	12/14/2017	10 Days
Progress Report 1	11/2/2017	11/4/2017	3 Days
Progress Report 2	11/28/2017	11/30/2017	3 Days
Final Project Files, Report, PowerPoint Turn In	12/10/2017	12/12/2017	3 Days
Final Project Presentation	12/14/2017	12/14/2017	1 Day

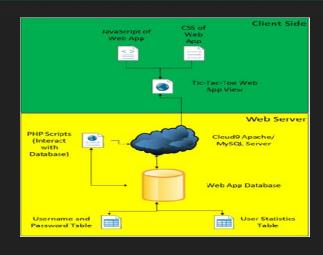
Milestones/Deliverables

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

Requirements

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

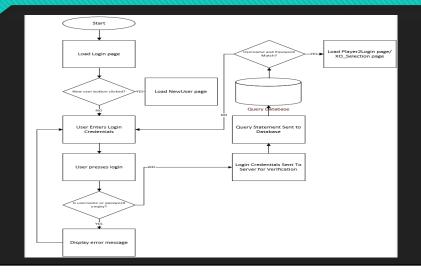
System Design - Overview

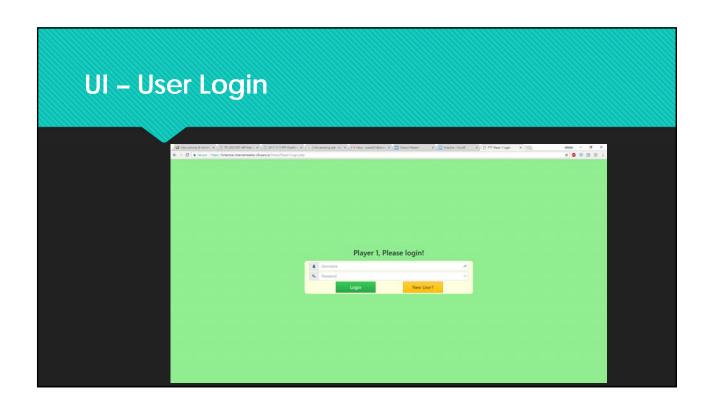


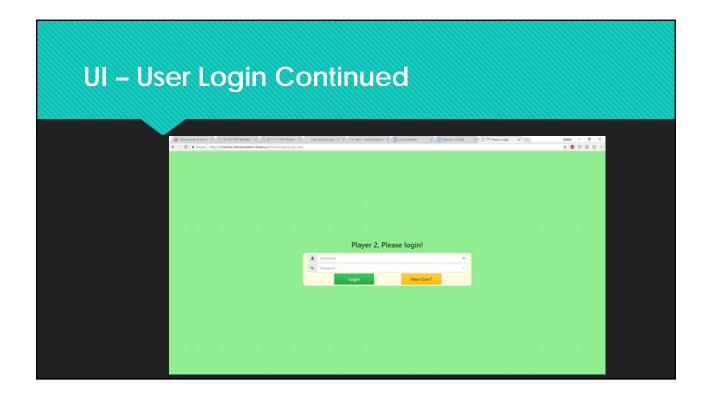
Major Components/Tools

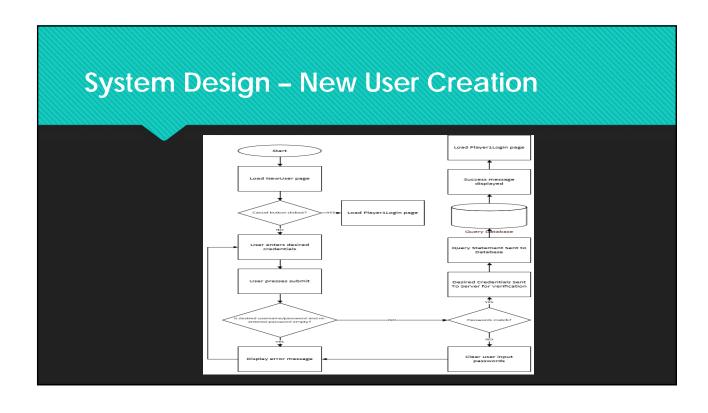
- O Hardware
 - O Cloud-Based Linux Virtual Machine (Cloud9)
 - OPC to Access Cloud9 Virtual Machine for Development
- Software
 - O Cloud9 Web Application
 - Text Editor
 - Apache/PHP Web Server
 - O PHP
 - O HTML5
 - O JavaScript, JQuery, AJAX
 - O CSS
 - O MySQL
 - O Phpmyadmin for Database Management

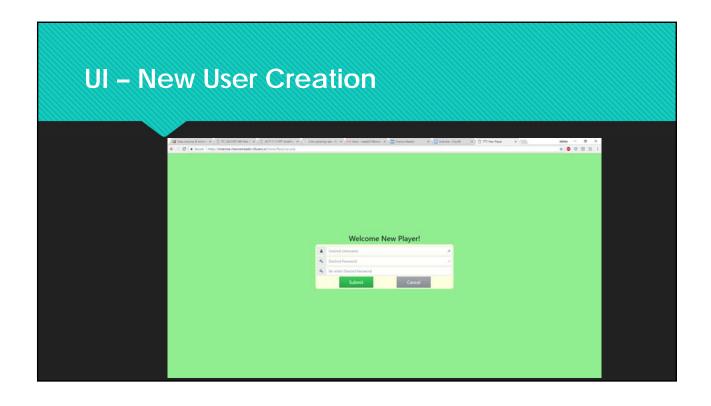
System Design – User Login





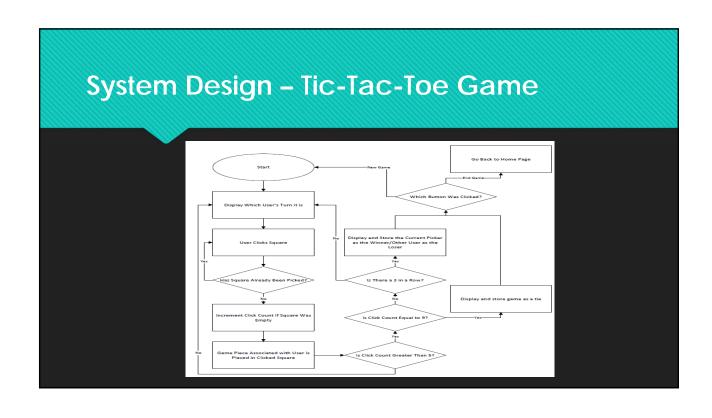


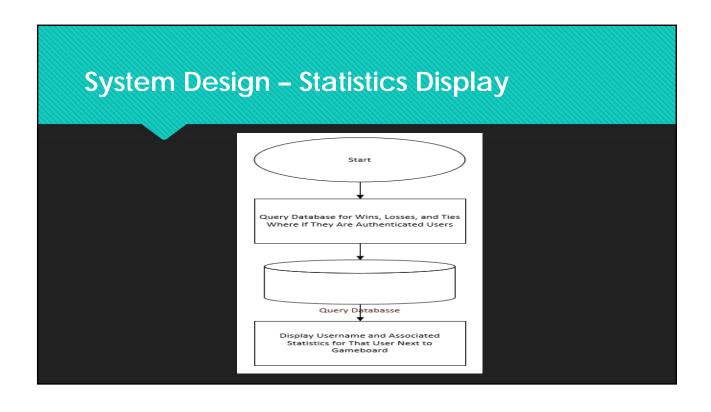


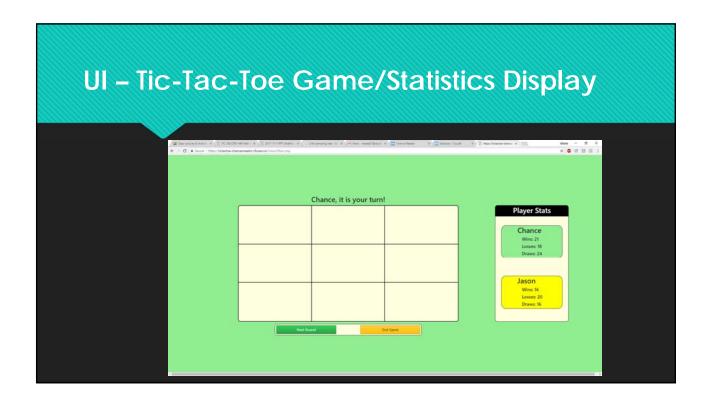












User Creation Created two new users Validated that you can not duplicate them Login Both users successfully logged in Game Piece Selection Verified that user is picked at random Tic-Tac-Toe Game User places their respective pieces User can win in all allowable scenarios Game can be reset after a victor/draw is declared or return to home screen Statistics updated upon loading and after each round end

