Hacknet, Real-Life Hacking, and You

Progress Report #2 Logan Grannis ITC499 - Web Systems

Project Summary

- This project consists of simulations of the hacking simulator Hacknet. The user will "hack" into a fake wiretapping server, and then defend that same server against a foreign intrusion. Once each game is completed, a short video or other media will be shown to the user, explaining how this would happen in real life. After completing both games, a webpage called "why.html" will be shown to the user. Why.html will summarize what was learned, and will try to convince the user to become more involved in cybersecurity.
- Users have the ability to create an account to track their progress in the game. There may also be a leaderboard to track who completed the game fastest. This user data will be stored with mySQL.

Overview

- Main Component:
 - Web site with login, registration, and log out.
 - Can reset their progress or create a new account
 - Password is optional; cybersecurity for site will be ironically, slightly lax
 - Letting users compromise the site could be another learning tool

Project Scope

- Activities
 - Design Website
 - Build Website
 - Code Logic
 - Design and Build Database
- Testing
 - Register, login, and logout
 - Progress tracker

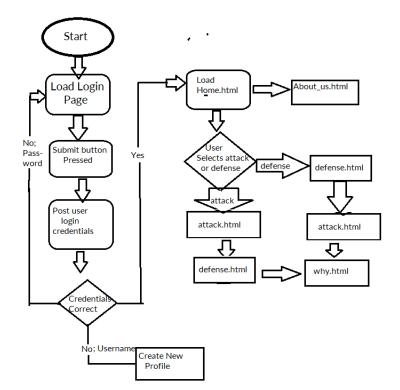
Problems and Corrections

- Lack of Knowledge
 - Need to go over old course material in regards to web design and building
- Unattractive UI
 - Need a more attractive way to present text; will study other websites' page's source
- Lack of familiarity with MySQL
 - Will have to use DDL statements to create database table
- User creation and login functionality non-functional
 - Need to debug php to find error

Project Milestones and Deliverables

- Prototype
 - Working website with correctly functioning games and database
- Final Report
- Final Project Presentation

Web System Design



System Requirements

- User Interface and Data Presentation Layer
 - Web site
 - Login page
 - Using HTML/CSS/PHP/JS Framework

System Requirements

- Game Logic:
 - PHP
 - 0 **JS**
- Data Storage
 - MySQL Database

Major Components of the Proposed System

- Hardware
 - Virtual Hosted Linux Server
 - Windows Development Computer
- Software
 - Text Editors
 - Database Management GUI

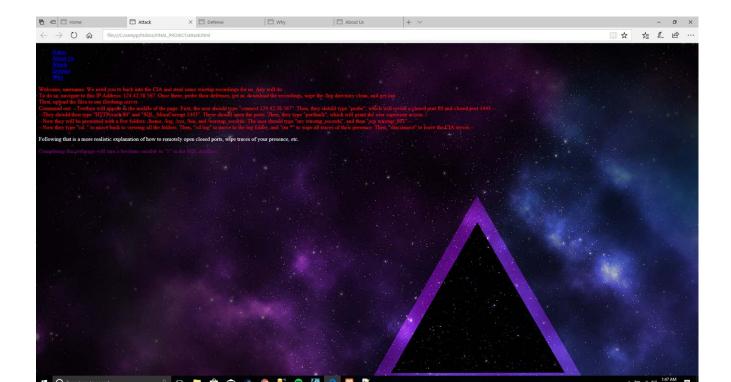
Software Programming Tools

- phpMyAdmin
- Notepad++

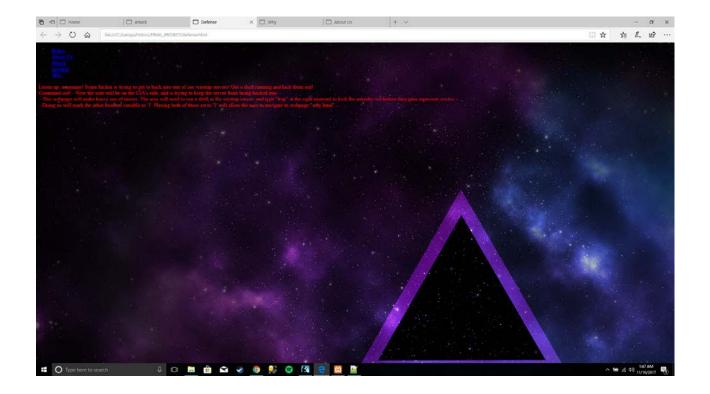
User Interface: Home.html

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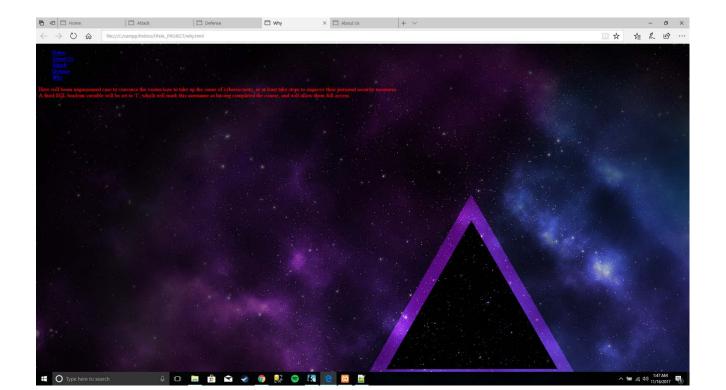
User Interface: Attack.html



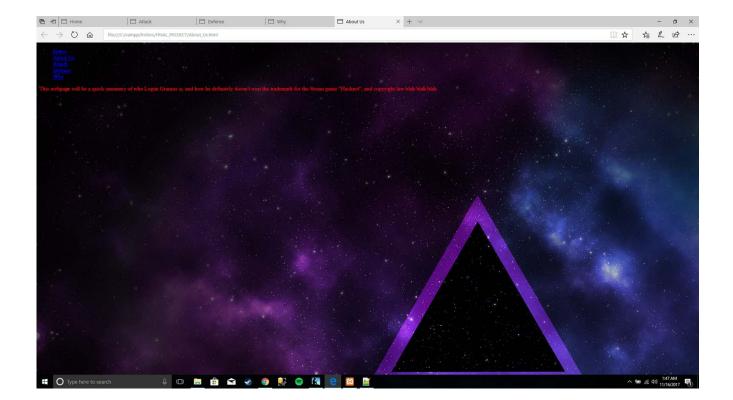
User Interface: Defense.html



User Interface: Why.html



User Interface: About_Us.html



MySQL Database/Table Creation Process

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- a	Ð		Run SQL query/queries on database hacknetdatabase: 🔞	- @	Show query box
					✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.4942 seconds.)
,			1 CREATE TABLE Users 2 (Id 3 Username VARCHAR(30) NOT NULL UNIQUE,	Э	ALTER TABLE Users ADD ProgressInt INT NOT NULL DEFAULT 0
			4 PASSWORD VARCHAR(100) NOT NULL, 5 Created_At DATETIME DEFAULT CURRENT_TIMESTAMP		
			6);		✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0012 seconds.)
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			Browse 🧗 Structure 📄 SQL 🔍 Search 👫 Insert 🚍 Export		Id Username PASSWORD Created_At ProgressInt
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•		SE	ELECT * FROM Users		
		ld	Username PASSWORD Created At		



- Set up Database Tables
 - \circ 1/2-2 Hour(s)
 - o **11/30/2017**
- Finish and Debug Hacking Game (php/JS?)
 - 2-4 Hours
 - o **12/03/2017**
- Clean up UI
 - \circ 3-5 Hours
 - o **12/06/2017**



• Test Functionality

- 5-10 Hours
- o **12/09/2017**