First Principles: Resource encapsulation, layering, minimization

1. Time: 9-11
2. Lecture: No powerpoint; white board drawing of MVC as it relates to the web
   1. Basic HTML
      1. See login.html
   2. Basic Javascript
      1. A pop-up box; meant to demonstrate client-side code execution
   3. Basic SQL
      1. See sql\_notes.txt
   4. Basic PHP
      1. See login.php
      2. See home.php
      3. See message.php
3. Activities
   1. Activity: Build a form in HTML to login to a website
   2. Activity: Add a pop-up box that welcomes the user to the website
      1. Observe the javascript in being sent to the end user in Wireshark to be executed on the end user’s machine
   3. Activity: Build a database with two tables: one holding users and one holding messages
      1. Populate the users and messages tables by hand
   4. Activity: Build a controller in PHP that takes the data from the login form and checks it against the database
   5. Activity: Build a controller (home.php) that shows a user their messages that has a form for sending a message to another user.
   6. Activity: Build a controller (message.php) that sends processes a message and redirects the user back to home.php