

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
 - a. Basic HTML
 - i. See [login.html](#)
 - b. Basic Javascript
 - i. A pop-up box; meant to demonstrate client-side code execution
 - c. Basic SQL
 - i. See [sql_notes.txt](#)
 - d. Basic PHP
 - i. See [login.php](#)
 - ii. See [home.php](#)
 - iii. See [message.php](#)
3. Activities
 - a. Activity: Build a form in HTML to login to a website
 - b. Activity: Add a pop-up box that welcomes the user to the website
 - i. Observe the javascript in being sent to the end user in Wireshark to be executed on the end user's machine
 - c. Activity: Build a database with two tables: one holding users and one holding messages
 - i. Populate the users and messages tables by hand
 - d. Activity: Build a controller in PHP that takes the data from the login form and checks it against the database
 - e. Activity: Build a controller ([home.php](#)) that shows a user their messages that has a form for sending a message to another user.
 - f. Activity: Build a controller ([message.php](#)) that sends processes a message and redirects the user back to [home.php](#)