**HouseCom™ ThermoSecurity™ System**

Group project and submission. This assignment is **worth 15%**

Assignment Description

The basis of this assignment is to create an interactive application using 3D, video, and still images. Design and develop an engaging experience for the end user with which they can interact in a one-page

mobile-first web application.

This project will be a collaborative effort between all of your IDP classes.

Product Description

**HouseCom™ ThermoSecurity™ System is a fully digital, hardwired and wireless (WiFi, Bluetooth)**

**enabled home personal and secure environment control system** . All communications with the central system are accessible and controlled through the wall unit, product app. and the secured portal on the parent website. The HouseCom™ ThermoSecurity™ System App. is available on both iOS and Android devices. Whether you wish to adjust the temperature of your home from your Android or iPhone watch or access the home security system on your phone to check in on the house occupancy through the remote, portable cameras. You may wish to look for independent room temperatures, smoke and carbon monoxide status or just open windows and unlocked doors for your return home.

All of this functionality and more are part of the capabilities of the HouseCom™ ThermoSecurity™ security and environment system.

Features

**Proximity sensor:** Actives system to on state when viewer is close.

**Facial recognition camera:** To allow admin users to manipulate settings (child proofing)

**GUI:** The ability increase/decrease the temperature difference between my heat/cool set-points. Comes with built-in Amazon Alexa Voice Service Regulates indoor humidity to prevent frost buildup on outside windows. The ability to view Current indoor temperature, outdoor temperature, daily forecast, weekly forecast. See [**https://nest.com/ca/thermostats/nest-learningthermostat/overview/**](https://nest.com/ca/thermostats/nest-learningthermostat/overview/)for an example of a smart thermostat.

Submission Deadlines

All assignment material for each class must be submitted on Tuesday, October 8th by 9:00 a.m.

Grade Value for this assignment :

Total = 15%

Your grade for this assignment will be based on how closely you follow the requirements

Web Development 2

Each team will develop a responsive mobile-first application using Node and Express to showcase an interactive implementation of your design. Please note that this means that you can consider how the graphics and interactivity evolve as a web app.

DEVELOPER

* Create a repository on Github including a detailed Readme file. Put the appropriate information in the Readme file - you will likely have to update throughout the lifecycle of the project.
* Create the workflow files using techniques that we have explored in class - you’ll be managing dependencies, adding technical specs to the Readme etc.
* Use the mysql plugin with Node and Express to access a database containing relevant assets and / or information. This data should be retrieved as an object and populated on the page via a route using best practices as outlined in class (see 3040 requirements).
* Using Gulp is optional but recommended - however, if you choose not to use Gulp then you MUST use SASS on the command line in Terminal or Git Bash / the Windows command prompt (including \_vars.scss, modules, imports etc) and compile your CSS that way.
* Push the finished files to your repo, CONTINUOUSLY merge everything to master as you and submit the repo link to the FOL dropbox in a text file.
* Remember that only the master branch will be graded, so merge everything to that branch before the project deadline.
* Use best practices as outlined in both your first and second year classes: semantic tagging, mobile-first design, document outline, a detailed Readme, build files etc.

Submission Requirements

The assignment (repo link) must be submitted to the FOL dropbox.

Method of Submission:

Repo name:

* **LastName\_FirstName\_LastName\_FirstName\_Hackathon.zip.**
* Please follow best practices for project structure (folder names and contents)
* There is a mark attributed to the use of proper naming conventions.
* INCLUDE YOUR DATABASE in your repository.