**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 needs to design and build a database in MySQL that contains all the relevant information and use the appropriate SQL query for fetching data.
* Please use multiple tables for this assignment with the appropriate number of fields and the proper types set for each field.
* Although linking tables may not be required, you will have to use your own judgment to make the correct choices for your database design - kinds of relationships, etc.
* Make sure it meets the project requirements.

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.