Industrial Design and Promotion

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.

Assignment Requirements Per Course

MMED-3038

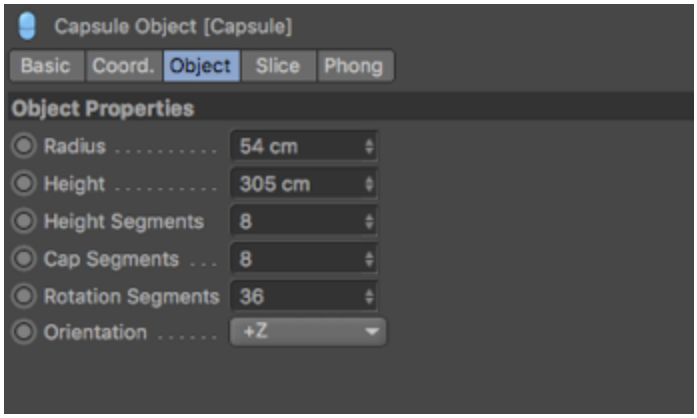
Generate brand identity collateral that will position your HouseCom™ ThermoSecurity™ System product against the competition on the store shelves. Create the specific functionality of the HouseCom™ ThermoSecurity™ System and the GUI (graphical user interface) that will be a part of the industrial design for the actual HouseCom hardware and software. Design one page sell sheet for this product – as though this is one of many different products produced by the HouseCom company which is referred to as a ‘Branded House/Master Brand’ – that provides all the ‘relevant’ information for this particular product, the “HouseCom™ ThermoSecurity™ System”

Start at mobile, and evolve your web design for tablet and desktop.

MMED-1058

Each group is required to model and render images of a smart thermostat for use in an interactive application. Each group is responsible for all stages of this product, from modeling to final GI render.

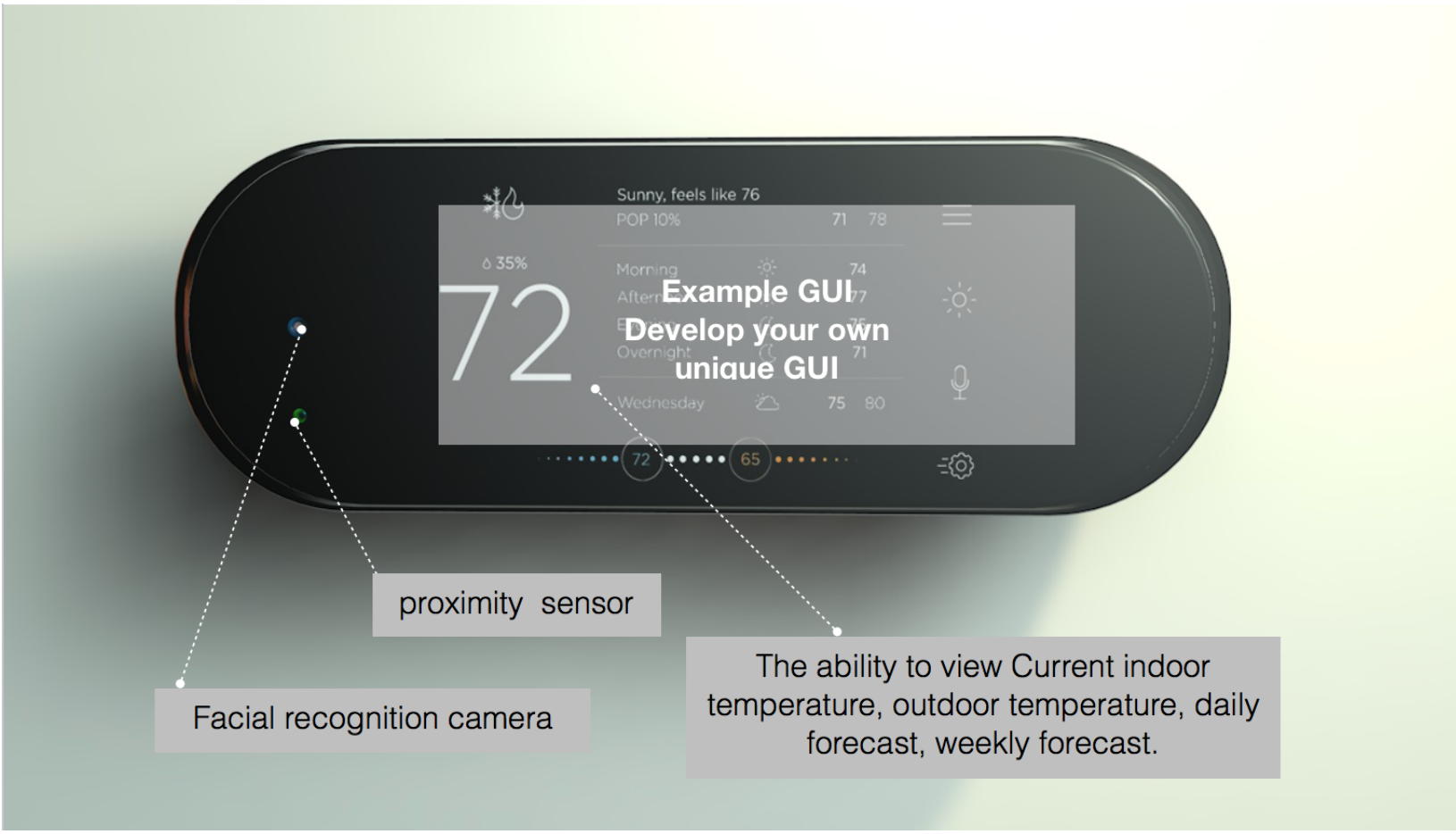
To maintain the dimensional integrity of the **HouseCom™ ThermoSecurity™ System** use these settings in Cinema 4D as your starting point.



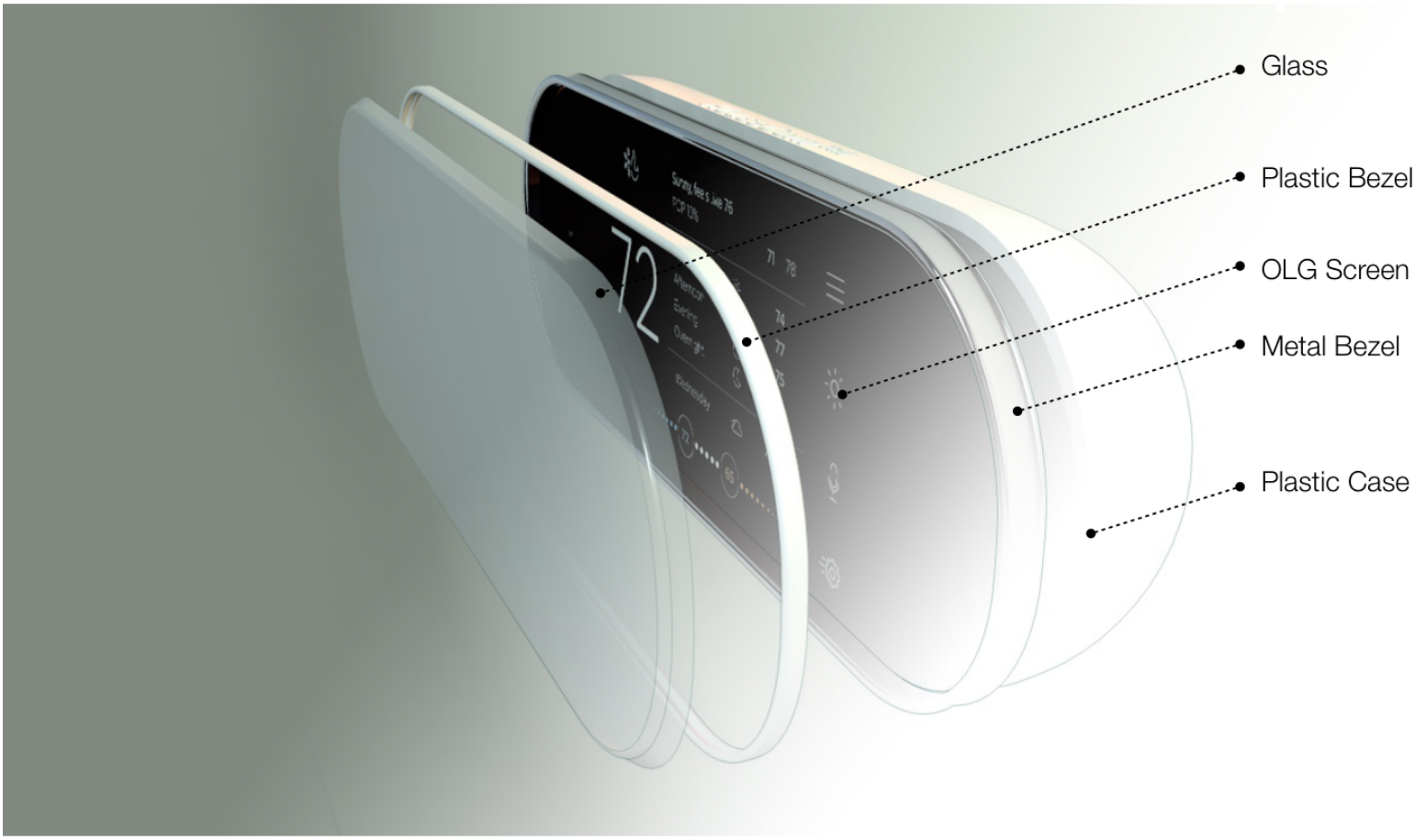
Pay close attention to all supplied reference images of HouseCom™ ThermoSecurity™ System to model, texture, light and render an accurate representation for the final product. All textures including your own unique GUI are to be used in the final render. All teams will use the provided HDRs from the Asset Browser to add realism to images.

Here are a few features of the HouseCom™ ThermoSecurity™ System.

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-learning-thermostat/overview/** for an example of a smart thermostat.



HouseCom™ ThermoSecurity™ System Components



Please see reference folder additional images.

MMED-3040

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 matching the object data created for MMED-3039. 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. Please provide me with the SQL queries to match the retrieved content in a text file along with the database in your repo.

MMED-3039

Each team will develop a responsive mobile-first application using JSON for data 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 - think about what needs to appear in your app at the various different sizes. Use media queries, etc to control the visual flow.

SPECIFICS:

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 a JSON object structured to match your

database tables for MMED-3040 (keys are your database column headers, values are the entries) to store data about the project - name, description, specs etc. This JSON file should be retrieved via Fetch and populated on the page using best practices as outlined in class (see 3040 requirements).

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 Per Course

MMED-3038

1. One logo design for HouseCom™ ThermoSecurity™ System in Illustrator and PDF format. The brand name for this product is ThermoSecure™ by HouseCom™. If you use a unique font, please provide the font with the Illustrator file. *Or outline all your text objects;* [EDIT] – Select; [TYPE] – Create Outlines. *Designs will be graded with whatever typeface appears on screen, so check your files before submitting*.
    • Submit your Illustrator file and a PDF.

2. One brand guide for the HouseCom™ ThermoSecurity™ System (Branded House/Master Brand) to include, but not exclusive to, the following;
    a. Cover Page
    b. Table of Contents
    c. Brand Characteristics – define the main parts of the brand in one to two paragraphs)
    d. Logo Elements – Logotype / Worldmark / Symbol / Emblem / etc…, this section can also contain your logo ‘Clear Space’
    e. Colour study – Pantone value, CMYK, RGB and HEX values.
    f. Typography study – lowercase and uppercase when applicable, including special character
    • Submit a PDF of the document.

1. One detailed user GUI design depicting the main product control features on the home screen for the HouseCom™ ThermoSecurity™ System across **all these platforms views; desktop, phone, tablet, watch and the wall display unit**.
    • Submit working files and a JPG for each design

2. Design one complete product webpage for the HouseCom™ ThermoSecurity™ System for **desktop, phone and tablet.** With mobile up consideration.
    • Submit working files and a JPG for each design

3. Design a one page sell sheet describing the benefits of the product. Size is 8.5 inches by 11 inches, 300 ppi/dpi, CMYK colour space

• Submit a PDF of the document.

4. Include all rough work in digitized formats (photos/scans) in a folder titled “Development Material”.

MMED-1058
A folder named LastName_FirstName_LastName_FirstName_Hackathon.zip— **no .rar files.**

Folder must contain the following

- A Cinema 4D file with assets (Named “Smart Thermostat.c4d)
- At least 6 rendered stills (Numerically Named “Smart Thermostat 1.jpg” presented as a single PDF file
- A rendered animation for use in the application. The movie's aspect ratio must be 16 X 9 and have a size of 1280 X 720 pixels (Preset: HDV/HDTV 740 29.97). Final movie must be compressed as a .mp4/.h264. Uncompressed movies will not be graded. The final render can be used in whatever manner you like.
- One text file with the names of all group members.

All late submissions will incur a 30% reduction off the final awarded grade.

MMED-3039 / MMED-3040
The assignment (repo link) must be submitted to the FOL dropbox.

All late submissions will incur a 30% reduction off the final awarded grade.

Method of Submission:

Repo name:
LastName_FirstName_HWxxx
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.

Submission Deadlines

Project will be assigned on Tuesday, October 18th by 9:00 a.m.
All assignment material for each class must be submitted on Wednesday, October 19th by 5:00 p.m.
Feedback sessions will begin Thursday, October 20th 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 listed in this document. Please read each section carefully. Do not hesitate to ask questions.