



## CS 120 Web Programming Final Project

**Your assignment is to create a “product” that will be pitched to a VC (Venture Capital) firm for funding.** Your product must be a transactional web app that performs a useful task and utilizes an API, database, and server-side programming.

### The Pitch (Project Presentation)

Your pitch should include a PPT with the following:

- the name and a 1 line summary of what your product is
- the problem/need and how your product solves the problem/addresses the need
- how much funding your business needs and how it will be used
- the estimated financial potential for your product and ROI (Return on Investment)
- demonstration of a working prototype of your product

### Deliverables

URL of the working app online

A doc, pdf, or relevant files uploaded with all code.

A PPT/slide deck explaining the following (note, more than one item can be addressed on a slide):

- pitch to VC firm as described above
- why you picked this project
- a few screenshots showing key functionality
- sample of one part of the code you are most proud of (one per team)
- tools/technologies used
- what API did you use and why
- the biggest challenge and how you solved it
- the most interesting and satisfying parts of the project
- list of team members (first and last name) and their contribution to the project
- site any sources used for code help

NOTE: The final project must be submitted to Canvas by one team member ONLY.

## Objectives

- Work collaboratively as a team to build an interactive web application
- Show off what you have learned this semester

This is a GROUP PROJECT. Every member of the group will receive the same grade. If you feel one of your team members is not contributing sufficiently to have earned the team grade – you must tell me at least 5 days prior to the due date (sooner is better)

## Project Topic

Your task is to create a web app and define a business proposition based on the web app. The topic is up to you! It needs to have an intuitive interface and be interactive / useful.

*Note: You are not allowed to copy another app (such as Spotify or Uber) but you can reimagine an existing app as long as you add value to what already exists.*

The objective is to challenge yourselves by getting something interactive and complex working rather than creating an extensive multi-page site. This is your opportunity to take everything you have learned in the course (including how to figure out new web technologies) and create something seriously cool.

## Ideas

Below is an amazing compendium of ideas (also approximately halfway down the page is a list of public API's). You do not need to use any of these, but the list may get your ideas flowing!

<https://flaviocopes.com/sample-app-ideas/>

## Requirements:

- Use HTML/CSS/Javascript and optionally jQuery
- Must use a database(SQL or NoSQL)
- Must use a server-side technology - you may use PHP or Node.js (or both!)
- Must use an external API in real time
- You need to use technologies covered in class. You may request permission to use something that is beyond the course.
- Must be interactive and transactional, and it must perform a useful service for the user
- Must work online

***There is NO requirement for:***

- # of pages
- # of forms

- # of lines of code

However, there are a few givens: the app must be responsive/mobile friendly, have reasonable aesthetics, and have consistent styling and branding.

### **Final Project Review Presentation** (7-10 minutes)

- VC pitch
- design considerations
- demo/show it off! note any special features
- Any other info you think is relevant

### **Rubric**

Meets all requirements: 45 points

Works / technical excellence / creativity: 35 points

Deliverables/Slide deck/Presentation: 20 points