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# PROJECT IDEATION

Final Year Computing Project

## Relevant Context

A list of 5 contexts that could be relevant for my project

1. Mobile Development
2. Server-side Programming / Database
3. Barcode / QR code
4. Browser Extensions (Chrome)
5. Image Manipulation

## Techniques

A list of 5 technical topics that I might explore as part of my project

1. Interactive Design
2. Data Analytics
3. Machine Learning
4. Physical Computing
5. Artificial Intelligence

## Inspiring Work

Works, apps or projects that could inspire my project

CamanJS - is image manipulation in JavaScript. It provides with efficient image/canvas editing techniques, could potentially be used to image manipulation.

<http://camanjs.com/>

Pouch browser extension – Pouch is the UK's no.1 tool for saving time and money when buying online (appeared in an episode of Dragons Den) . Inspired me to investigate browser DOMs and browser extensions, and how powerful they can be.

<https://joinpouch.com/>

Pixlr – website tool for online image manipulation.

<https://pixlr.com/>

## Initial Ideas

Potential project ideas which combine at least one of my contexts with at least one of my techniques.

### **On the Fly Image Manipulation**

Quick on the fly image manipulation by simply right clicking an image. This will most likely be a browser extension and will work with the use and help of the browsers DOM. Manipulation such as Zoom, Crop, Brighten, Sharpen, Blur, Paint, Stickers etc.

(Contexts: Browser Extension, Image Manipulation)

### **Mobile App Business Card**

Prototype a mobile application which acts as a “eBusiness card”. Individuals can scan another person’s QR code (similar fashion to snapchat) and get all their info such as name, email, phone number and/or social links. Previous Scanned QR codes get saved in a local database.

(Contexts: Mobile Development, Barcode / QR code)

### **Product Price Tracker**

Prototype a browser extension to allow people to track a specific item on a specific site and get some kind of update if the price changes.

(Contexts: Browser Extensions, Server-side Programming / Database)

### **Food Allergy using Barcode Scanning App**

Individuals can scan food item barcodes to find out if it contains any allergens.

(Contexts: Mobile Development, Barcode / QR code)