**Group 1\_cw\_3 Project Proposal**

**Baganesra Bhaskaran**

**Joao Lira**

**Maddelynne McGovern**

**Charles Dudley**

**Ideas:**

1. Tic Tac Toe Online Game
2. Groceries Budgeting App

* App that you can add your grocery list
* The app has predefined items to select - you can add custom if needed
* Each item has an approximate price attached to it based on the current market
* Once the list is added – the end of the page shows you the approximate grocery spending based on the list
* Features: - can add people to your shopping list and share the cost

- can share your list with people

- can saved frequently listed items in the grocery - customization

Allowed

* Concept: The prices of items will be updated weekly based on the market

1. Knockoff of <https://www.bookmarkninja.com/>
2. Time management app of sorts?

* to do list with priority, progress bar, different views
* maybe you can view it on different devices
* for assignments you could put in what percent of your grade it’s worth or something
* different views and sorting
  + calendar view, sort by only exams or big projects, etc
* idk it’s just an idea

**Links:**

1. - <https://github.com/IJ-Apps/Grocery-List-App-ListViews-> Github

- <https://www.youtube.com/playlist?list=PLLmkb5CTw5rRsR6reO-ZkbE-QJF-GstwG> - Youtube

**Team Pictures**

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Baganesra Bhaskaran Joao Lira Maddelynne McGovern Charles Dudley

**Team Competency**

1. Baganesra Bhaskaran

| ***Semester*** | ***Prior Experiences/ Coding Skills*** |
| --- | --- |
| Senior Year | * Prior coding experience in C, C#, Java, C++, Python, Ruby (beginner), HTML (beginner), VHDL * Worked on multiple coding projects for different classes throughout my major * Comfortable with working in a group * Took COMS 228, COMS 311, CPRE 424 * Had a Cyber Security Internship under PwC Advisory LLC, working on backend API and Postman collections |

1. Charles Dudley

| ***Semester*** | ***Prior Experiences/ Coding Skills*** |
| --- | --- |
| Junior year, second semester | * Prior coding experience in Java, Golang, HTML (beginner), JavaScript (beginner) * I have taken COMS 230, 227, 228, 311, 319, 321. Through these classes I have worked on many projects, including one group project in COMS 319 * This summer I had a software internship with SyncBak, a video processing company in Marion, Iowa. I individually developed the backend for a web application which interacts with a cloud computing service to accomplish various tasks in the cloud. All of this was done in Golang. |

1. Joao Lira

| ***Semester*** | ***Prior Experiences/ Coding Skills*** |
| --- | --- |
| Junior Year | * Prior coding experience in Java, Javascript. * Secondary skills include HTML, CSS, MySQL * Have worked through many projects throughout university, including 2 group projects. |

1. Maddelynne McGovern

| ***Semester*** | ***Prior Experiences/ Coding Skills*** |
| --- | --- |
| Junior Year | * Prior coding experience in Java, Python, Matlab, and HTML (beginner). * Newbie, took Com S 227, 228. |

**Project Idea 1:**

**Name:** GroKart

**Problem Addressed:** Budgeting for groceries is had since we have to usually be in the

physical location of the store or check the price of each item add up to know the estimated spending that needs to be allocated for grocery shopping.

**Description of project:**

* Millennials nowadays would like to budget items to avoid overspending. Our top priority nowadays is good food and a healthier lifestyle. We spend so much on groceries that sometimes it exceeds our budget. This project addresses this issue by providing an application that provides a heads up on the cost of your groceries based on your weekly/monthly list before you even step into the grocery store or start doing your online grocery shopping. The application will collect the average market price of common grocery items attached with it where users can just add the particular item to their shopping list and at the end of the list get an estimation of their overall grocery list. This would help their budgeting process and lead to more savings.

**Language/ Platform:** Python/ Java or Ruby Not sure. Still under research.

**Large/Complexity:**

* This grocery application provides the large list of common grocery items attached with its average market price.
* The predefined items in the application are not limit, you can add customized item and its price if needed.
* Choose the items needed for grocery shopping then at the end of the list, the application give you an estimation cost of what your spending would be based on the list
* You can add people to the shopping list by having multiple profile created and tagged
* You can add sharing the cost feature with the added people
* The app has a functionality of splitting the cost equally, by percentage or by ratio, and also by separate items
* You can share the grocery list to someone as well
* Based on the usage, you can save/add some specific items to the list Concept: The prices of items will be updated weekly based on the market by the app admin
* Possible update notification when the price drops

**Project Idea 2:**

**Name:** Netmarks

**Problem Addressed:** Saving bookmarks on Chrome, Firefox, or any other web browser, is limited. A user of any web browser can only access the bookmarks they have created on that browser, and they can access none that they may have saved on other browsers. This can be problematic if a user ever accesses the internet from an alternate browser and wishes to recall one of their bookmarks.

**Description of Project:** Many people use different web browsers on their devices, and they are forced to maintain redundant lists of bookmarks on each one. Netmarks will allow users to create and store bookmarks in one location. This will allow users to consult just one list for all of their bookmarks. Bookmarks have names, URLs, notes, and tags. Notes will allow users to attach information about a website they wish to maintain, beyond just the name or URL. Tags will allow users to categorize their bookmarks.

**Language/Platform/Libraries:** Python/ Java or Ruby Not sure. Still under research.

**Complexity:**

* This service will require users to login to access their bookmarks
* Will require an SQL database with various fields and relationships
  + These fields will allow for many different types of sorting, etc.
* Will require a complex GUI
* Could add an option to store a username and password along with the other parts of a bookmark - security considerations
* Could integrate with browsers to open bookmarks directly from application
* Could suggest bookmarks to users based on commonalities with other users (opt-in)
* Could produce graphical representations of data about most frequently used bookmarks across all users
* Could produce graphical representations of user bookmark usage data