

Milestone 2

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Team Two (Group #2)

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Product features list:

- Add product to cart
 - Able to click the button to add an item to a user's inventory/shopping cart.
Feature is essential and is where information is saved/pushed into the program.
- Saves product details from shopping websites including URL, cost, title, etc.
 - When adding an item to the shopping cart, the way that we can save that item is by having all of the proper information stored in an easy to access and user friendly location. This gives easy access to shoppers trying to find the original website, price, name of the product, etc.
- Remove product from cart
 - If one is going to add an item to the cart, they may want to remove that item later or swap it with a different item, to do this we need a feature that is able to delete objects from the shopping cart, aka a remove product from cart feature.
- Save item quantity
 - When saving an item, choose how many items to save for later purchase
- Updates user when sold out
 - By having information like item quantity stores in a location, we should be able to track when that item is no longer in stock and notify customers that the product has sold out.
- Updates user when no longer available
 - When an item or address to an item are removed or changed, it will notify users that the item is no longer being sold or the link is no longer valid.
- Login and save cart
 - By storing basic user information we are able to create a login system where users have their own unique id's and unique shopping carts that are saved to that user.
- Google extension to save product to account
 - Basically the same as the website, but saves cart on small side windows on the screen, access or quick add to folders/carts, and open links to the main website.
- Sort products by type of product, price, store, date added
 - Feature that stores meta information, up to the user's discretion as far as sorting, but open to sorting by price, a-z, store, etc.
- Create folders and add products
 - Meant to help organize shopping carts by breaking items into further lists or categories that can be customized (i.e. christmas presents, wedding gifts, etc)
- Purchase the items
 - Purchase items from subwebsite windows for the actual item shop, but able to do it through the website or chrome extension.

- View purchase history
 - Ability to look back and see items that were purchased from site, able to mark items that may not have been purchased from site but were on list as purchased.
- Sort purchase history by store or type of product
 - Further ability to sort items lists, this time from within purchases
- Sharing a link to carts/lists
 - Able to send friends a link to one's cart or wish lists so others can buy items for them as gifts or use for gift ideas.
- Analyse purchase history
 - Able to analyse previous purchases to see where money is being spent.
- Suggest similar items
 - Able to view similar items to those in the cart to see if there are better prices or items available.

Requirements:

Functional:

- Purchase items from the cart using a pop up window
 - As a customer, I want to be able to purchase items from the cart in a pop up window, so that I can easily purchase the items.
- Automatically prefill customer details when purchasing items
 - As a customer, I want my details to be prefilled in the purchasing pop up window, to save me time.
- Login to the website
 - As a customer, I want to be able to save my online purchases so I can easily come back and see the items I want to buy without visiting multiple websites.
- Add account details including name, email, home address, phone number, billing address
 - As a customer, I want to be able to save my personal details, in order to have them prefill in the purchasing pop up window.
- Update account details
 - As a customer, I want to be notified if an item I want is about to sell out so that I don't miss the opportunity to buy something important.
- Save items to cart by pasting url
 - As a customer, I want to be able to save any item to my cart in the easiest way possible, which is why it's great I can save the link and the rest is done for me.
- Save items to cart by clicking google extension
 - As a customer, I want to be able to easily add items to my cart by clicking on the google extensions, so that I don't have to manually add each item using their URLs.
- Save item details including url, name, type of item, storename, date added, price

- As a customer, I want to be able to easily see and access all of my items details, so that I don't need to constantly switch between websites.
- Update item quantity
 - As a customer, I want to be able to buy more than one item if the situation calls for it, and this is the easiest when I can modify the amount of items I'd like to purchase
- Sort items in cart by store
 - As a customer, I want to sort the items I want to purchase so I can have my higher priority purchases at the top.
- Sort items in cart by type
 - As a customer, I want to be able to sort the items I want to purchase by type of item, so I can compare similar items to decide which to purchase.
- Sort items in cart by price
 - As a customer, I want to be able to sort the items I want to purchase by price, so I can find the cheapest items to purchase.
- Remove item from cart
 - As a customer, I want to be able to remove items from my cart when I no longer want to purchase them or I purchased an alternative.
- Create folder in cart
 - As a customer, I want to be able to create item folders in my cart so I can group items together, for things such as christmas present ideas and birthday present ideas.
- Add items to folder in cart
 - As a customer, I want to be able to add items to the folders in my cart so I can see all of the items together that I grouped together.
- Delete folder in cart
 - As a customer, I want to be able to remove a folder from my cart that is no longer relevant.
- Remove items from folder in cart
 - As a customer, I want to be able to remove items from folders when I no longer want to purchase them.
- View purchase history
 - As a customer, I want to know how much I have spent online shopping so that I can potentially return an item if my interests change and balance my budget.
- Sort purchase history by date
 - As a customer, I want to sort by previous purchases by date to see when I bought my items.
- Sort purchase history by store
 - As a customer, I want to sort my previous purchases by store to see what I bought from each store.
- Sort purchase history by type
 - As a customer, I want to sort my previous purchases by type to see what I have bought of each type.

- Sort purchase history by price
 - As a customer, I want to sort my previous purchases by price to compare the items by price.
- Notify when item is out of stock
 - As a customer, I want to be notified when an item is no longer in stock, so I can find an alternative item to purchase.
- Notify when item is unavailable
 - As a customer, I want to be notified when an item is no longer available, so I can find an alternative item to purchase.
- Share public link to cart
 - As a customer, I want to be able to share the contents of my cart with friends and family, so I can show them the items I want to buy.
- View another user's cart
 - As a customer, I want to be able to view my friends or families carts to see what they would like to purchase.
- Analyse purchase history to view amount of money spent by day, month and year
 - As a customer, I want to be able to see how much money I am spending in each day, month or year to be able to keep track of my spending habits.
- Analyse purchase history to view amount of money spent in each type
 - As a customer, I want to be able to see how much money I am spending for each type of item, so I am able to keep track of my spending habits.
- Suggest similar items
 - As a customer, I want to be able to see items that are similar to those that I may be purchasing to compare and contrast and make sure I am getting the best deal for my money.

Non-functional:

- HTML coding will provide the screen/user interface that appears when someone visits our website
 - As developers we want to be able to code the most efficient and user friendly experience for all consumers of our product, this means that we will need a great UI when people use our website for their shopping, one so good that it's better than the handful of websites they could shop from.
- Website must be able to handle 200,000 visitors at once
 - As developers, we want a mass amount of people to be able to use our website so we can show them ads and data mine to make more money.
- When the user purchases items on UCartify, the money goes to each website/company.
 - As developers, we want people to continue to use our website, so we charge them the actual price of an item, without any hidden fees, (for now).
- Will be able to add an item to the cart by clicking on the google extension
 - As developers, we want to make it as easy as possible for our users to buy the things they want and use our website in the most convenient way possible.
- Database will store all item details and user details

- As developers, we want to be able to store user information for their benefit and ours, if we want to implement future algorithms or recommend items later, item history and user information are key pieces of information.
- Once items are added to UCartify, there will be a picture/icon saved to our database and showed on the user's personal page
 - As developers, we want the most user friendly experience, so we do all the work of getting the item's pictures parsed and showing you what each product is.
- Datamining
 - As developers who don't charge to use the app, we intend on sharing users information with big companies to help make a profit. This is a hypothetical though.
- Advertisements for paid for suggested items
 - As developers, we want to make money in addition to suggest items that our users might want to buy. This way our users buy the things they enjoy and we can get rewarded for our hard work.

Project plan:

https://docs.google.com/spreadsheets/d/1ieBzFogQa_EsSalxdFnNrQN3exYeHdhjnMz9kZpBxxg/edit#gid=0

Notes from class:

<https://sreeshanath.github.io/Spring%202020/Project%20Milestones/Project%20Milestone%20/index.html> -

Project features list:

- Document (as a bullet point list) the major FEATURES of your software application.
- Each features should have a TITLE followed by a brief DESCRIPTION of that feature.

Requirements:

- Document the key FUNCTIONAL and NON-FUNCTIONAL requirements for a minimum of SIX features.

EXAMPLES OF FUNCTIONAL REQUIREMENTS

- The software automatically validates customers against the ABC Contact Management System
- The Sales system should allow users to record customers sales
- The background color for all windows in the application will be blue and have a hexadecimal RGB color value of 0x0000FF.
- Only Managerial level employees have the right to view revenue data.
- The software system should be integrated with banking API
- The software system should pass Section 508 accessibility requirement.

CHARACTERISTICS OF NON-FUNCTIONAL REQUIREMENTS

- **Usability:** Usability defines how difficult it will be for a user to learn and operate the system. Usability can be assessed from different points of view:
 - **Efficiency of use:** the average time it takes to accomplish a user's goals, how many tasks a user can complete without any help, the number of transactions completed without errors, etc.
 - **Intuitiveness:** how simple it is to understand the interface, buttons, headings, etc.
 - **Low perceived workload:** how many attempts are needed by users to accomplish a task.
- **Security:** Security requirements ensure that the software is protected from unauthorized access to the system and its stored data. Security also includes protection against viruses and malware attacks.
- **Reliability:** Reliability defines how likely it is for the software to work without failure for a given period.

CHARACTERISTICS OF NON-FUNCTIONAL REQUIREMENTS

- **Performance:** Performance is a quality attribute that describes the responsiveness

EXAMPLES

- You may set accessibility requirements: Keyboard users who navigate a website using <tab>.

- Follow one of the formats/templates provided in class.
- What is a user story?
 - **What** : Description of the feature
 - **Who**: Person who will use or benefit from the feature.
 - **Why**: "business value"
 - **When**: Depends on the priority
- Your application will likely have many more features, and you should create requirements documents for all the features.
- But for this milestone, you need only turn in SIX requirements documents.

Project plan:

- Create a Project Plan in your chosen Project Management tool. May be a GANTT chart, Kanban board, or other suitable format.
- The Project Plan should include each Feature that is to be developed.
- The Project Plan should indicate the SEQUENCE of Sprints. That is, the plan should show in what order the features will be developed (designed, coded, tested, integrated.)
- The Project Plan should show for each feature WHEN (by calendar date) the feature will be worked on.
- The Project Plan should show for each feature WHO will be working on the development of the feature.
- The Project Plan should result in a completed, working application that is ready to present by April 22, 2020