

GROUP H

Team members:

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Github link:

<https://github.com/trungnguyen10/CSC4330ProjectGroupH>

Members' contribution:

- Trung Nguyen: user stories, system architecture, product backlog, sprint backlog
- Justin Nguyen: user stories, product backlog, sprint backlog, organizing documents
- Andres Oberhelman: user stories, product backlog, sprint backlog
- Blake Opial: user stories, product backlog, sprint backlog
- Devin Pardo: user stories, product backlog, sprint backlog

User Stories

Trung Nguyen User Stories:

1. As a student, I want to be able to sign up for the system using my student email and a password so that I can buy can sell items in the system with other students in the university
2. As a registered user, I want to be able to login to the system using my student email and my password.
3. As a registered user, I want to be able to see recently posted listings for sale after I log in. Every listing needs to have a title, an image, and a price.
4. As a registered user, from the homepage, I want to browse as many listings as I want by browsing page by page.
5. As a registered user, I want to be able to make a search within the home page. I want to be able to use one or more words to search for items which I want. Those words can be either the title of the listing or the tag of the listing. From the results, I want to be able to filter the result by different categories such as price, date listed, tags
6. As a registered user, I want to be able to filter the listings in the home page by price
7. As a registered user, from the home page, I want to be able to create a new listing to sell a product.
8. As a registered user who want to sell an item, I want to be able to make a new listing with following information: title, images, price, contact information, and tags
9. As a registered user who is creating a new listing, I want to be able to quickly tag the listing by a set of predefined tags such as: appliances, books, computers, electronics, video gaming, clothes, others, ...
10. As a registered user, I want to be able to access to my profile page where I can find my information, and my listings
11. As a registered user who is selling items on the system, I want to be able to edit the price of a listing from my profile page.
12. As a registered user who is selling items on the system, I want to be able to remove a listing from my profile page when the listing is sold or no longer available
13. As a registered user, whenever I see a listing whether in the home page, or search result, I want to be able to add that listing to my wishlist so that I can check it back any time when I decide to buy it.
14. As a registered user, whenever the price of a listing which is in my wishlist changes, I want to be notified of this change. This notification should be an alert so it can catch my attention.

Justin User User Stories:

1. Signup: A new user enters the website for the first time unaware of what the website is like, but aware of the services provided. They browse the front screen and see a highlighted button in the corner prompting them to sign up. After clicking the signup button the user fills out the form for signing up.
2. Login: On this website, there are multiple ways to login to an account. The first way is on the front page of the website. There is a login button on the top right next to the signup button. The user wants to use a service, already has an account but has forgotten to login. When trying to access the service, they are redirected to a login page.
3. Home Page: The user enters the website via a link through a search engine. The link brings them to the home page. On the home page, there is a section with newly posted items from sellers on the website. The section is a revolving window, periodically switching to another item. If the user clicks on the section, it brings them to the desired item.
4. Home Page Browse: When the user enters the home page, there is a catalog of suggested items. This particular user has no account so the catalog recommends popular items and vendors to the user. There are several other catalogs with suggested items based on a genre; tech, home goods, etc. The user clicks on an item in this catalog. They aren't interested in buying the item so they hit the back button. When they do, they are returned to the catalog where they were at, the same position, and the same items in the catalog from before.
5. Home Page Search: The user wants to search for a genre of item. At the top of the webpage, there is a section with a search icon and area where you can type in your search. The user types in a vague search term and the database does its best to create a suggestion based on what the user has typed. The user sees a suggestion and clicks on it. If the term fits a tag, the search pulls up items listed under the tag.
6. Homepage Filter: The user wants to exclude certain types of items from the catalog on the homepage. The user already has an account and is signed in. On the top left of the catalogs of items is a dropdown menu with the name "filter by." The user clicks on this menu and is presented with a check mark box with various criteria they want to filter by. When the user clicks on a check mark, the catalog seamlessly refreshes in the background with items that fit the filtering criteria. When the user logs off, the filters are not saved.
7. Homepage New Listing: The user logs in to their account wanting to sell an old couch. After logging in they are directed to the homepage. On the home page, there is a drop down menu linked to the user's profile icon. When the drop down is activated, there is an option to add a listing. The user clicks on "add listing" and is redirected to a form they have to fill out going over the details of what they are selling, how many, and how they want to deliver the product. The user fills out all required documents and hits the continue button. The listing is added to the catalog and can be viewed by others.
8. New Listing: When a new listing is created there are many items on the form that need to be filled out. The Item title is what is displayed in the catalog. There is an optional section for item description that is displayed when the item is opened in the catalog.

There is an optional check box section for item tags that the listing will go under. Price, contact information, and title are required for the listing to be posted.

9. Predefined tags: The user wants to search items based on predefined tags created by the website. The user opens up the search bar. The search bar is a drop down menu with suggested terms but has a button to search by tag. The user presses search by tag, they are redirected to a page with a list of tags organized in alphabetical order. At the top of the page, there is a search bar to search for specific tags. The user presses the search bar and selects multiple tags. The tags are pushed into a list of tags the user has selected. The user presses enter to pull a catalog of items that match their search tags.
10. The user wants to edit the price of their listing. They go to the account section of the home page and select the option called "my listings." The user is redirected to a page with a list of their current listings in their cataloged forms. On each catalog there are multiple option buttons for the function "edit listing." On the edit listing drop down, the user is presented with several options.
 - a. Edit listing: The user is redirected to a form where they can change the details of the listing. At the bottom of the page there is an option to cancel or save the changes.
 - b. Remove listing: The user can remove the listing with the press of a button. After the button is pressed, a prompt pops up asking if the user wants to delete the item. The user can cancel or confirm.
11. When the user is browsing, there is an option on every item to add the item to a wishlist. If the user does not have an account, they are redirected to the sign up page. If the user does have an account, the item is added to a wishlist section located in the users account section.
12. If the user wants to receive a notification of when an item changes price, they can select an option on the item page "notify me when the price changes." If the user has an account an email will be sent to the email tied to the account. If the user has no account, they receive a prompt to sign up.

Andres Oberhelman User Stories

1. As a student of Colombian State University, Sarah wants to sign up to access the online marketplace. Sarah applies by submitting her email and creating a password for her to use. The system then verifies her email.
2. Kenedy wants to login into her student profile on the market place. She enters the website and puts in her email and password in the designated slots and logins.
3. Anthony looks through the recently posted items to see if he can find a bookbag to use for class.
4. Michael browses through the items trying to find school materials for his next semester classes.
5. Alexis needs a new phone charge so she looks up electronics in the search area and goes to the tag that says electronics and searches through the listings with the search term "charger" and finds the one she needs.
6. Annie wants to buy a notebook for her art class but could not afford an expensive one so she filtered the price to make the listed only show ones that were less than \$30.
7. Mark wants to sell his laptop on the market place so he creates a new listing on the homepage for his 2014 Macbook Pro.
8. Mark creates a new listing by adding a title, description, image, price, tags, and contact information into the site and his listing is then created and is shown on the website.
9. Annalise needs a highlighter to take notes in her science class. She adds the school supplies tag and the drawing tag and it shows her all the items that fit those tags.
10. Meghan is selling a handbag on the marketplace but notices she put the wrong price on the item. She clicks her profile and goes to edit the price of the listing and changes it.
11. Andy added three textbooks to the listings on the website but decided to keep one of them so he clicks on his profile icon and goes to remove listing and removes one of his listings.
12. Cindy wants to buy a certain handbag but cannot afford it at the moment. She clicks on the listing and adds the item to her wishlist so she can go back and buy it when she can afford it.
13. Abbey is searching through the listings for a certain textbook and after a while a notification appears on screen letting her know that the same textbook she added to her wishlist has gone down in price. Knowing this Abbey goes and buys the textbook.

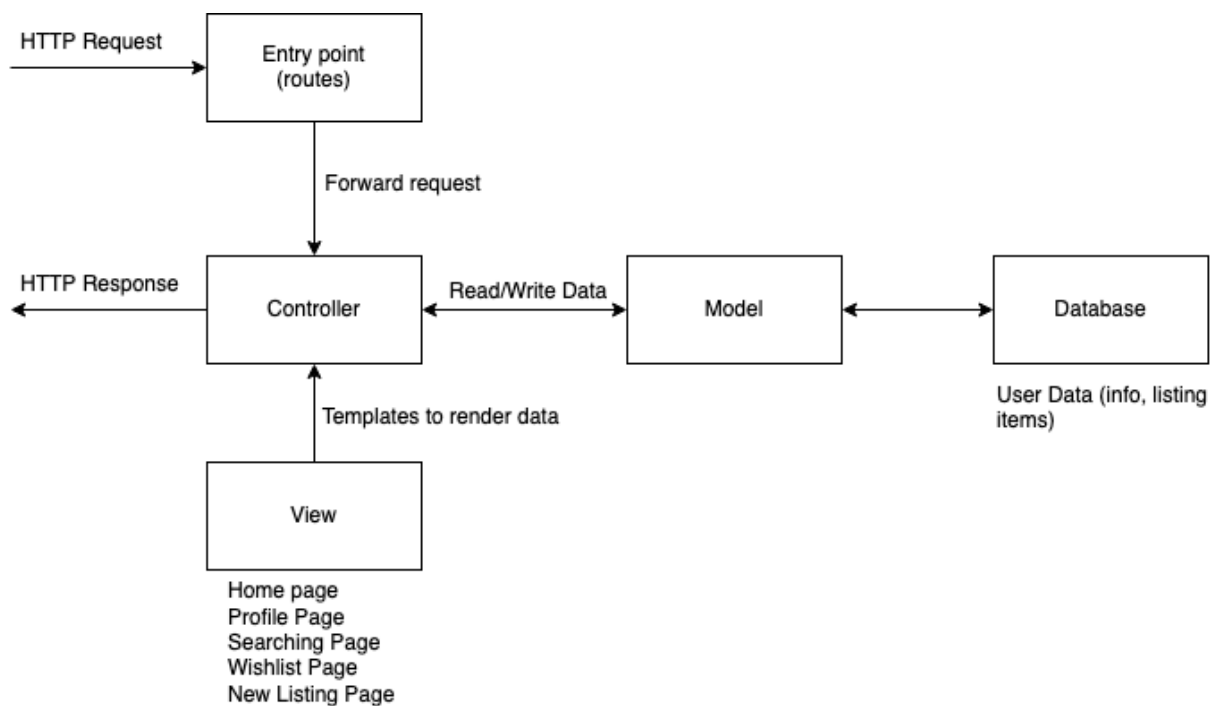
Blake Opial User Stories

1. As a student, I want to sign up to use ColumbusList with a verified school email and password.
2. As a user, I want to be able to log into ColumbusList using the same email and password I created my account with
3. As a user, I would like to see all of the most recent listings.
4. As a user, I would like to be able to browse various listings on a homepage.
5. As a user, I'd like to be able to search for specific items under predefined tags
6. As a user, I'd like to filter all listings by categories(price, alphabetical, etc.)
7. As a user, I'd like quick access to add my own listing from the homepage
8. As a user selling an item, I'd like to create my own listings with a description, price, and images that I determine.
9. As a user selling an item, I'd like to be able to give my listing specific tags to be found easier from the search feature.
10. As a user selling an item, I'd like to be able to adjust the price of my listings from my account page at any time.
11. As a user selling an item, I'd like to remove my item from being listed whenever I finally sell it to someone.
12. As a potential buyer, I'd like to be able to save any listings I'd like to come back to in a wishlist.
13. As a potential buyer, I'd like to receive a notification if any listings in my wishlist adjust their prices.

Devin Pardo User Stories:

1. Signup: As a student, I would like to sign up with a username, password, email, and phone number.
2. Login: As a student, I would like to sign in with my username or email and password.
3. Homepage-
4. Recently posted: As a student, I hope to see new items posted and constantly update when I open and refresh the site.
5. Browse: As a student, I hope there will be multiple ways to look at miscellaneous or specific items while I scroll through the homepage.
6. Search/Querying Tag: As a student, I want to be able to search for items by typing a specific name or classification tag.
7. Filter: As a student, I would like to have a filter that will go through items by name and price and be able to go from increasing or decreasing order.
8. Make a new listing: As both a student and seller, I would like to be able to sell an item by simply tapping a button on the homepage.
9. New listing: title, description, images, price, contact information, tags: As a student and seller, I would like to type a title, description, price, and contact information for a listing while being able to put as many pictures I need for it.
10. Pre-defined tag: As a student, I would like all tags to be predefined so that it would be easier to look for or classify an item quickly and easily.
11. Edit price of a listing from the profile page: As a student and seller, I would hope to change the price of my listings within my profile page.
12. Remove listing from the profile page: As a student and seller, I would like to delete a listing on my profile page and have a caution message so that you can truly make this decision final or not.
13. Wishlist: As a student, I would like to make a Wishlist in order to save items I want to get at a later date.
14. Notification alert when price changes: As a student, I want there to be a notification that tells me when a price has increased or decreased in my Wishlist.

System Architecture



Product Backlog

Requirements Specification Document

Home Page

- Recently posted items from item database
- Browse items by scrolling
- Search item by title
- Search item by tag
- Filter item by price
- Link to Create New Listing page
- Link to Profile page

Sign Up

- Email verification
- Sign up form

Login Page

- Verify Email/Password
- Pull information from User Database
- Redirect to Home Page

Profile Page

- User information
- Change password
- User's current listings
- Edit price of posted listing
- Remove a listing

Item Catalog (What the user shops)

- Items from item database
- Scroll feature to browse
- Asynchronous loading
- Images from item database
- Accounts attached to items
- Add to cart/wishlist
- Organize by search
- Organize by tag
- Organize by price
- Organize by filter

Item Page

- Picture gallery of the item
- Basic information (Price, Owner of the object)
- Tags
- Add to Wishlist button
- Add to cart

Item Database

- Name of Product
- Price
- Owner information
- Associated Tags

User Database

- Email (**@colombus.edu)
- Password
- User created Listings

Refactoring code to improve understandability and performance

Sprint Backlog

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