Team 4, Recitation 204, Bugs Life

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Application name: Buff List

Features:

- Login button
    - Allow user to create a username and password so that they can access the website and if they already have one they can simply enter them
- For Sale Page - Functions as home page
    - Page that allows you to browse the currently for sale items on campus. This page would look similarly to the craigslist for sale page where the user can scroll through the items available.
- Add Item button
    - Allows you to put a listing on the for sale page. A photo, description, and price are included in the listing. User also adds tags that help to identify what class of item it is.
- Item Search
    - Allows user to filter items based on tags assigned when the item when the listing was created
- My account
    - This button allows users to look at their account including history of items posted and what they have viewed recently. Users can also upload a profile picture, a small description, and their location if they want to.
- Event Calendar
    - Users can put their events onto the buff list calendar so others can view them.
- About us page
    - Users have the option to read up on what buff list is and what it does

Requirements
Functional:
   Login:
- Users have the ability to create a username and password simply
- Users can then use that username and password to login
   For Sale Page:
- Users can add items for sale to the for sale page
- Users can scroll through the for sale page to browse items that are already there
   Add Item Button:
- When the button is clicked it opens a form for the user to fill out information about their item. A photo, description, price, etc

- User can then submit the item and it will go live on the for sale page

Item Search:
- Users can search for certain items by selecting the tags attached to the item that they are looking for. The search bar would be on the for sale page
- These tags would be assigned by sellers when creating their posting

My Account:
- The user will be able to view their selling history, change their profile settings, and provide details for other users to contact them about a posting.

Event Calendar:
- A place for users to advertise their events relating to clubs, organizations, etc. Users can simply add an event and choose the date, a title, and a description to add one.

About us page:
- On the about us page, users can read about how to use bufflist, view FAQs, and watch a short video on how to post an item. This way users can familiarize themselves with the site.

Non-functional:

Login:
- A method for storing and accessing usernames and passwords must be developed. Storing them in our SQL database is a likely solution.
- Javascript will likely have to be written to do username and password validation.
- If a user forgets their username and password we will have to design a way for them to recover it.

For Sale Page:
- Name, description, and photos of an item will have to be sent to our database for later retrieval.
- When a user clicks on an item we will have to populate a small page for the item with all of its information. SQL queries will be required to located the correct information.

Add Item Button:
- The form we design for add item will feed into the database which stores our website's information.
- Limiting the number of items a user can add may help prevent bots from creating false postings which could inundate the website.

Item Search:
- A search algorithm will have to be implemented which allows users to track down items based on the keywords that they are looking for.
- This keyword would have to boil down to things we could query for from our SQL database.
- A limit may have to be assigned on the granularity of the search to make it possible.

My Account:

- On my account we will need to cache past postings that the user has made in our database. Perhaps when an item times out we will move it into another table and be assigned to that user's specific ID.
- The rest of the information can be readily retrieved from the user information table in our database.

Event Calendar:
- The google API will be accessed to help us implement the calendar feature. Accessing google's robust calendar system will allow us to create a strong and useable feature.

About us page:
- The about us page will be mostly static text hard coded into our html page. No database retrieval will be necessary.

Project Plan:
(order of priority)

TO DO	Due Date and By who	NEEDS TESTED	FINISHED
(non functional) For sale page	Joshua R (10/24)	TBD	
About us	Matt S (10/31)		
Event Calendar	Neel Karsanbhai(10/31)		
Login/Account	Sam G, Hiba A (11/14)		
Add item	Lincoln Rychecky(11/7)		
Item search	Sam G, Lincoln R (11/7)		
My Account(user view)	Josh R, Matt S (10/31)		
(functional) For sale page	Lincoln Rychecky(11/30)		