MyUniMarket

Sprint 2 Planning Document

Team 24

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Sprint Overview

During this sprint, we hope to successfully implement detailed parts of the listing functionality such as filtering, along with the ability of viewing others' profile, password recovery, and others. We will utilize our easy-to-use web pages in order to facilitate these functionalities.

Scrum Master: Nick Litman

Meeting Plan: Wednesdays 7:00 pm & Sundays 2:00 pm

Risks and Challenges:

This majority of this sprint will involve us building the foundation for the listing - the backbone of any marketplace application. We have to implement our user stories in a specific order, i.e. we cannot test if the filter function works until list viewing is fully functional, so if a user story takes longer than intended we may fall behind. Moreover, creating many different aspects on many different parts of the site will be quite difficult, especially to make sure they are all interconnected and work efficiently.

Current Sprint Detail

User Story #1

As a user, I would like to be able to recover my password in the event it is lost

#	Description	Estimated Time	Owner
1	Create page to display fields for password recovery	2 Hrs	Conley
2	Create page to edit password recovery from email link	2 Hrs	Conley
3	Validate submitted fields	3 Hrs	Giorgi
4	Send email to the given purdue.edu email	3 Hrs	Mihir
5	Ensure validation link directs user to a page where they are prompted to enter a new password	3 Hrs	Mihir
6	Test that the validation code is successfully delivered to the user's email address, and password is able	2 Hrs	Sakshi

Acceptance Criteria

- Given that the user has a valid registered account, if they attempt to request a password recovery, an email will be sent with a link to change their password.
- Given that the user does not have an account registered with their email, if they attempt to request a password recovery, the site will give an error to the user.
- Given that a registered user has a requested password recovery, they will still be able to login with their old password until their password is changed via the link sent to their email.
- Given that the user has recovered their password, their old password will no longer work during login.

User Story #2

As a user, I would like to be able to view other users' profiles

#	Description	Estimated Time	Owner
1	Create UI panel to display link to other user's profile via a listing	2 Hrs	Conley
2	Create profile page that will be filled with any given users profile details	2 Hrs (each)	Sakshi Conley
3	Create link on listings that redirects to the seller's profile page	2 Hrs	Conley
4	Testing of session variables and redirection	2 Hrs	Mihir

Acceptance Criteria

- Given that a seller has posted a listing, if the user views the seller's listing, then the user can see the seller's username on the listing.

- Given that the user is viewing a listing, if the user clicks on the seller's username, then the user is redirected to the seller's profile page.

- Given that the user has clicked a seller's username, if the user views the seller's account, then the user can view the seller's other listings.

User Story #3

As a buyer, I would like to be able to view listings for items

#	Description	Estimated Time	Owner
1	Create UI interface for listing containers and associated functionalities (creating market.html - very large chunk)	5 Hrs	Conley
2	Fetch the listings from the database and handle it with PHP.	4 Hrs	Giorgi
3	Recursively print the items on market page sorted by time as a default	2 Hrs	Mihir
4	Test correctness of fetching and outputting	4 Hrs	Sakshi

Acceptance Criteria

- Given that the user is logged in, they should be able to view listings sorted by time as a default on the market page

- Given that the fetching is handled correctly, the database should return a whole table of items with all their categories.

- Given that the javascript is handled correctly, the page should display all of the listings in correct manner, including all the necessary categories and fields.

User Story #4

As a buyer, I would like to be able to sort items by category

#	Description	Estimated Time	Owner
1	Create UI panel to add filtering tags	3 Hrs	Conley
2	Create Button to search with filters tags	2 Hrs	Conley
3	Retrieve items from DB which match the filter's tags	3 Hrs	Mihir
4	Functional Testing of category filter tags	2 Hr	Sakshi

Acceptance Criteria

- Given that the user already has an account that is logged in, when they are on the market page, they are shown options to search with filters.

- Given that the user already has an account that is logged in, when they are on the market page and choose the option to search via category and select a specific category, they are only shown the listings which matches the searching category.

- Given that the user already has an account that is logged in, when they are on the market page they should be able to select multiple filtering tags which will be **AND**'ed and applied to the search to display listings which match the searching criteria.

User Story #5

As a buyer, I would like to filter items by price

#	Description	Estimated Time	Owner
1	Create UI panel to display price filter	2 Hrs	Conley
2	Update listings displayed based on selected price interval	2 Hrs	Sakshi
3	Display listings in order of greatest relevance to the selected parameters	3 Hrs	Sakshi
4	Testing of display functionality with different parameters selected	3 Hrs	Nick

Acceptance Criteria

-   Given that the user has not selected a price range, if the user views the market page, then they will see listings in order of their posting date.

-   Given that the user has selected a range, if the user views the market page, then they will see listings in order from most relevant to least relevant provided by the price filter.

-   Given that the user changes their selected price range, if the user views the market page, then the listings shown will be updated based on what the user selected.

User Story #6

As a seller, I would like to be able to edit my listings after they are posted

#	Description	Estimated Time	Owner
1	Create page for editing of user listings	2 Hrs	Conley
2	Page is auto-filled with values in items table in DataBase	2 Hrs	Gigi
3	Retrieve changed values using GET/POST via PHP	2 Hrs	Mihir
4	Validate submitted fields	2 Hrs	Gigi
5	Store the validated fields inside new entries in items table in MySQL database	2 Hrs	Mihir
6	Usability Testing of Edit Listing page	3 Hrs	Nick

Acceptance Criteria

- Given that the user has correctly modified all required fields in the listing, if they attempt to edit their listing, then the updated listing is edited in the database.

- Given that the user have not filled out all required fields in the listing, if they attempt to post their listing, then the listing is not edited in the database and they are prompted to fill the remaining required fields.

- Given that the seller has not uploaded an image for the listing, a default thumbnail should be displayed for the listing.

User Story #7

As a seller, I would like to be able to take down my listings

#	Description	Estimated Time	Owner
1	Create UI panel for taking down already posted listings.	2 Hrs	Conley
2	Add a delete button with a confirmation prompt.	3 Hrs	Nick
3	Take in the specific item from user input and handle it with PHP.	3 Hrs	Giorgi
4	Send a MySQL query to remove the specified item from the items table.	4 Hrs	Giorgi
5	Testing	3 Hrs	Nick

Acceptance Criteria

- Given that the user has already created a post, they should be able to take it down.

- Given that the inputs are handled correctly, PHP should correctly identify the item that the user is trying to remove.

- Given that the database is implemented correctly, PHP should send a query to the database which will result in the removal of the specified item.

User Story #8

As a seller, I would like to be able to remove my items after completing a transaction

#	Description	Estimated Time	Owner
1	Create UI panel for the removal of a post	2 Hrs	Conley
2	Create UI panel to ask the user to confirm their deletion	2 Hrs	Sakshi
3	Delete post from the database	2 Hr	Giorgi
4	Test and ensure post is properly deleted	3 Hr	Nick

Acceptance Criteria

- Given that the user has a post and have finished their transaction, they should be able to remove it from the website.

- Given that the user clicks the delete post button and confirms, it will be removed from the database and will not be viewable by any user.

- Given that the user clicks the delete post button and does not confirm, it will still be viewable by any user.

User Story #9

As a seller, I would like to be able to communicate with a potential buyer via private email

#	Description	Estimated Time	Owner
1	Once the button is clicked, retrieve emails of both Buyer and Seller from database	2 Hrs	Sakshi
2	Send email to seller with the buyer's email and listing details	3 Hrs	Mihir
3	Test that the email communication works	2 Hrs	Sakshi

Acceptance Criteria

- Given that the button was clicked from a potential buyer, an email is sent to the seller.

- Given that the email is sent to the seller, it should contain the buyer's email address for communication.

- Given that the email is sent to the seller, it should contain the listing's specific details for clarity and convenience.

User Story #10

As a buyer, I would like to be able to communicate with a seller via private email

#	Description	Estimated Time	Owner
1	Create UI button on each post that the buyer can push	2 Hrs	Conley
2	Hide button if user has already clicked it during their session	2 Hrs	Sakshi
3	Testing the hiding functionality	2 Hrs	Giorgi

Acceptance Criteria

- Given that the UI is implemented correctly, the buyer can click an "I'm Interested" button which sends an email to the seller.

- Given that the button on a specific post had previously been clicked by the buyer, and they have not logged out, they can't click the "I'm Interested" button again.

- Given that the button on a specific post had previously been clicked by the buyer, and the buyer has reset their session variables, they are able to click the "I'm Interested" button again.

User Story #11

As a buyer, I would like to know the location of the seller in order to find the most optimal listing

#	Description	Estimated Time	Owner
1	Create UI panel to display the location	2 Hrs	Conley
2	Get the location from the database to display it	2 Hrs	Giorgi
3	Validate that the location has been displayed correctly.	2 Hr	Giorgi

Acceptance Criteria

- Given that the location is properly displayed on a listing, if the user views the listing, then the user will be able to view the sellers given location

- Given that the location is too long, it will be shortened when added to a listing via Javascript.

- Given that the user wants to purchase an item that is close to them, they can email back and forth with the seller to find a close mutual spot for the transaction.

User Story #12

As a developer, I would like to allow only the authorized users to view or modify their listings.

#	Description	Estimated Time	Owner
1	Implement security on every page except sign-in/register using SESSION variables to allow only logged in users to view or modify them.	3 Hrs	Gigi
2	Check SESSION variables on every page	3 Hrs	Mihir
3	Test authorization for every page	3 Hrs	Giorgi

Acceptance Criteria

- Given that user is not logged in, the user should be able to view signin.php and register.php.

- Given that user is not logged in, the user should not be able to view any page other than signin.php and register.php

- Given that user is logged in, the user should be able to modify only listing and account information related to the logged in user.

User Story #13

As a user, I would like to solely focus on selling used school products in a local domain.

#	Description	Estimated Time	Owner
1	Ensure that a user may only be able to sign up with a purdue.edu email, essentially restricting MyUniMarket to the greater West Lafayette, IN area	3 Hrs	Nick
2	Ensure appropriate categories that are related to school products are available	3 Hrs	Nick
3	Testing the functionality	2 Hrs	Nick

Acceptance Criteria

- Given that the user is a Purdue student, allowing them access via their purdue.edu email, they should be located in the West Lafayette area.

- Given that the user is searching for/creating a post, appropriate categories such as textbooks, calculators, etc. should be easily findable to filter for viewing.

- Given that the user is creating a post, they must put their relative location which will be around Purdue University's campus.

Remaining Backlog

Functional

1. ## <u>User accounts</u>

    As a user,

    a. ~~I would like to be able to register for a MyUniMarket account with a purdue.edu email~~
    b. ~~I would like to be able to verify my account registration through email~~
    c. ~~I would like to be able to login to my MyUniMarket account~~
    d. ~~I would like to be able to sign out of my MyUniMarket account~~
    e. ~~I would like to be able to edit my account information~~
    f. ~~I would like to be able to recover my password in the event it is lost~~
    g. ~~I would like to be able to delete my account~~
    h. ~~I would like to be able to view other users' profiles~~

2. ## <u>Listings</u>

    As a buyer,

    a. ~~I would like to be able to view listings for items~~
    b. I would like to be able to search for items using keywords
    c. ~~I would like to be able to sort items by category~~
    d. ~~I would like to filter items by parameters such as price~~
    e. I would like to be able to bookmark a listing **(if time allows)**
    f. I would like to be notified if one of my bookmarked posts has been sold **(if time allows)**
    g. I would like to be able to see how many people have viewed a listing **(if time allows)**

    As a seller,

    h. ~~I would like to be able to list items for sale~~
    i. ~~I would like to be able to provide the quality of my item for sale~~
    j. ~~I would like to be able to set an asking price of my item for sale~~

k. ~~I would like to be able to write a description of my item for sale~~

l. ~~I would like to be able to edit my listings after they are posted~~

m. ~~I would like to be able to take down my listings~~

n. ~~I would like to be able to categorize my item for sale~~

o. ~~I would like to be able to display my location on my posts~~

p. ~~I would like to be able to remove my items after completing a transaction~~

q. I would like to see how many people have viewed my listings **(if time allows)**

3. <u>**Communication/Misc.**</u>

As a user,

a. ~~I would like to be able to easily navigate the website~~

b. I would like to be able to utilize the MyUniMarket website across all types of devices

c. ~~I would like to avoid seeing inappropriate words/phrases on the marketplace~~

As a seller,

d. ~~I would like to be able to communicate with a potential buyer via private email~~

As a buyer,

e. I would like to be able to view seller ratings

f. I would like to be able to rate the seller by the quality of the item and transaction

g. ~~I would like to be able to communicate with a seller via private email~~

h. ~~I would like to know the location of the seller in order to find the most optimal listing~~

Non-Functional

1. ## Architecture and Performance

   As a developer,

   a. I would like my server to handle 500 simultaneous requests
   b. I would like to develop the backend API in object-oriented and open source PHP and MySQL using a modular approach to independently test each component.
   c. I would like to have a seamless frontend for a crisp and clean web application.

2. ## Security

   As a developer,

   a. I would like to include security features to prevent against popular attacks such as MySQL Injection and Distributed Denial of Service.
   b. ~~I would like to store passwords as hashes in the MySQL Database.~~
   c. ~~I would like to allow only the authorized users to view or modify their listings.~~

3. ## Utility

   As a user,

   a. I would like to have an effective and efficient user experience.
   b. ~~I would like to solely focus on selling used school products in a local domain.~~

4. ## Hosting & Development

   As a developer,

   a. I would like to use Heroku for the deployment of our web application as they have a simple cloud platform for development teams.
   b. I would like my frontend to involve HTML5, CSS3, and Javascript in unison to create the best user experience possible along with backend in PHP and MySQL to provide a high-uptime guarantee.