PearScale

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CS340 Final Project

<flip.engr.oregonstate.edu:4269>

# Introduction

PearScale is a website designed by and for members of the Pear Community. PearScale allows users to create an account to share images of pears online, and then to have them rated on a scale of 1-15 by other users. New pears can be seen on the ‘Fresh’ page, while the lucky top-rated pears can be viewed on the ‘Ripe’ page. Users may use the search bar to find a pear posted by a specific user, or with a specific title, description, or score. Users may add tags to their pears, and may also delete their own pears as well (if for some reason they decide to do that).

# Detailed Functionality & Requirements

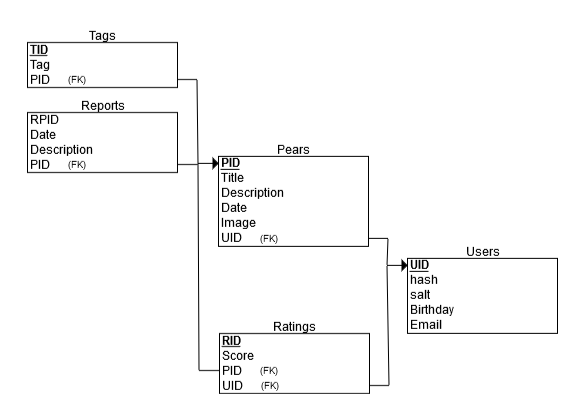
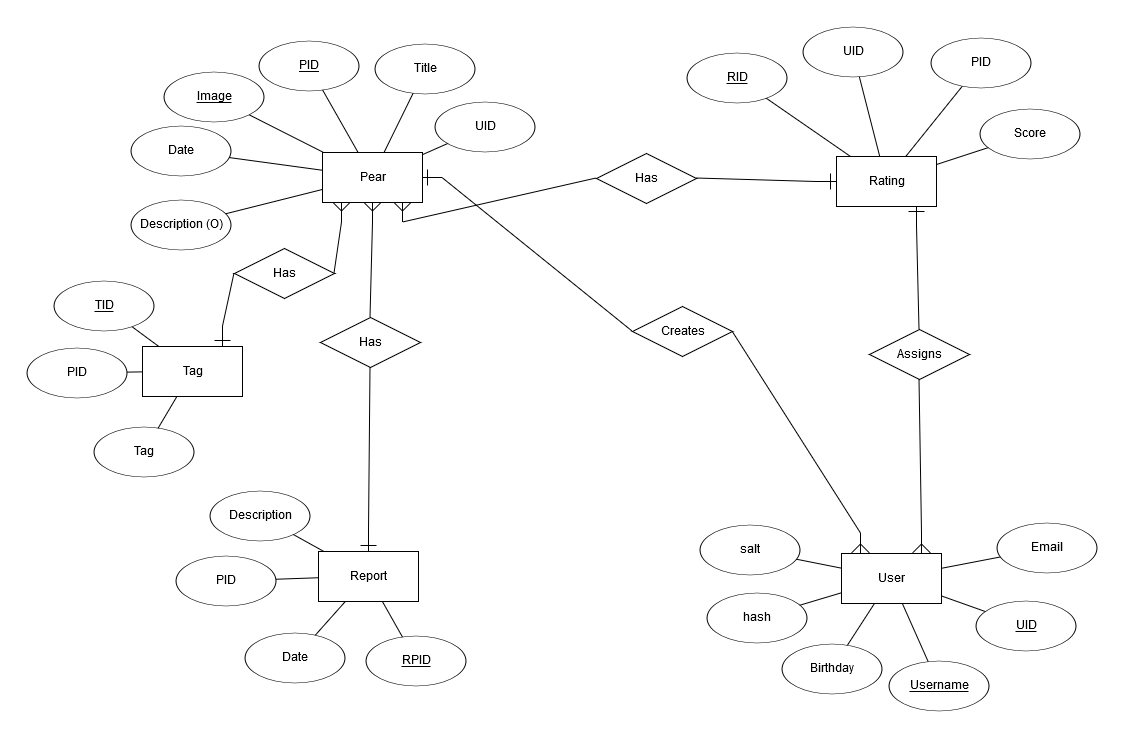
Functionality

* Any page visitor can view Fresh (newest) or Ripe (top rated) pears on the homepage
* A user may create an account
* Registered users may post a photo of a pear with a title, description, and tags
* Registered users can rate other users’ pear pics
* A user may delete a pear they have posted
* Any page visitor can submit a report on a pear if they feel like it.
* Any page visitor can search for pears by title, description, author, rating, or tags

Business rules:

* ABSOLUTELY NO NON-PEAR PHOTOS PERMITTED
* Pears are ranked on a scale of 1-15
* Only one rating per user per pear is allowed

# Database Design



**Tables**

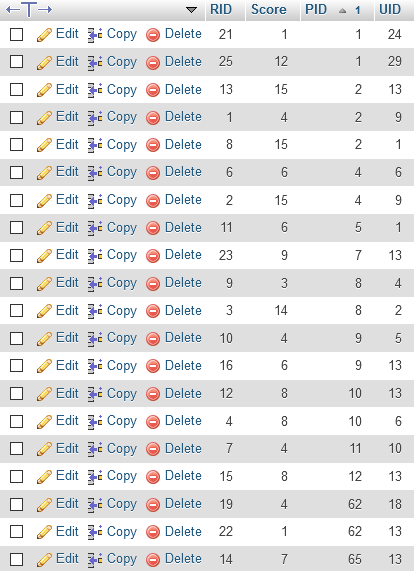
Pears



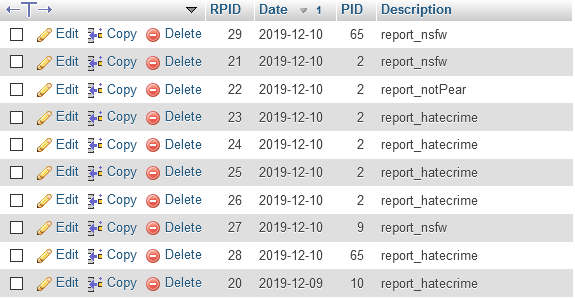
Users



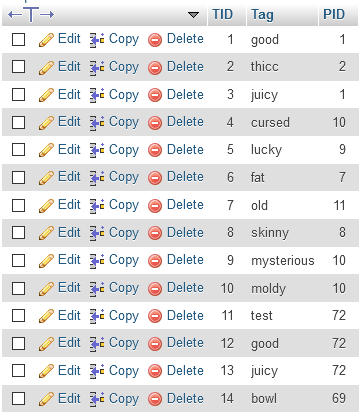
Ratings



Reports

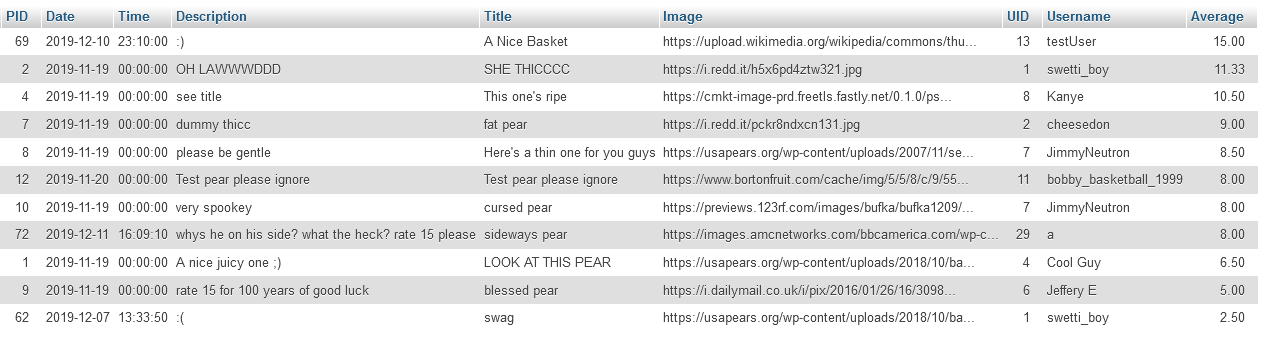


Tags



**Views**

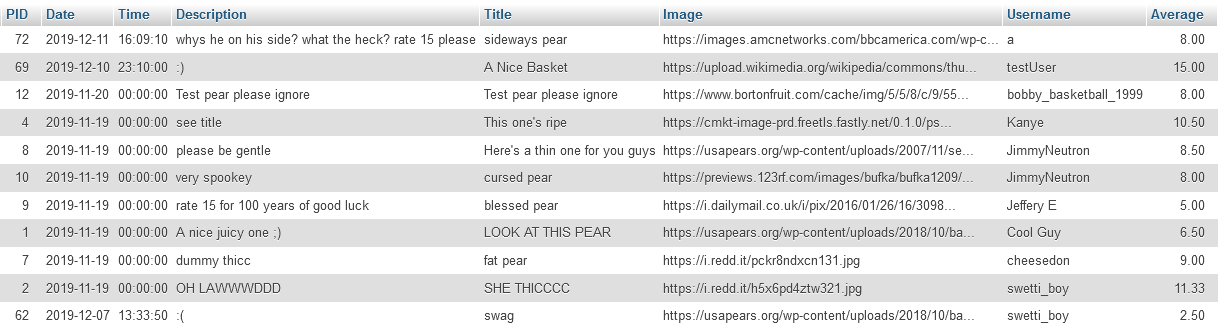
highestRatedPears



newestPears



pearsByUser



pearTags



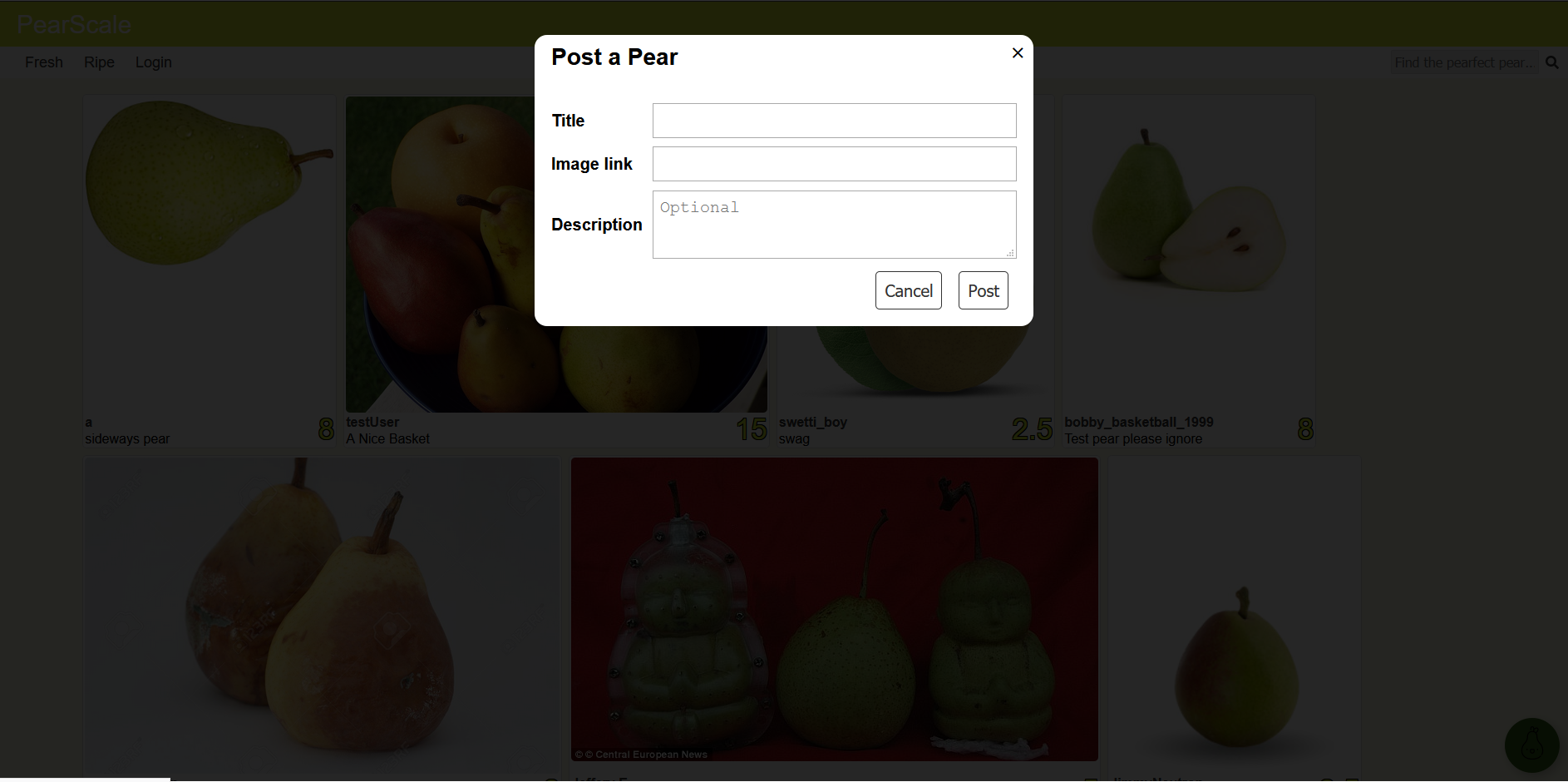
# Website Design

There are 3 main pages on PearScale: The home page, the pear page, and the user page.

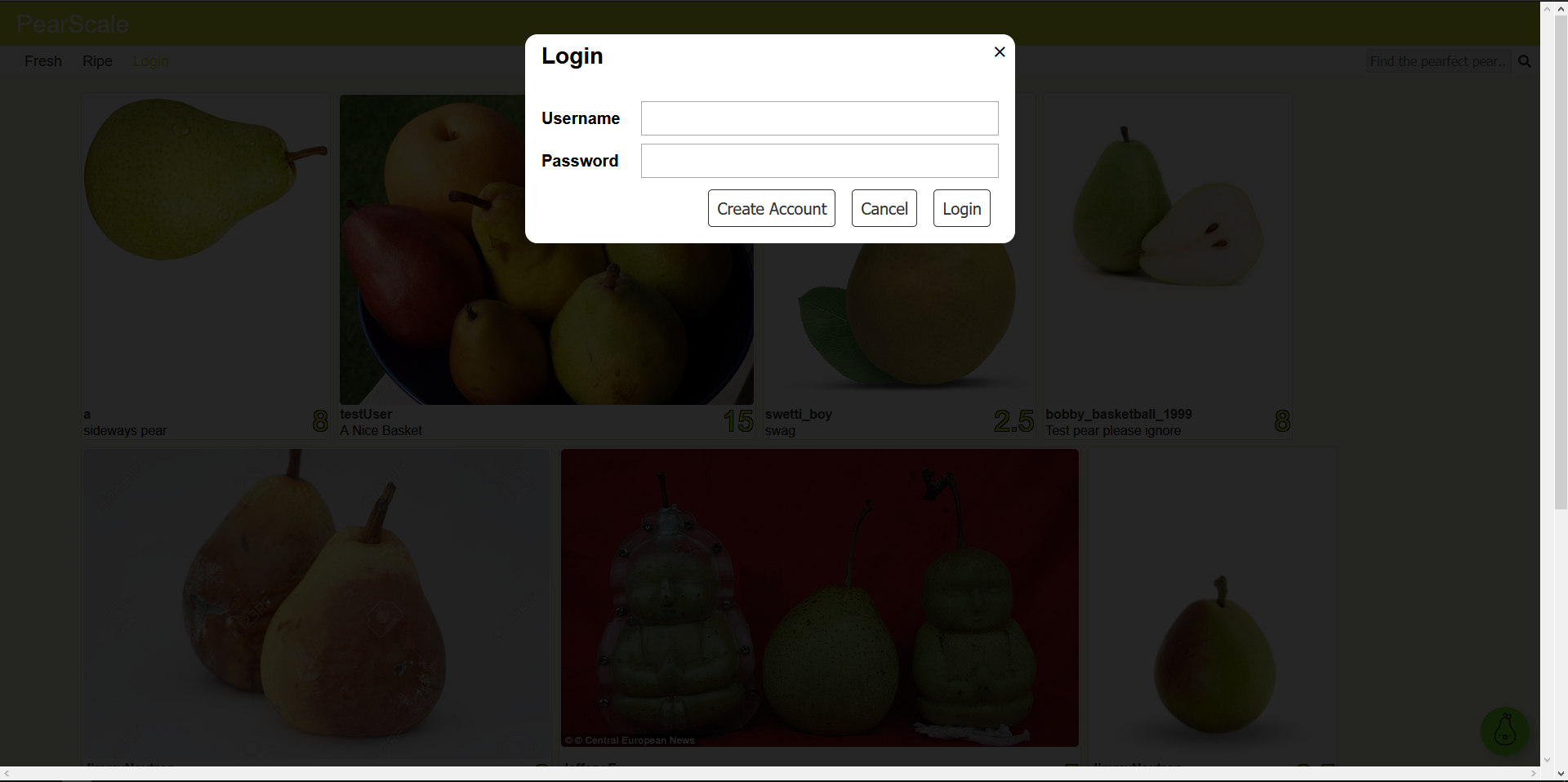
![A close up of a fruit

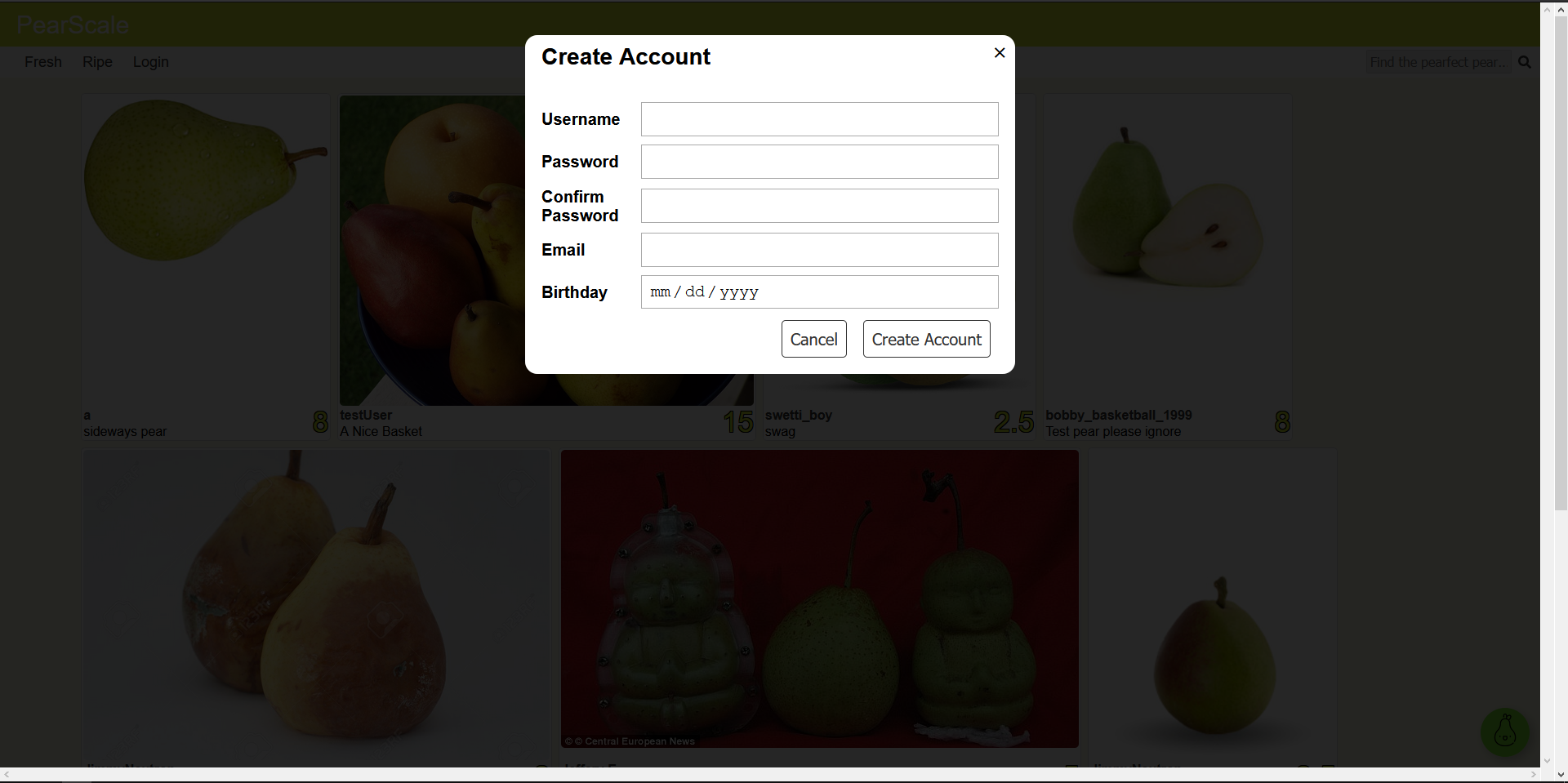
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On the home page, Fresh and Ripe pears may be viewed. By default, Fresh pears are shown. The pear posting button is visible in the bottom right corner of the screen, and it is only available on the home page. Clicking it brings up a modal prompting the user to submit a pear.



Clicking the login button prompts the user to login, and also gives them an option to create an account, which brings up a second modal.





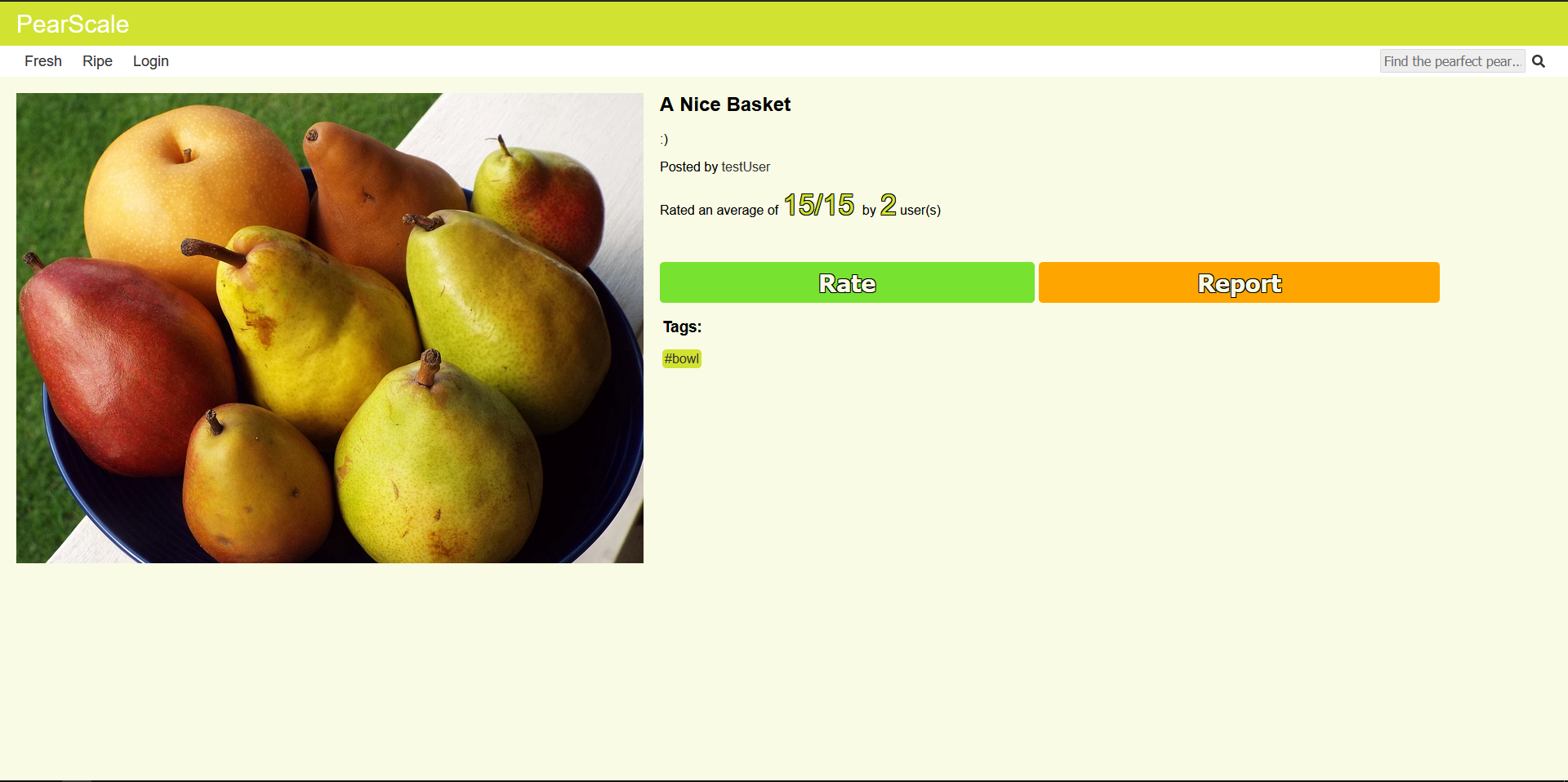
Creating an account automatically logs the user in.



When a user is logged in, the login button is replaced by the username, and an option to log out is added.

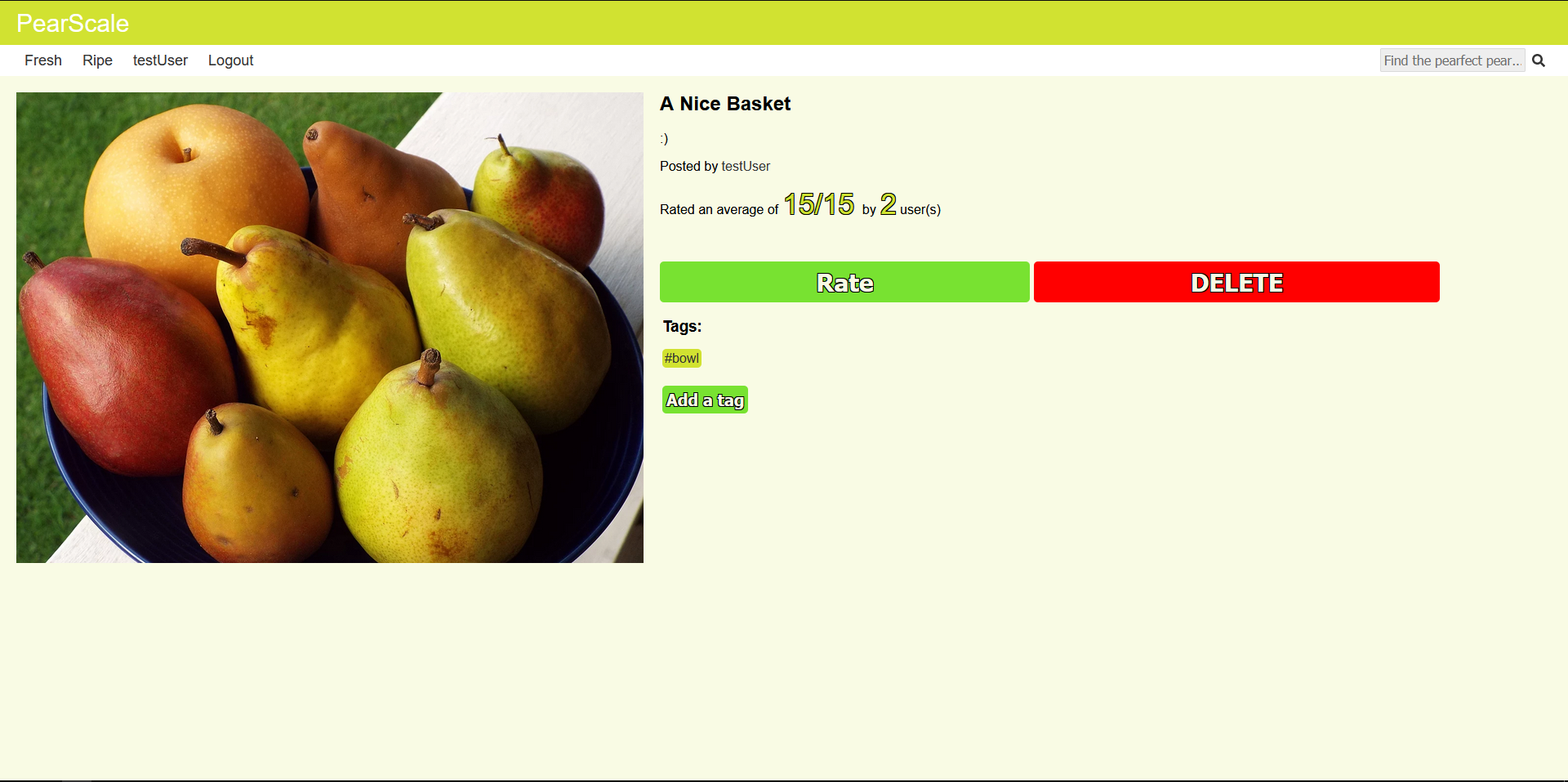
Clicking any pear brings the user to the pear page.

Pear page:



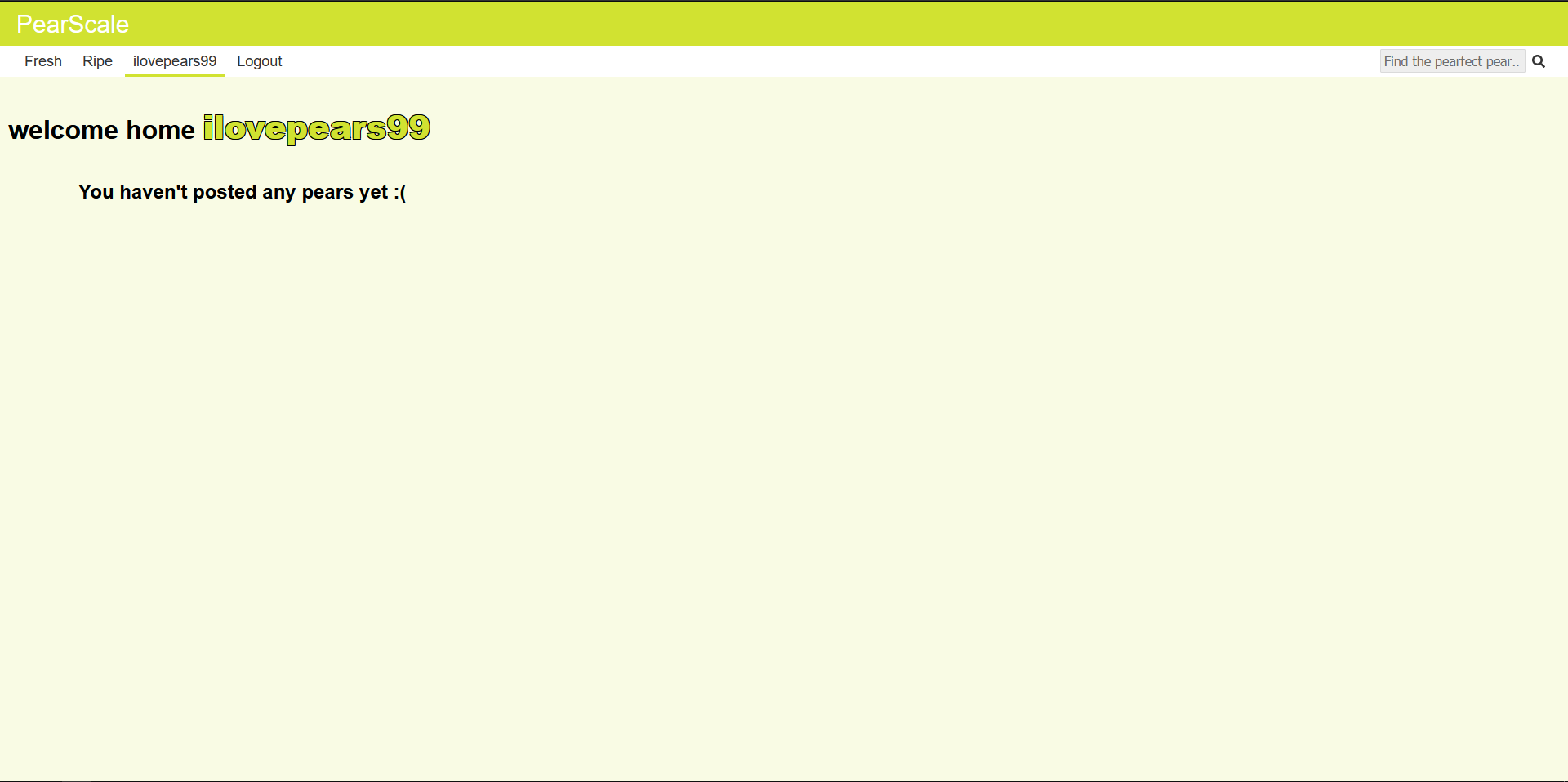
Here the title and description can be viewed, as well as the number of users who have rated the pear. The user may rate or report the pear, both of which have their own modals. Tags are visible.

If the pear was posted by the user, the Report button is replaced with a delete button. Owners of a pear may also add tags.

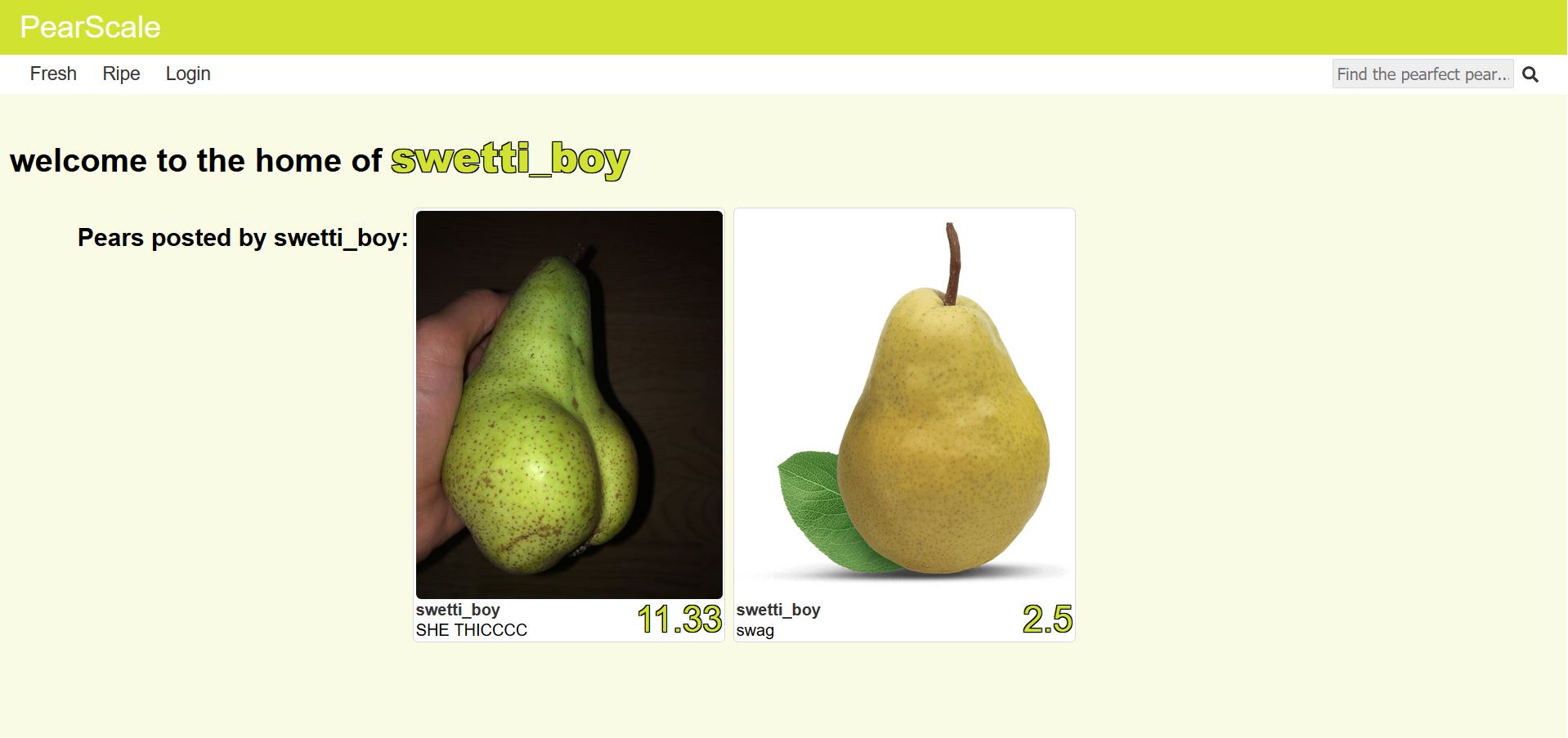


Clicking on a username brings the user to that user’s page.

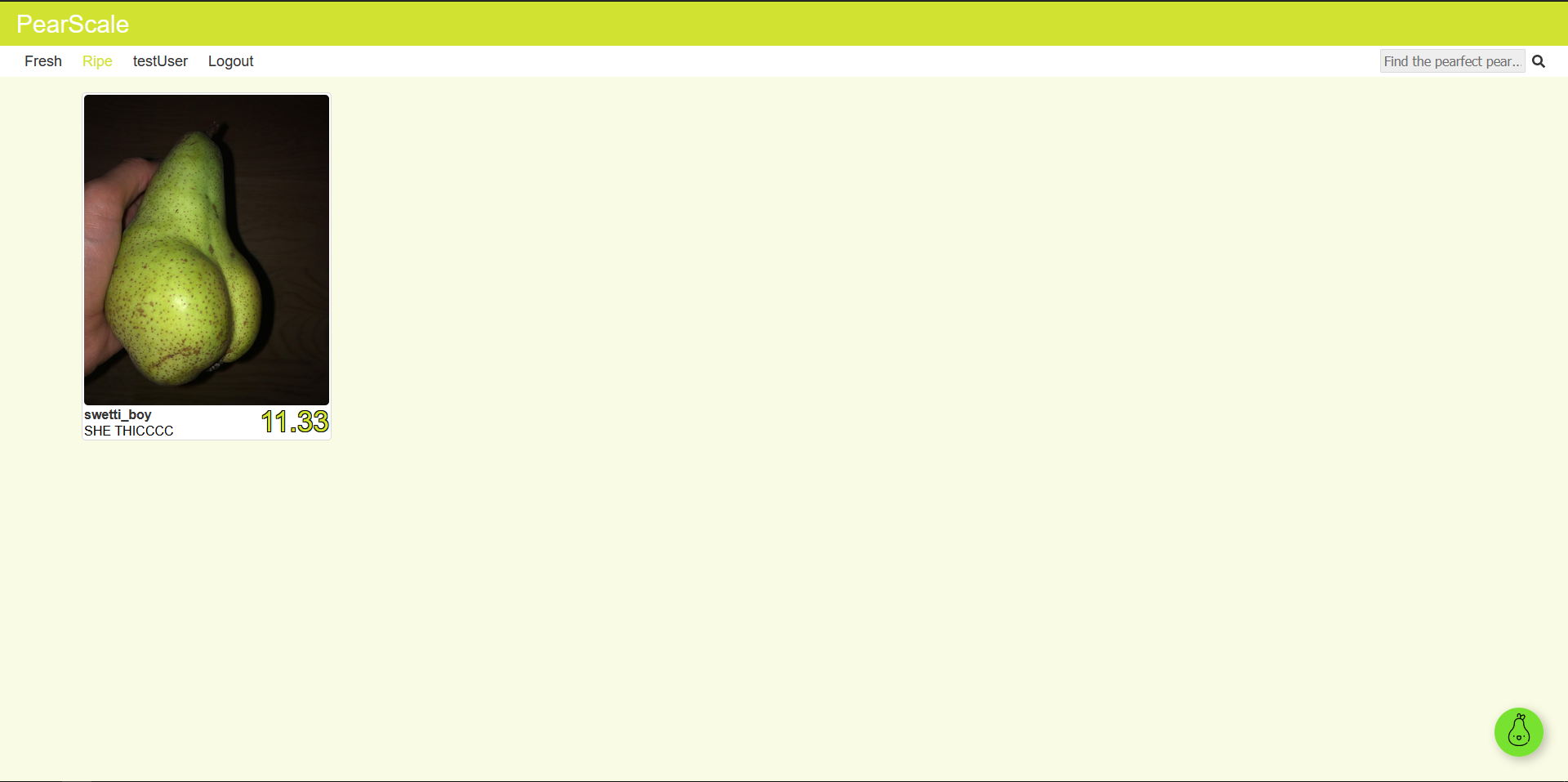
User page:



The user’s personal page looks different from other user’s pages.



Clicking on a tag or searching for anything brings the user to the search page where the results are shown. Here is the result of clicking on the #THICC tag.



# Implementation

We used 3 main programs to run the website.

DAO (Data Access Object)

* + Acts as interface between database and server
  + Handles all SQL queries to database and returns queried data
  + Examples:
    - getPearById() executes the query `SELECT \* FROM Pears WHERE PID = ?`
    - ratePear() executes the query `SELECT \* FROM Ratings WHERE (PID = ? AND UID = ?)` to first check if the user has rated the pear yet. If they haven’t, the query `INSERT INTO Ratings (Score, PID, UID) VALUES (?)` is executed. Otherwise if the user has rated the pear before, 'UPDATE Ratings SET Score = ? WHERE (PID = ? AND UID = ?)' is executed.

Server

* + Node.js Express routing
  + Express sessions for session management
  + Handles user authentication & password hashing
  + Calls DAO functions when endpoint is requested by client

Client

* + Pages templated by Handlebars
  + Queries server endpoints
  + Handles/displays responses from server

# Evaluation

To test PearScale, each feature was gone through one by one. Each possible situation was tested for each feature (logged in, logged out, leaving fields blank, overflowing fields, refreshing the page, etc), and when an error was found we would go back in and fix it. This was done during the development phase as each feature was implemented, and if a new feature was added that interacted with an old one, we would go back and confirm that everything still worked as expected.

For example, the first major feature we implemented was the ability to post pears, which we added before the ability to create an account and log in. After we implemented the ability to log in, we had to go back through and make sure there was no way to post a pear without already being logged in.

After showing several of our friends and peers the site, we have determined that its usability is very high. No one had any trouble figuring out how to post a pear, and the site navigation is very intuitive. If they were asked to navigate anywhere on the site, they had no trouble getting there within a couple clicks.

# Future work + Lessons learned

For the most part all the backend work is complete. Almost everything we want to develop further is on the frontend. Other than styling, some features we would like to add include:

* + More detailed user pages
    - Include more information about the user. How many times have they rated a pear? What is their average rating on their own posts? How many times have their posts been reported?
  + More detailed pear pages
  + Rate pears from the home page
  + View tags from the home page
  + Comments
  + More robust search function

# Appendix – Team Report

Zach Kauffman: UI/UX, frontend JS, SQL query formulation

David Kalcic: DAO functions, server code, SQL query formulation