

Review Restaurants

- Alex Hawryschuk, 2021-04-02

Introduction

The purpose of the application is to allow restaurateurs to receive and respond to feedback (for their restaurants), and allow restaurant patrons to post reviews on restaurants, and view owner responses.

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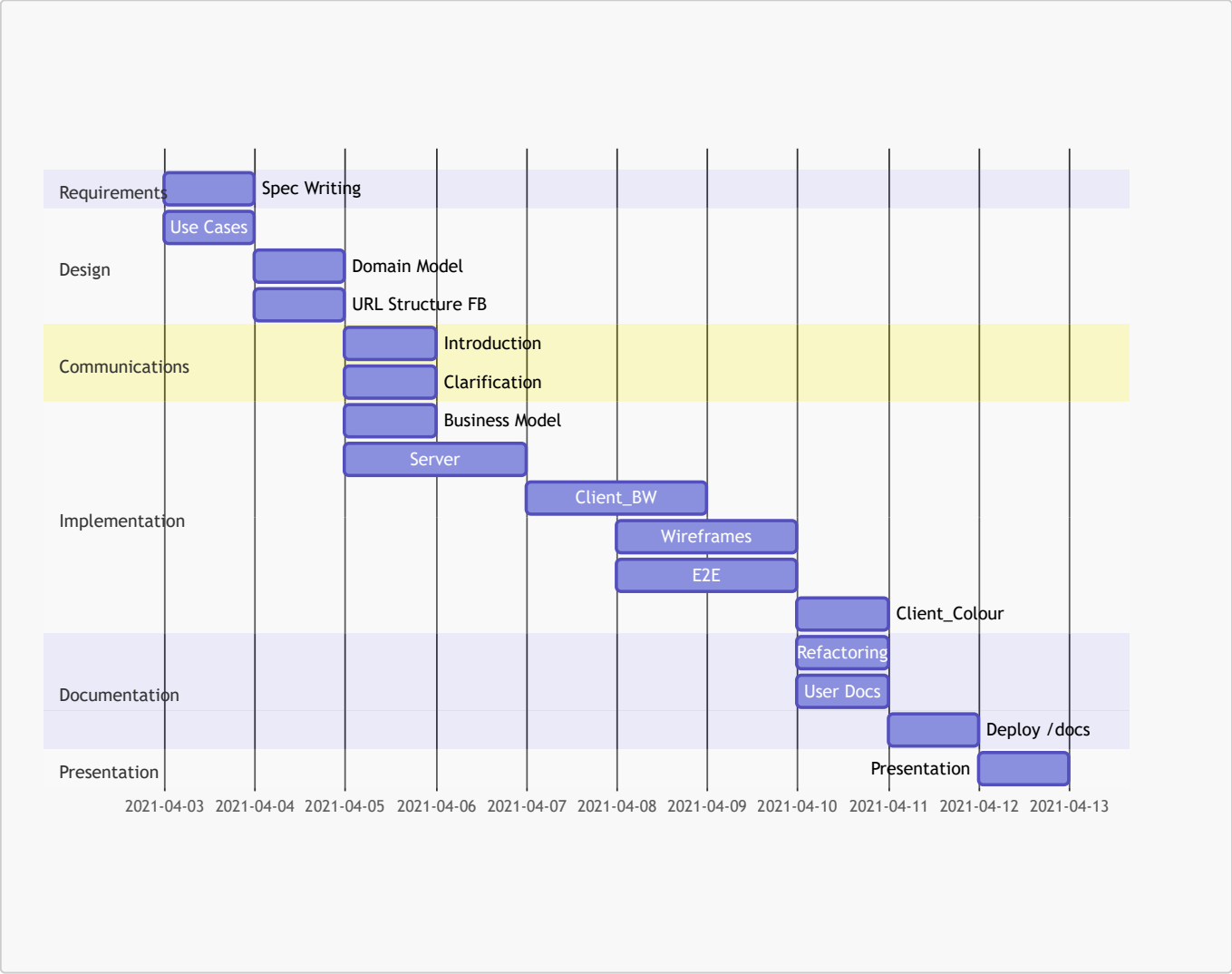
Functional Requirements

- Sign Up: First time visitors can sign up and immediately login
- Log In
- User role based access
 - Reviewer:
 - View all restaurants
 - Review a restaurant
 - Restaurateur:
 - Add restaurant
 - View his/her restaurants
 - View reviews given by Reviewers
 - Respond to the reviews
 - and one time one
 - Admin:
 - Edit and Delete all Users, Restaurants, Reviews, and Responses
- Restaurateurs will see a list of reviews pending their response
- All Restaurants will display:
 - sorted by rating
 - a filtering mechanism for rating
- A Restaurant will display:
 - average rating
 - best review (based on rating)
 - worst review
 - reviews ordered by most recent first
- A Review will display:
 - five-star rating
 - date visited
 - comment
 - owner's response

Technical Requirements

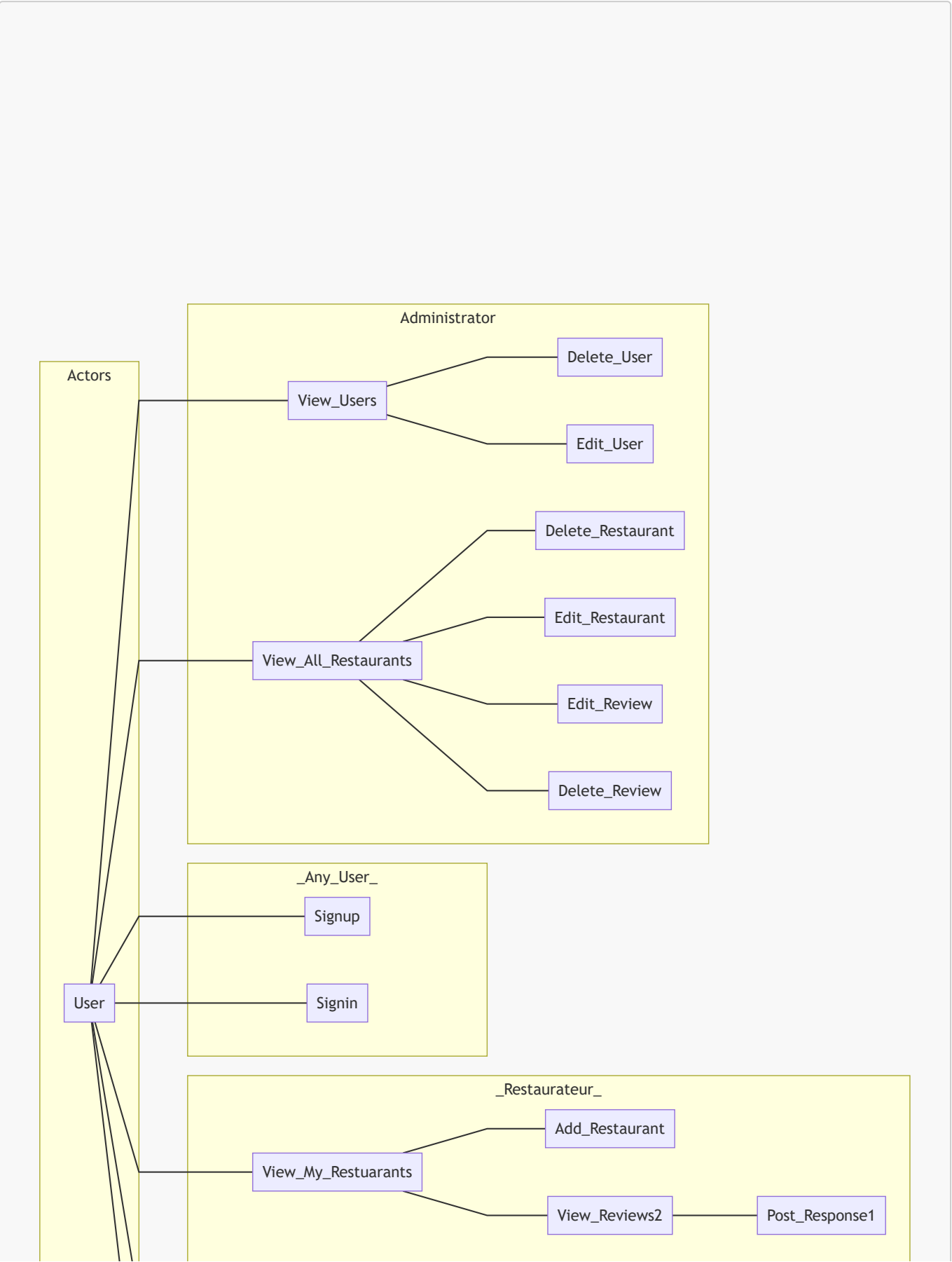
- A REST API that can perform all of the features above
- The REST API will authenticate the user and authorize the access

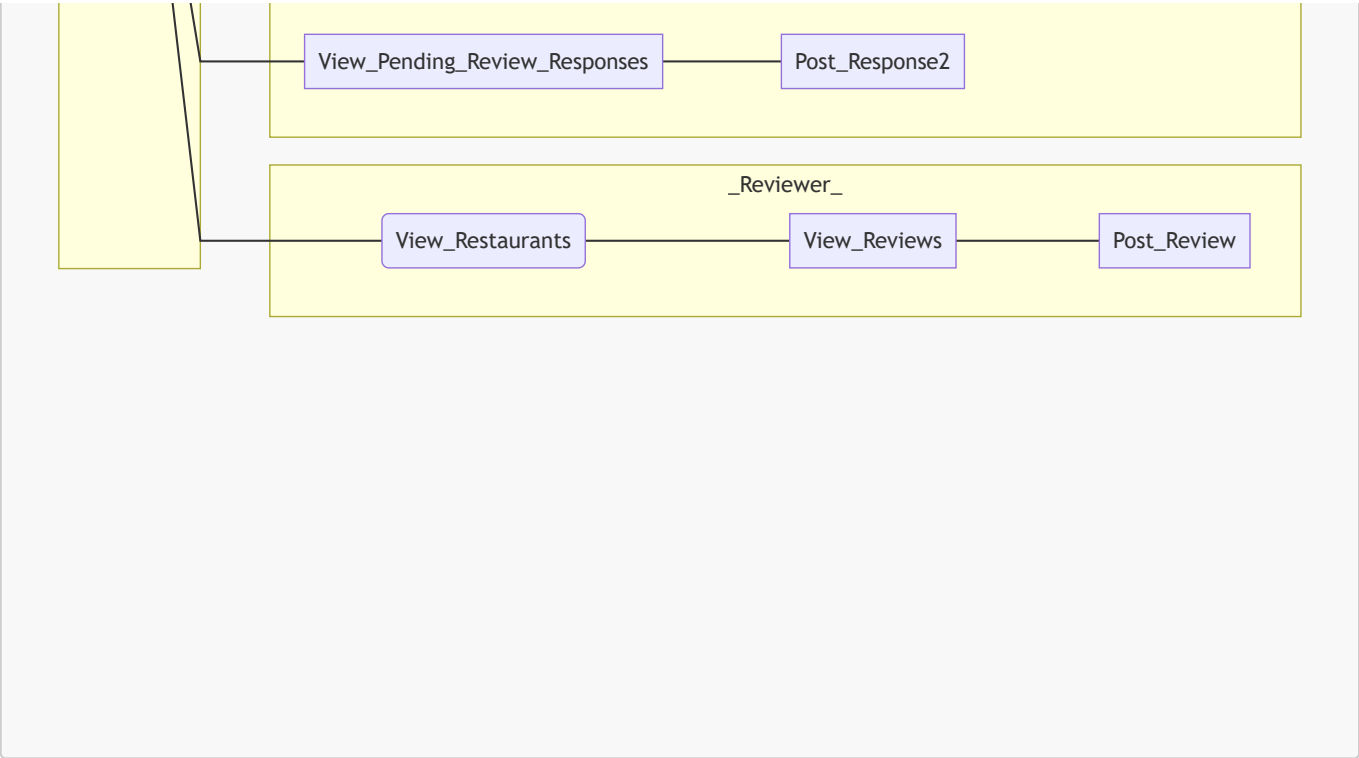
Development Plan



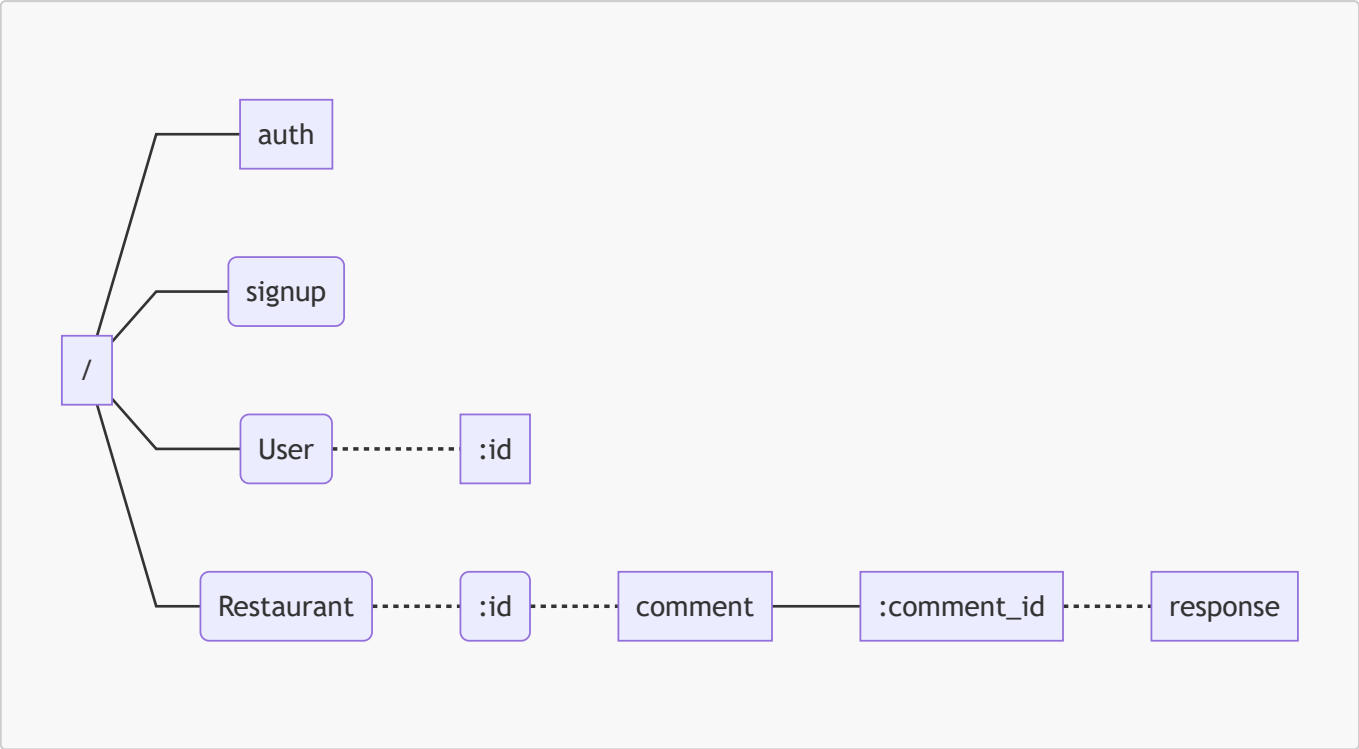
Design

Use Cases

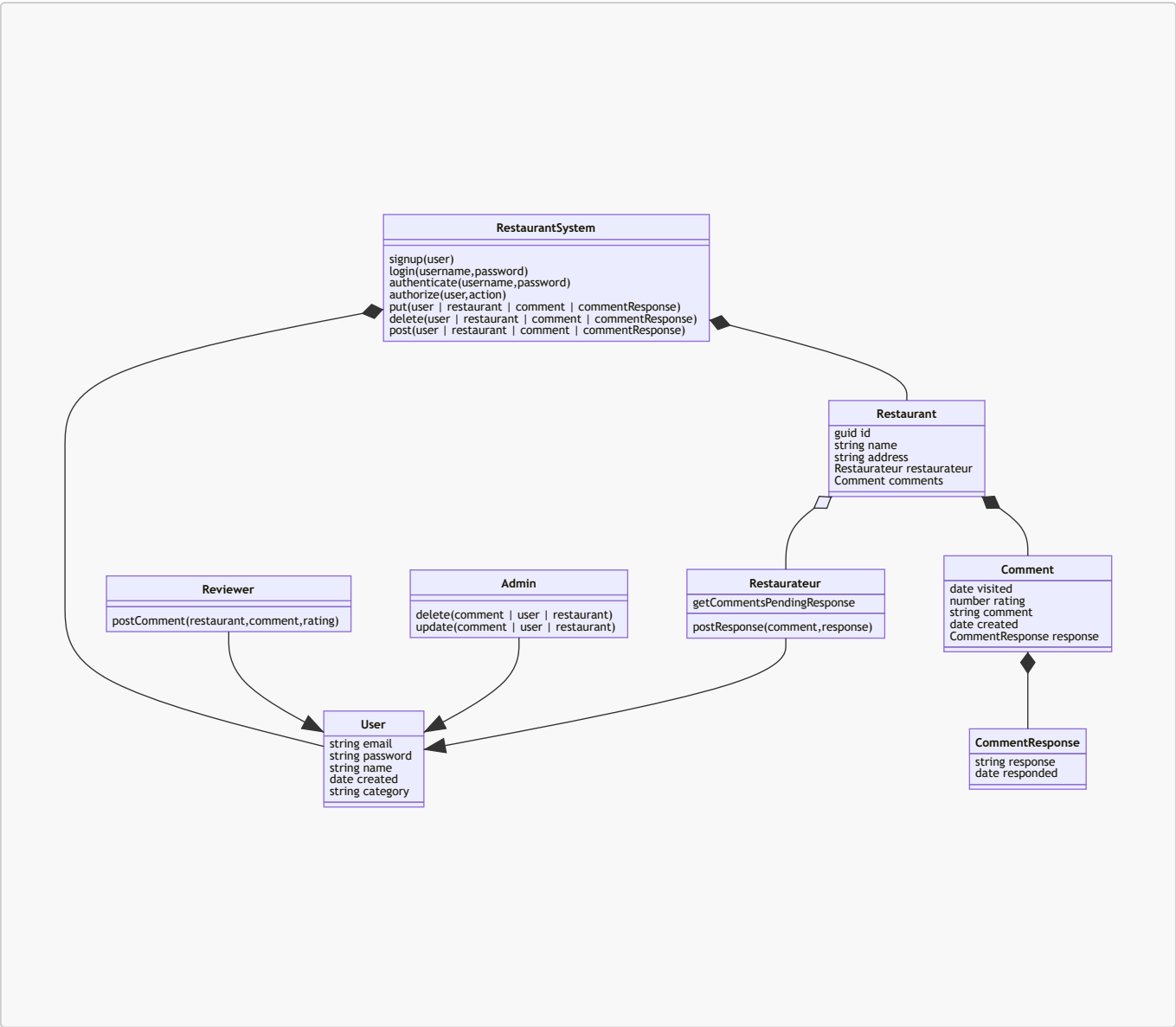




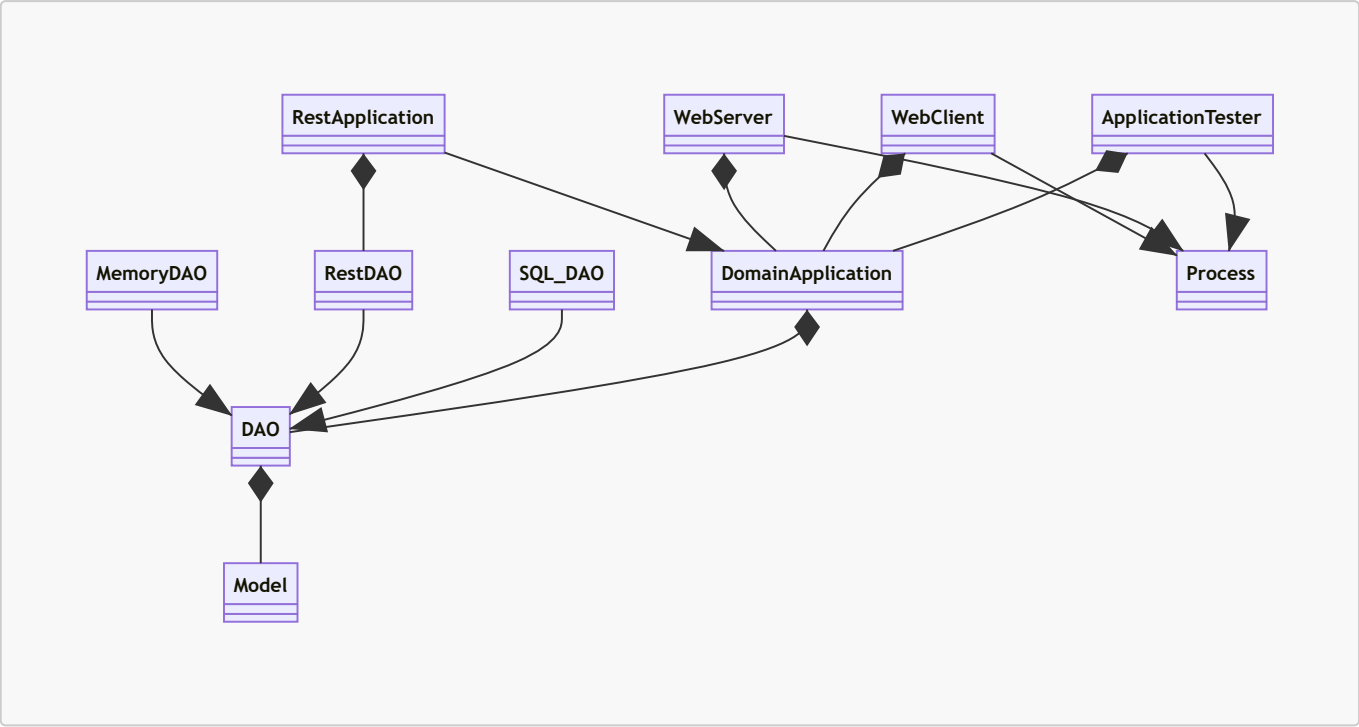
REST API



Business Model

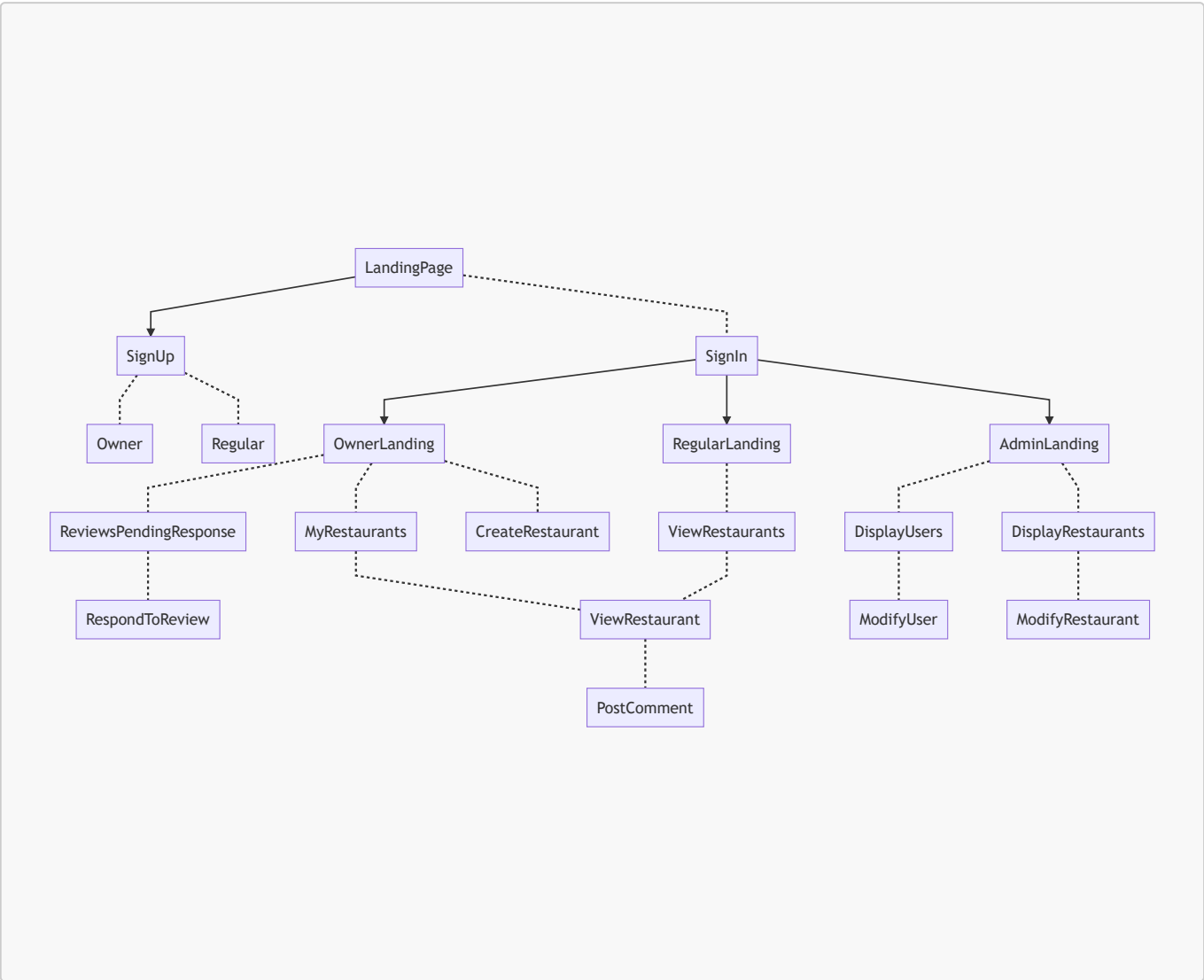


Logical Design

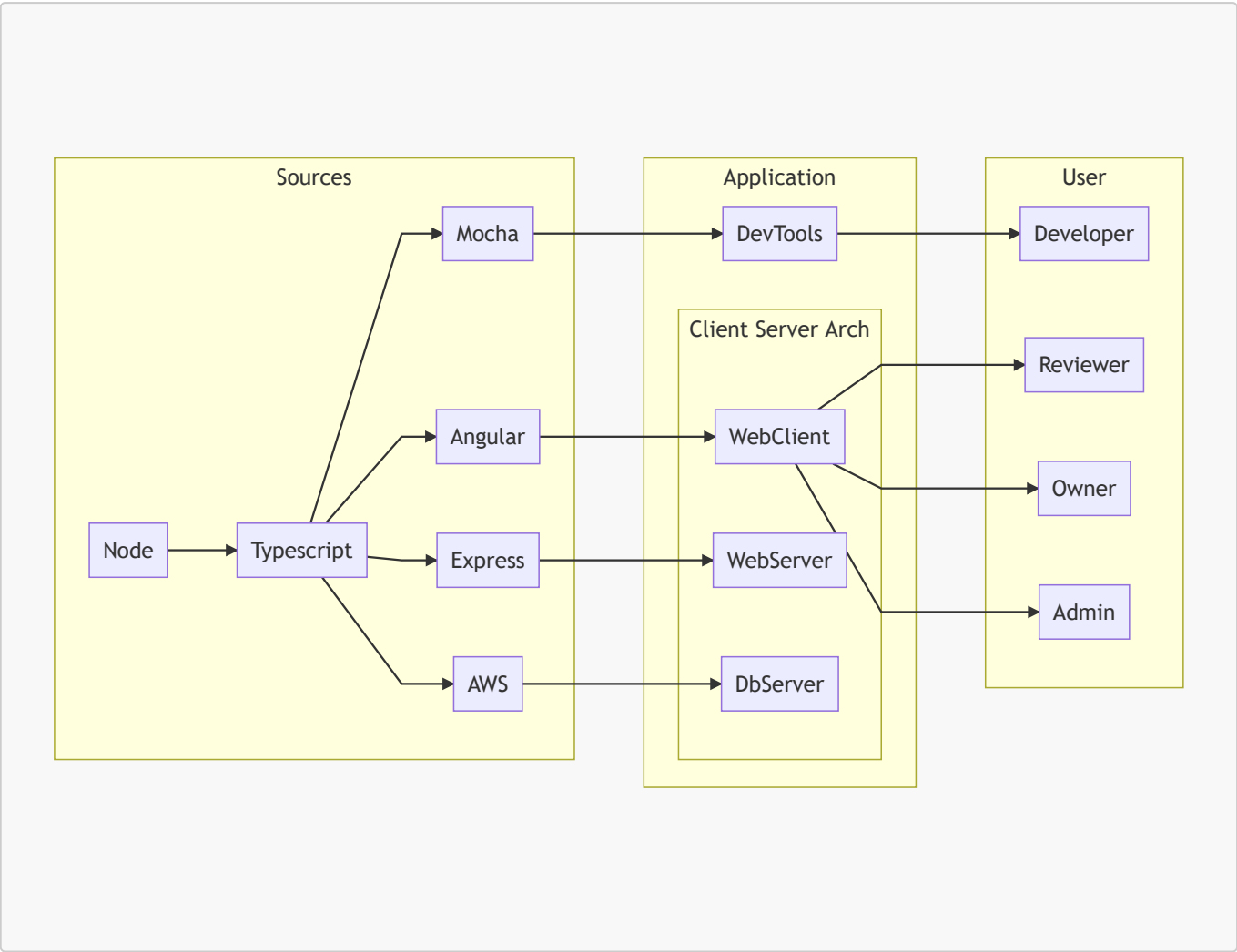


UI Design

UI Components

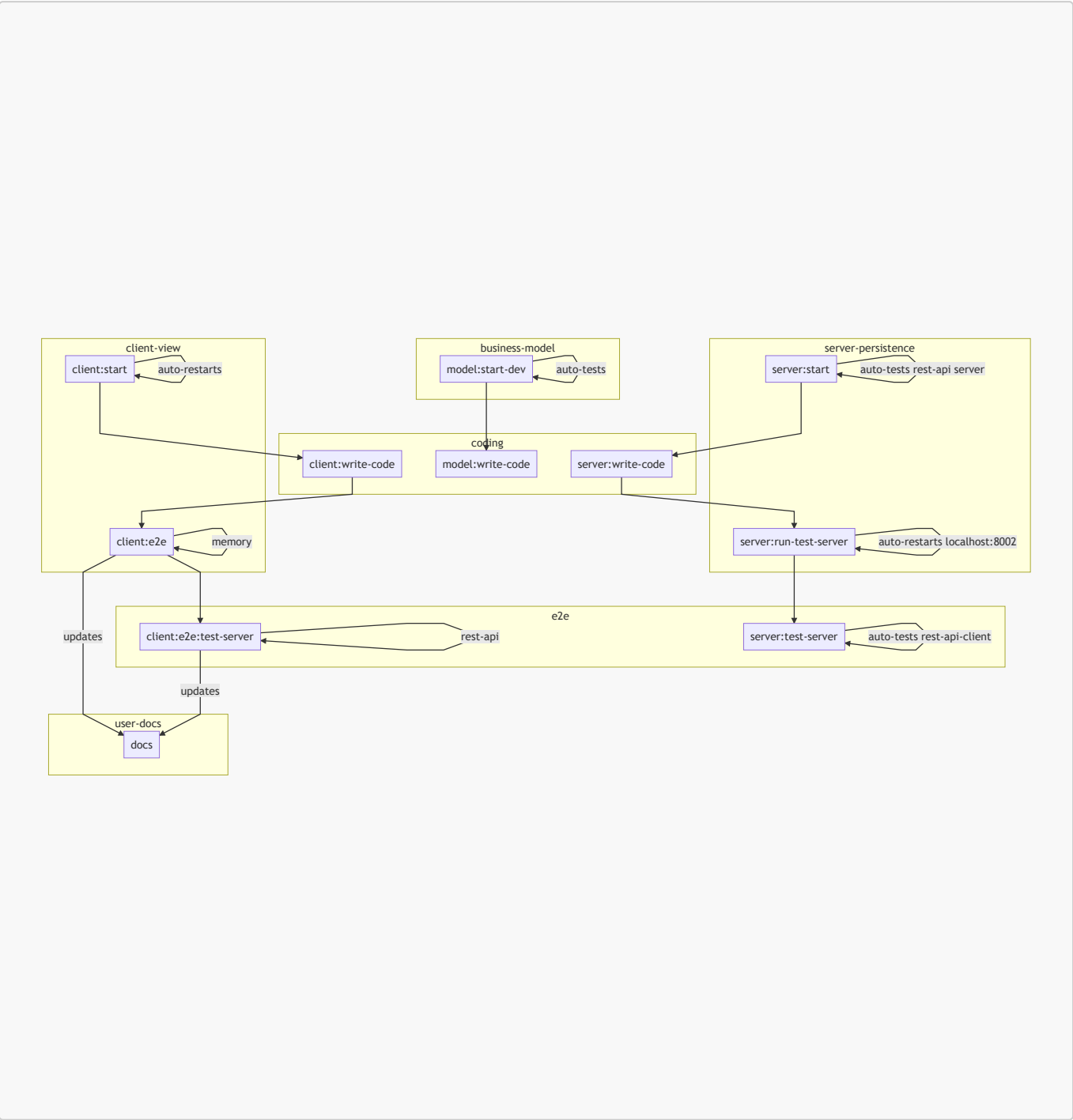


Physical Design



DevOps

Development Processes



Questions for Buyer

- Would you like to have graphic design work done?
- When the admin deletes a regular user, shall the users reviews be deleted?
- When the admin deletes a restaurateur user, shall the users restaurants (and all their comments) be deleted?
- As a regular user, shall I be able to make multiple reviews for the same restaurant?
- Would you like to see a feature : my reviews -- the regular user can see a list of reviews they've given
- As an owner, would you like to acknowledge reviews without responding (taking them off the pending responses list)?
- What hosting provider would you like to integrate this into?
 - This could lead to a DevOps solution with CI/CD

Suggested Improvements

- Process/Backend Improvements
 - Linting in the development processes
 - Semantic Release in the CI : Update the changelog automatically
 - Choosing a hosting provider, and a database provider
 - IE: AWS & RDBMS/DynamoDB
 - IE: Docker with Express/Mongo
 - IE: Server Host with Mysql
 - repository for npm packages
 - repository for build artifacts
- Application Features
 - Model validations
 - Email verification
 - Reset password
 - Security
- Aesthetic Iterative Updates
- Further error handling in the UI
 - Present backend errors
 - Present backend delays
 - Present model invalidations
 - This has been delayed until the UI design is iterated up

TODO

- Consult with buyer to negotiate further milestones and agile iterations
- Loading/Progress spinners...

Edge Case Tests

- admin cannot delete self account
- non admins can not delete or edit users, restaurants, comments, responses
- admin edit user with no name
- sign up with bad email
- sign up with no password
- user posts review from future
- create restaurant with no name
- send an expired token
- server is down
- server responds slowly

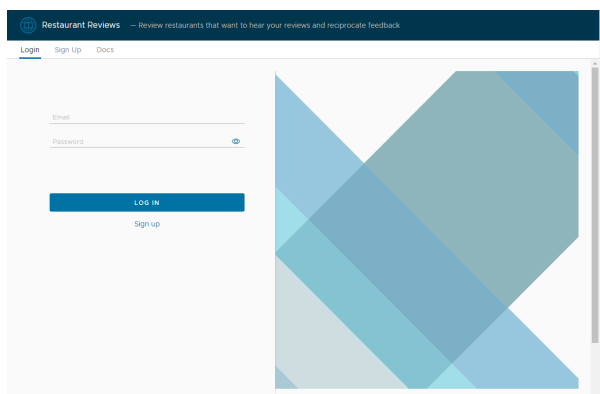
User Documentation

- visual walk-through of all the features, and their steps

View Landing Page :: Not Signed In

As a user not logged in, they need to see the landing page with high-level details about the project (name,description)

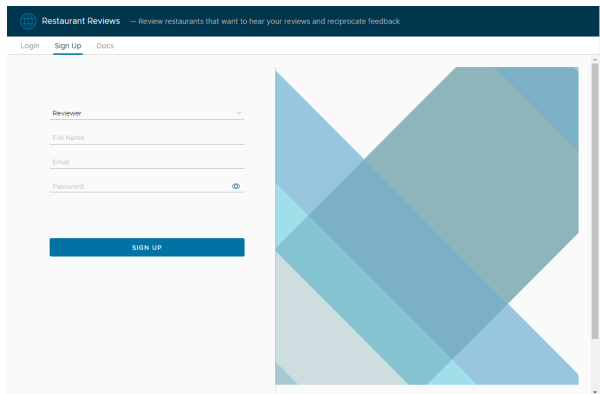
Open the website - We are not logged in, and are given the login form



View Sign Up Page

Starting from the "Landing" page, click on the "Sign Up" menu link

From the landing page, click on the sign up button

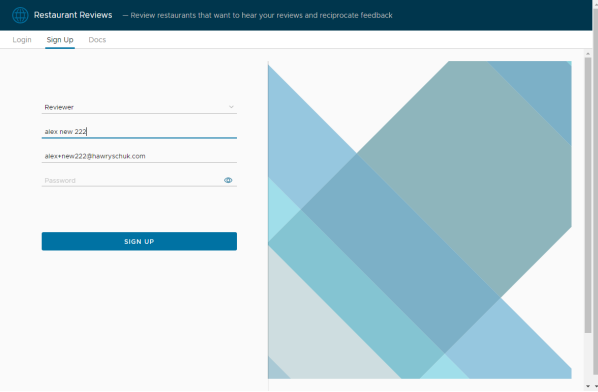
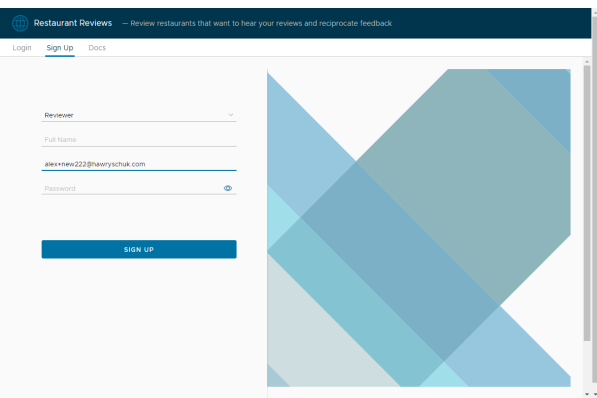


Sign Up as a Reviewer

As a user not logged in, there shall be functionality to sign up as a reviewer

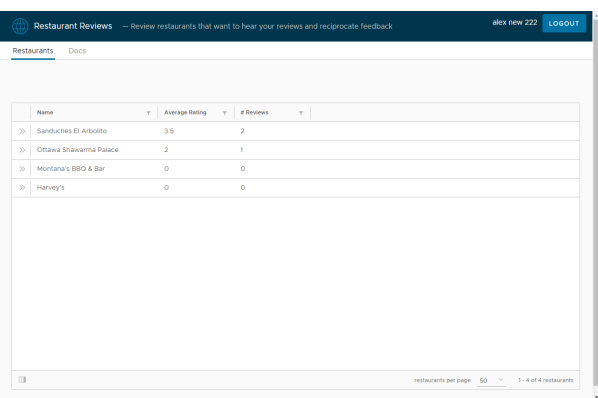
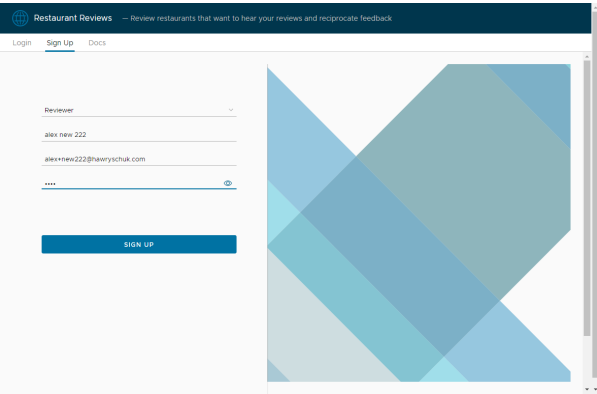
Starting from the "Sign Up" page, fill in your email,

...your name,



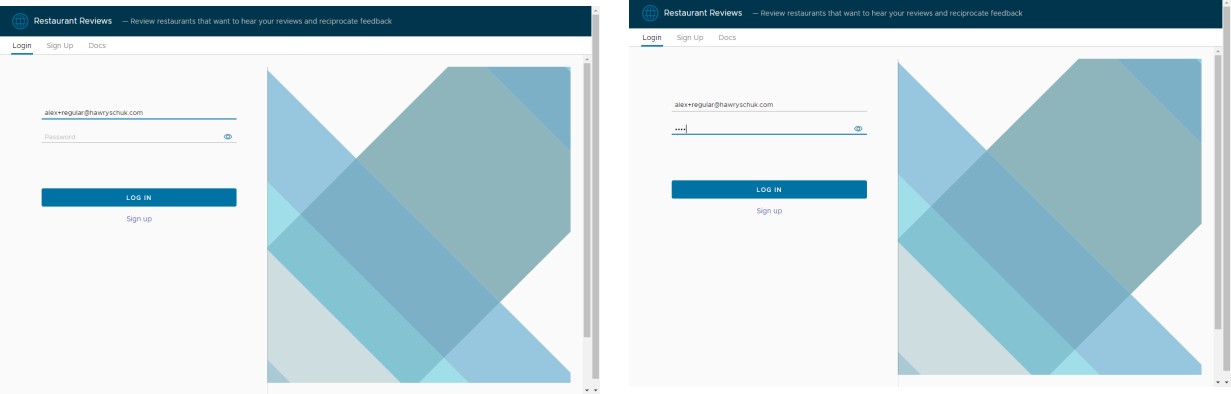
...and password.

To finish, clicking on "Sign Up" will have you signed up, and signed in.

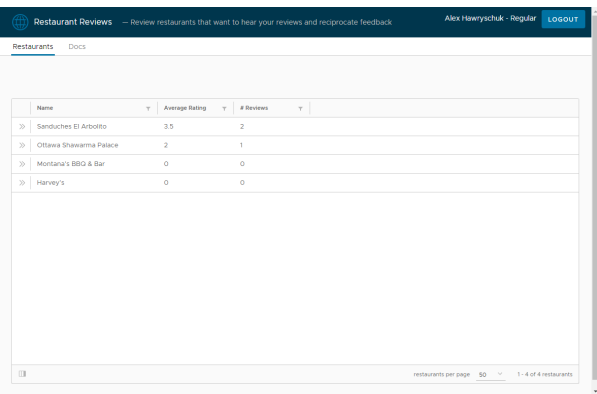


Log In as a Reviewer

Starting from the "Log In" page, fill in your email address...your password,

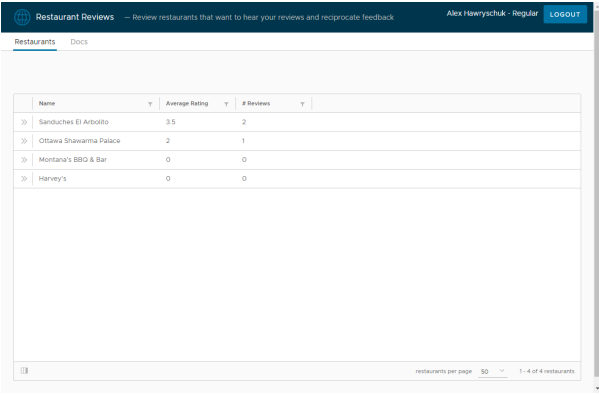


...and after clicking on the "Login" button, you will be logged into the home page



View restaurants

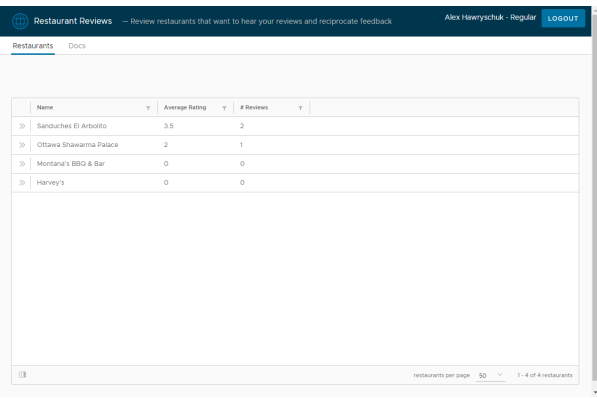
As a signed in regular user, I will see the list of restaurants, ordered by rating



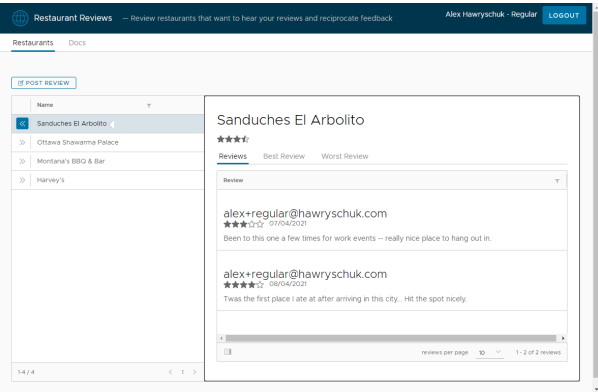
View restaurant details

The restaurant details includes the name, average rating, worst review, best review, and the recent comments, and the ability to post a message

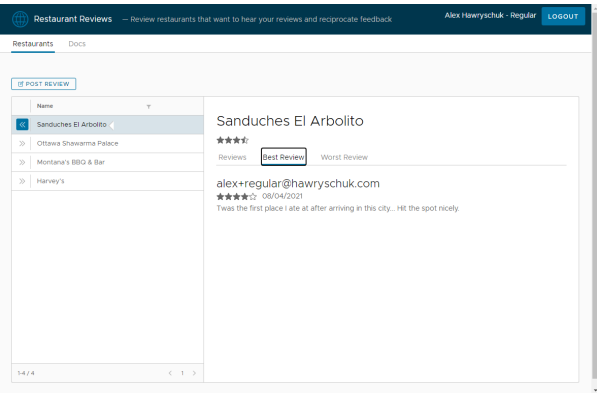
Starting from the "Restaurants" page...



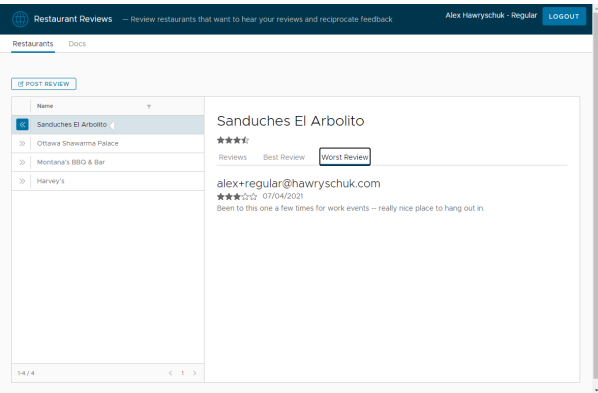
...After you click on the expand-arrow on the left side of the restaurant row



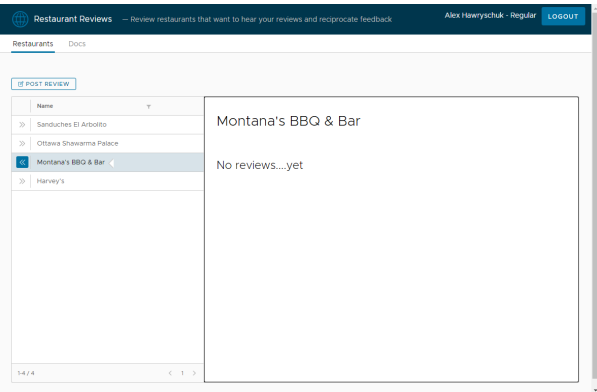
To see the best review: click on the "Best Review" tab



To see the worst review: click on the "Worst Review" tab



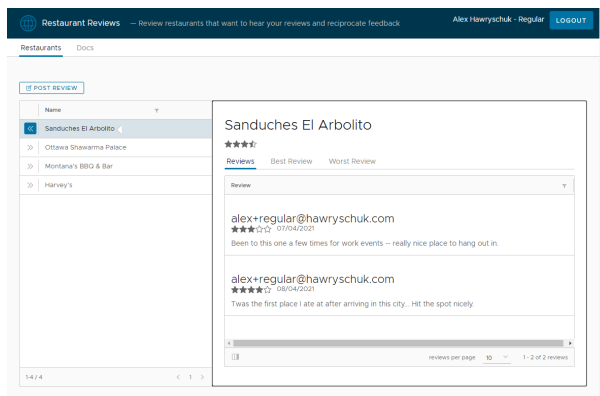
Note: When no reviews have been made, you may see the indication



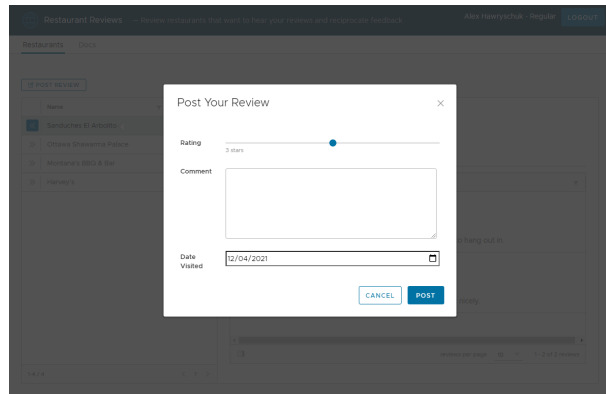
Post a review

As a regular user, you can post a review of a restaurant

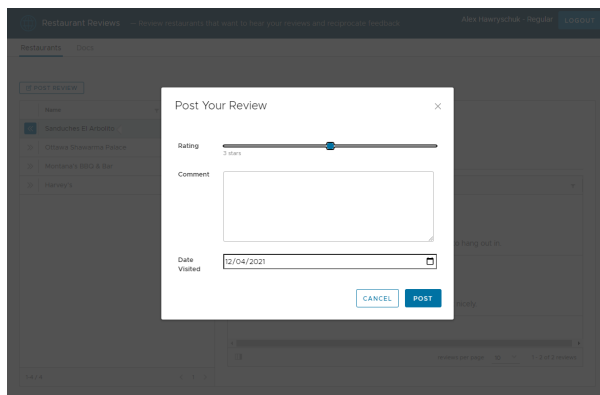
Starting from the "Restaurant Details View" screen...



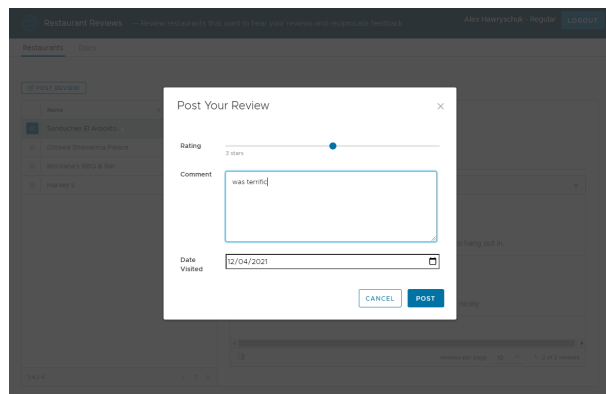
...Click on the "post review" button,



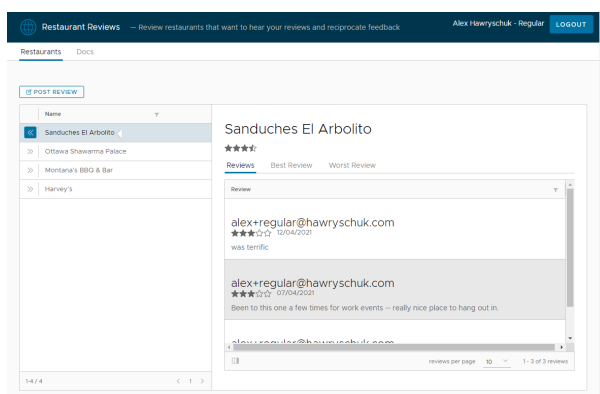
...and then fill in the form, beginning with your details about the "date visited" and your "rating",



...type in your comment,



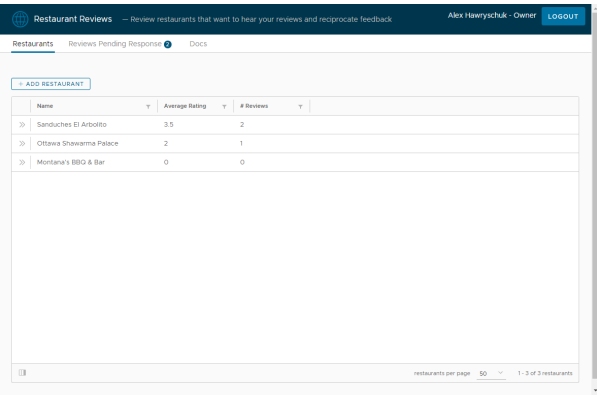
...and finally after clicking on the "Post" button, your review will have been added.



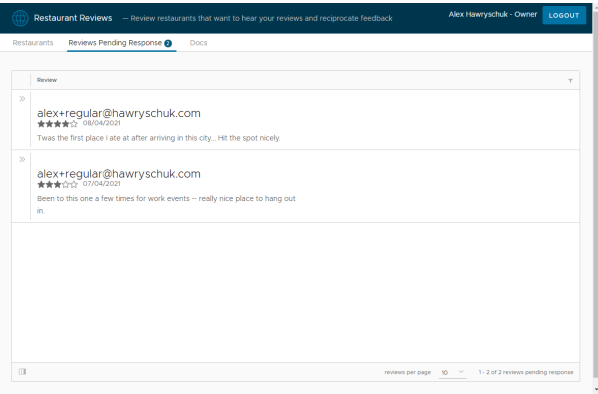
Respond to a review

As a restaurateur user, I am interested in hearing the reviews of others and wish to communicate a response

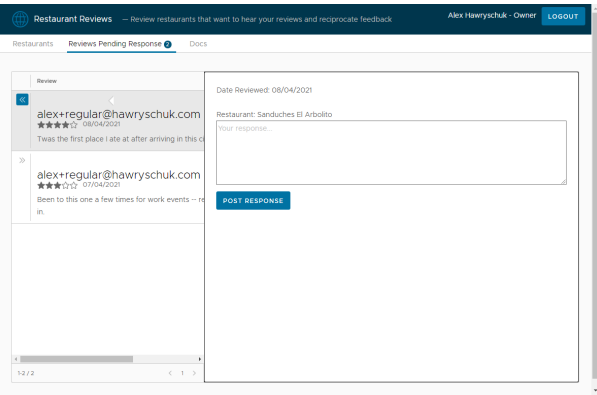
Starting from the home page,



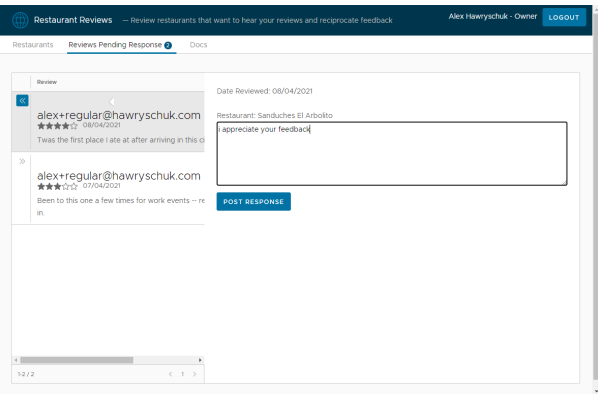
...click on the "Reviews Pending Response" link in the upper navigation menu,



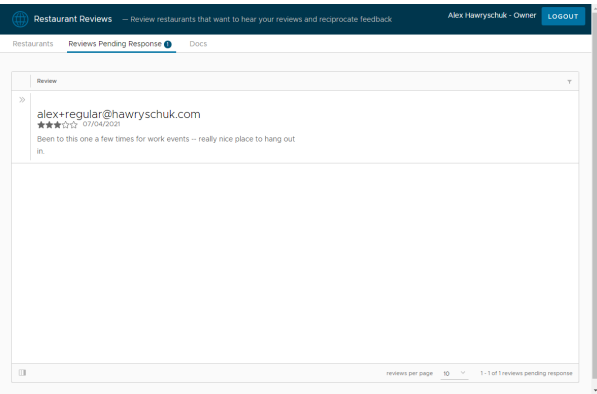
...click on the details button on the left side of the row of the review to respond to,



...type in your response,



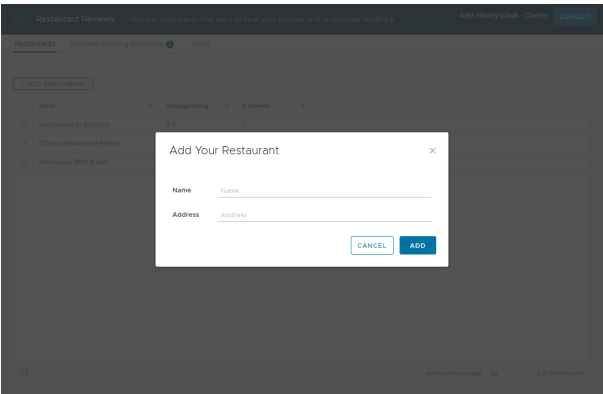
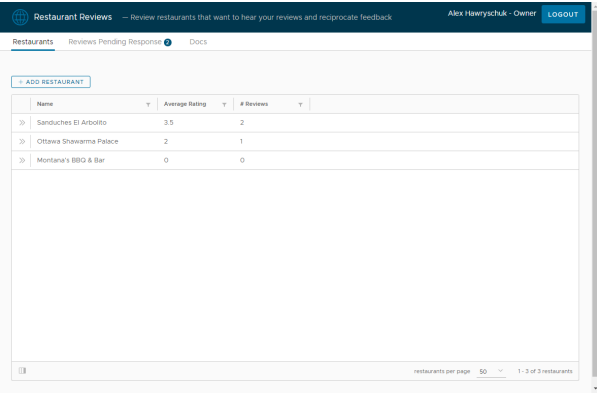
...and finally, click on the "Post Response" button.



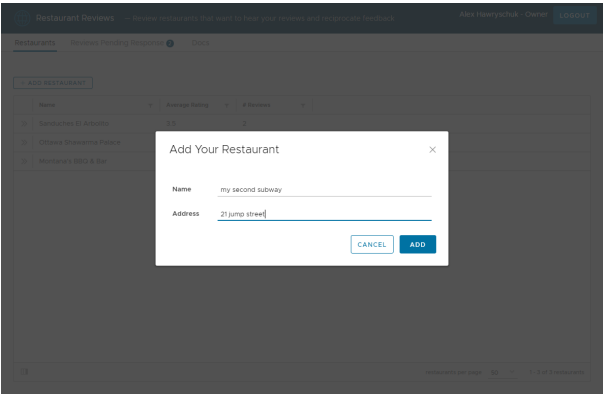
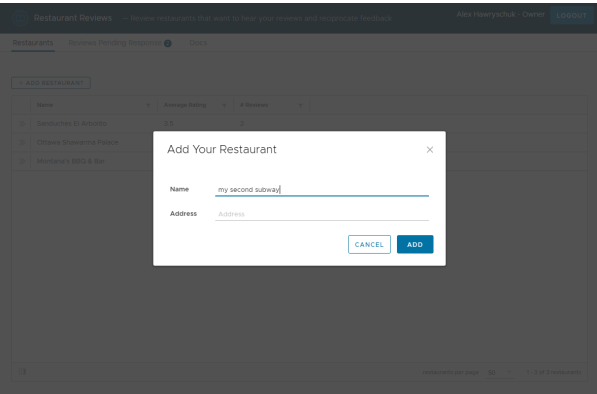
Create a restaurant

As a restaurateur user, I can create a restaurant (of mine) for people to review

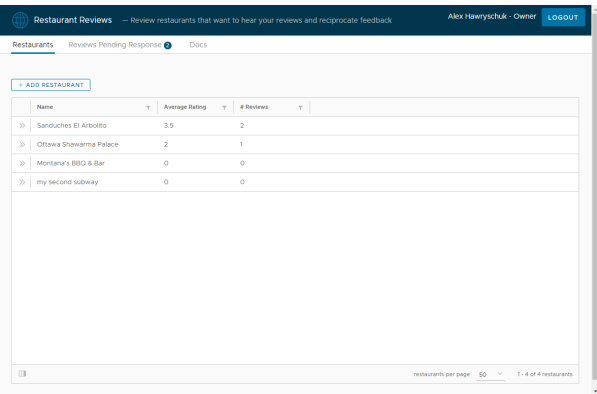
Starting from the home page for Restaurateurs, ...click on the "create restaurant" button to see a modal form to add your restaurant.



After filling in the restaurants name, ...and address,



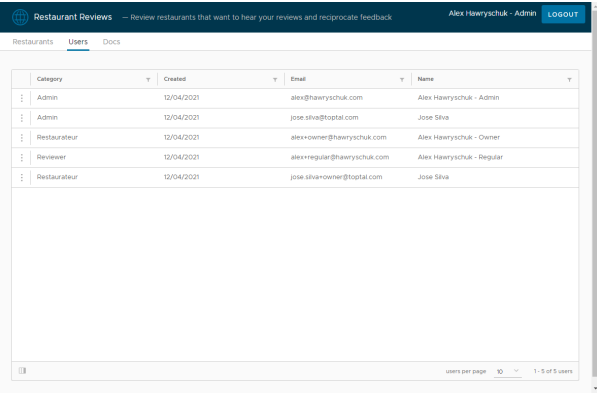
...and finally you may finish by clicking on the "Post" button.



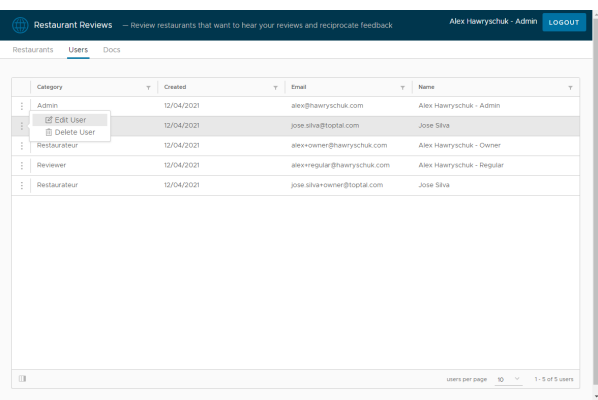
Delete a User

As an administrator user, I can delete users

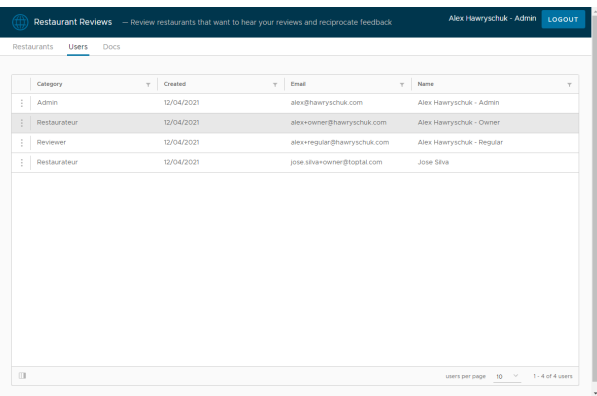
Starting from the "Users" page,



...click on the dropdown button (ellipses symbol) on the left side of the user row,



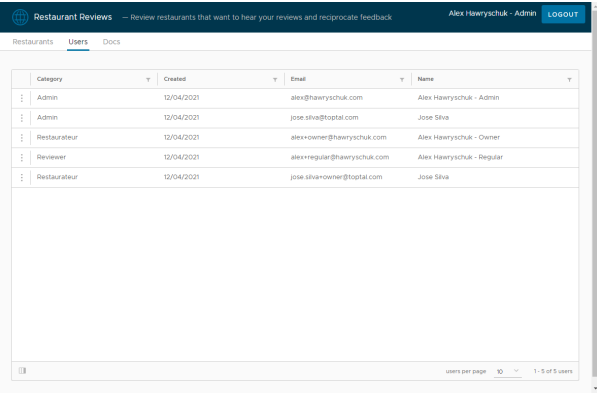
...and finally click on the "Delete User" button to delete the user.



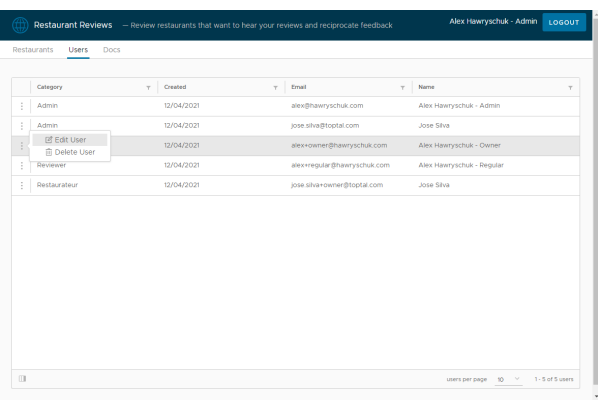
Edit a User

As an administrator user, I can edit users

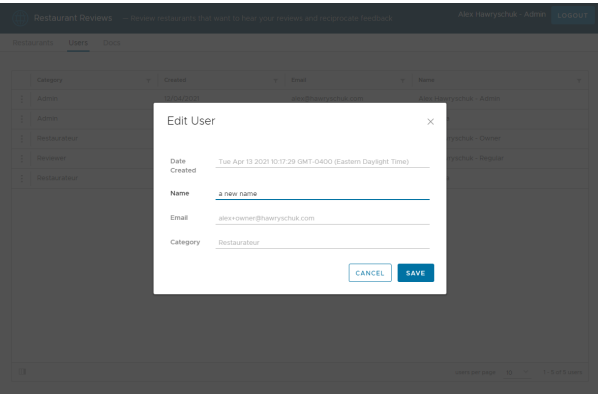
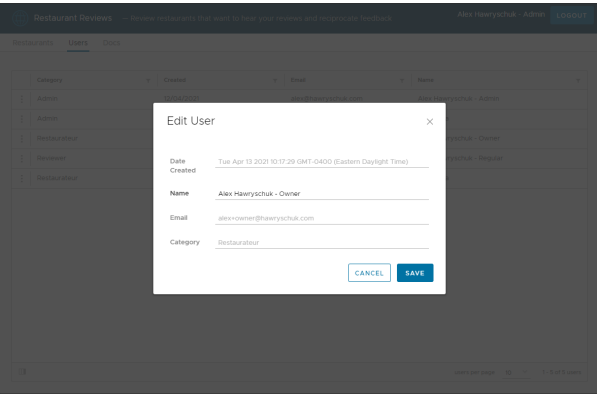
Starting from the "Users" page,



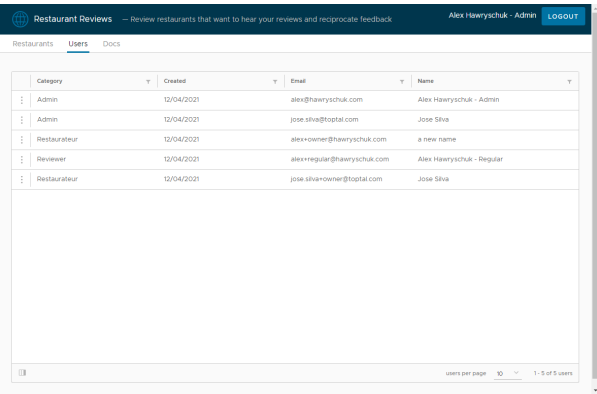
...click on the dropdown button (ellipses symbol) on the left side of the user row,



...and then click on the "Edit User" button,



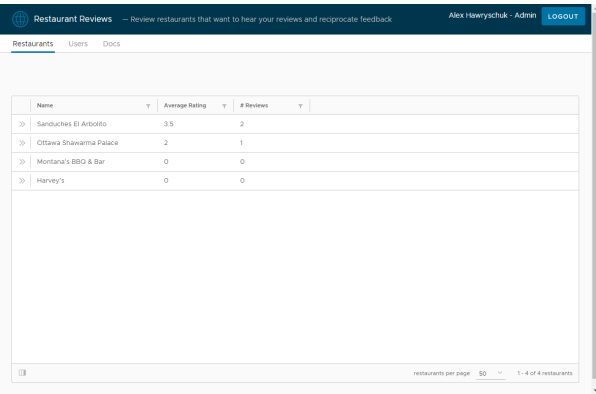
...and finally, click on the "Save" button.



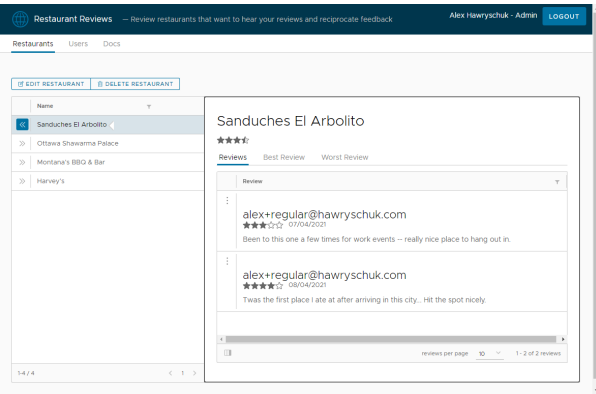
Delete a Restaurant

As an administrator user, I can delete restaurants

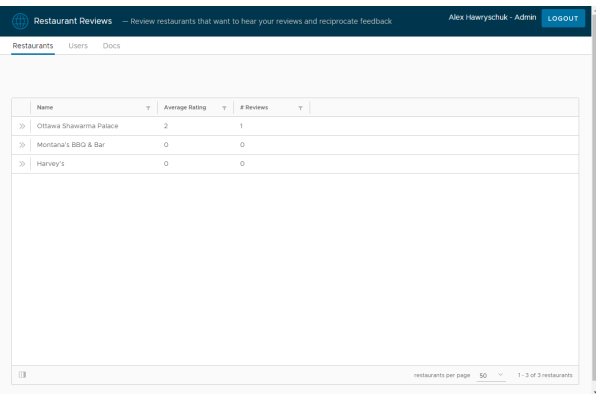
Having signed in as an admin user, I can see a list of restaurants



Click on the "view" button for the restaurant you wish to remove



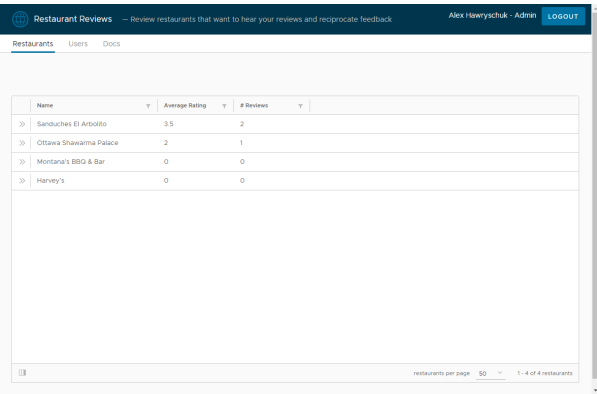
Click on the "delete" button



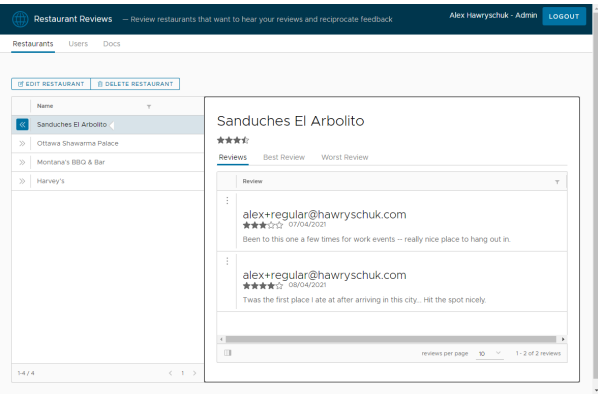
Edit a Restaurant

As an administrator user, I can edit restaurants

Having signed in as an admin user, I can see a list of restaurants

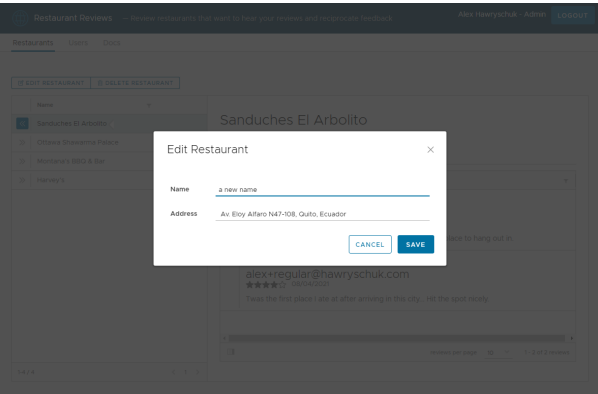
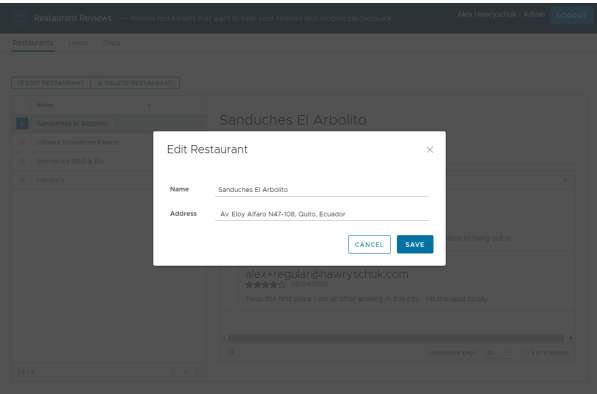


Click on the "view" button for the restaurant you wish to edit

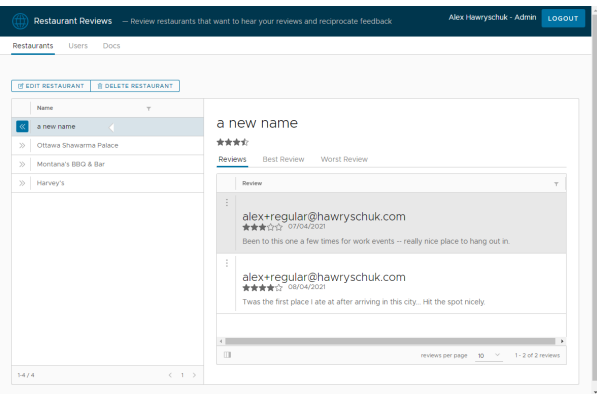


Click on the "Edit Restaurant" button

Make changes, such as typing a new name



Click on the save button

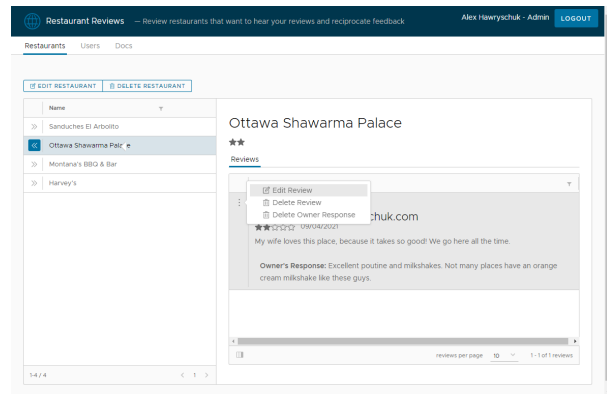
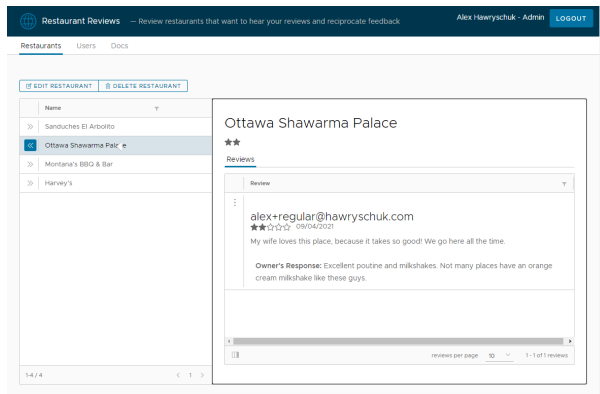


Edit and delete a restaurant reviews and responses

As an administrator, I can edit and remove reviews and their responses

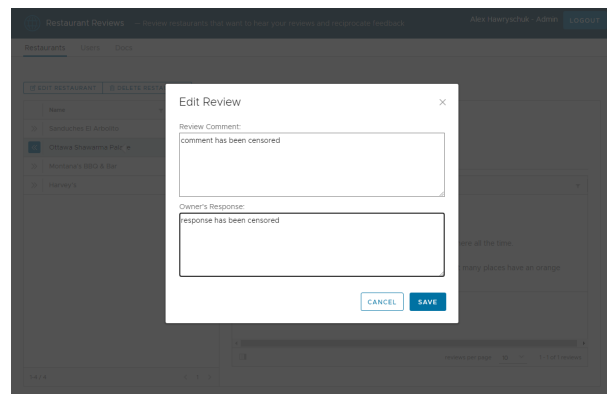
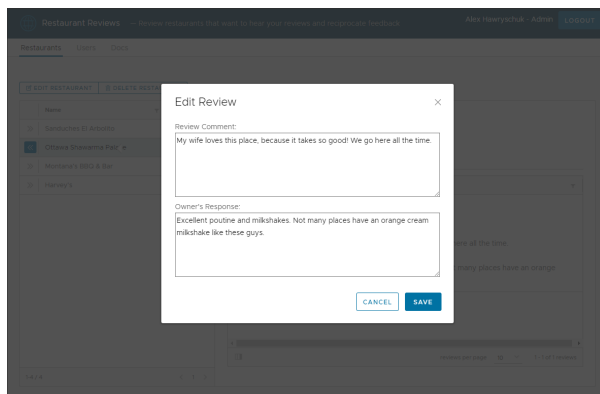
Having signed in as an admin user, and viewing the reviews in the restaurant details,

...click on the dropdown button (ellipses symbol) on the left side of the review row,



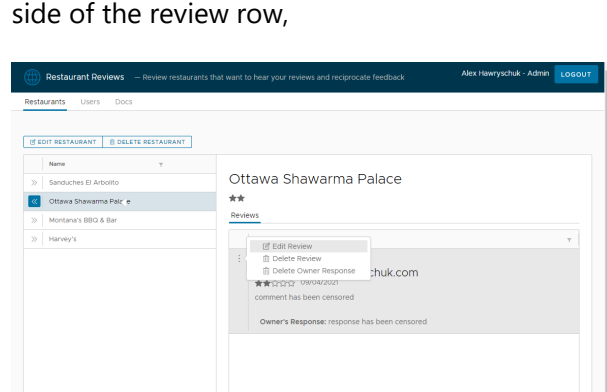
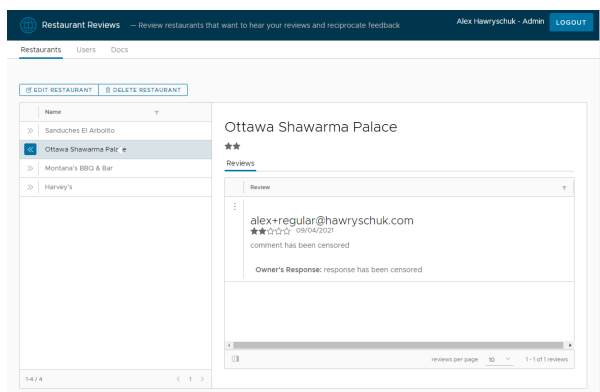
...and then the "Edit Review" button,

...perform the edits you wish to make,

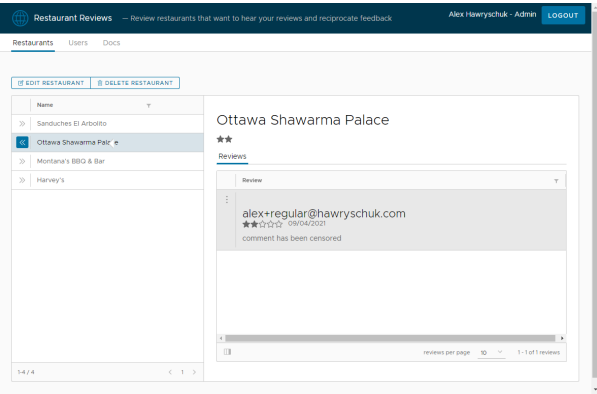


...and finally click on the Save button.

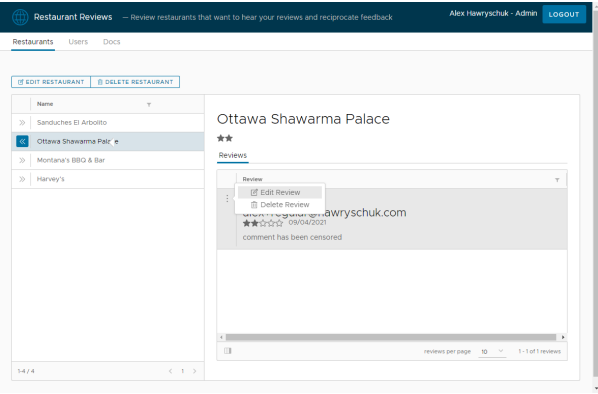
To remove the comment response, click on the dropdown button (ellipses symbol) on the left side of the review row,



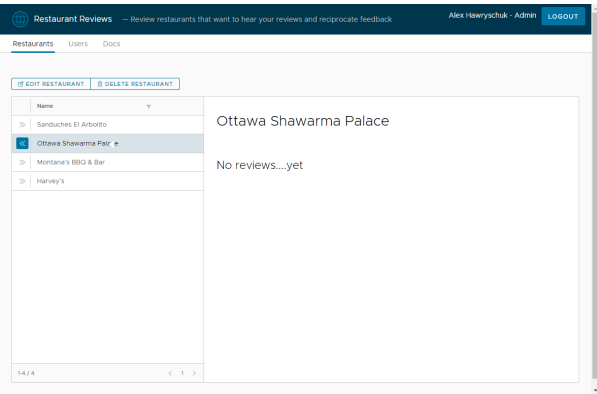
..., and then the "Delete Owner Response" button



To remove the comment, click on the dropdown button (ellipses symbol) on the left side of the review row,



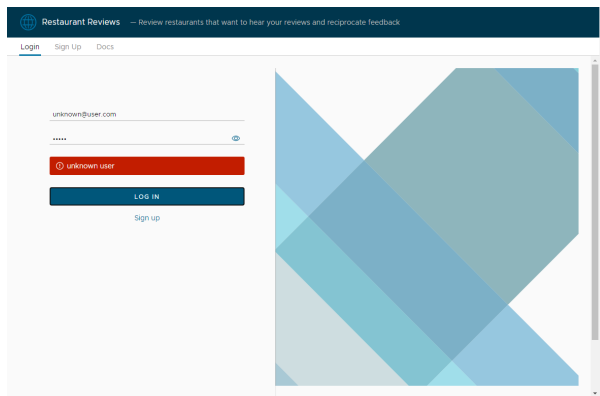
..., and then the "Delete Review" button



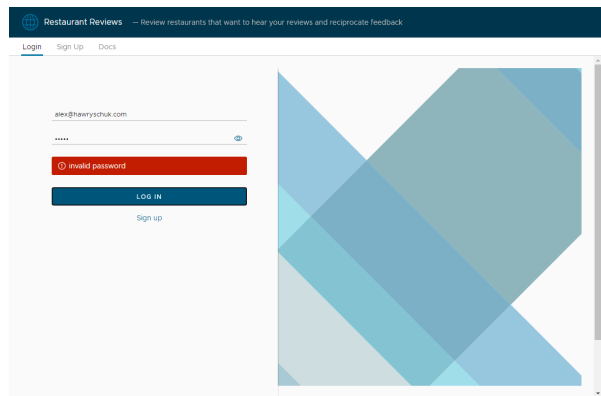
Error Detection: Log In

The username must exist, and the password must be correct

login-unknown-user



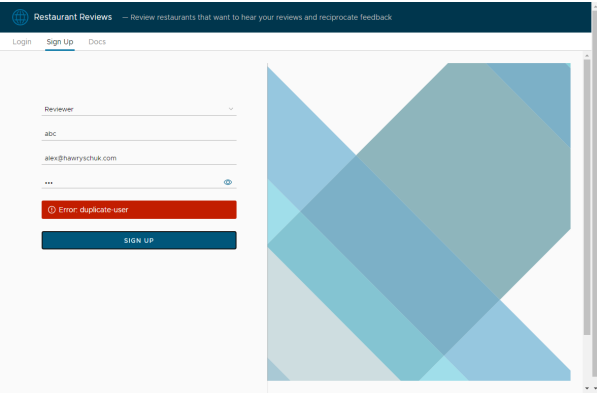
login-invalid-password



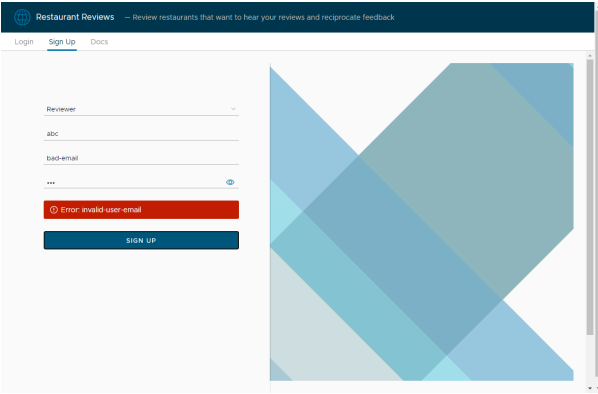
Error Detection: Sign up

The email must be valid, not already signed up, have a name, and a password.

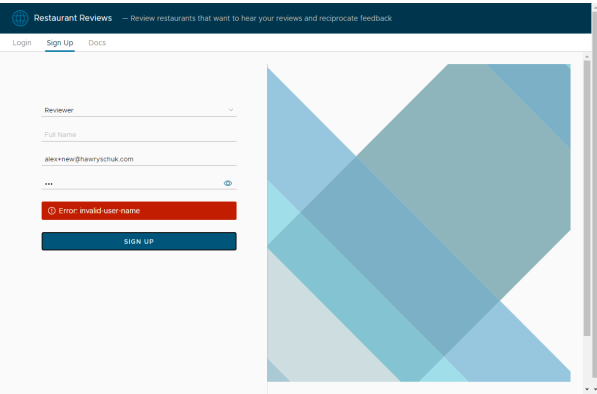
signup-user-exists



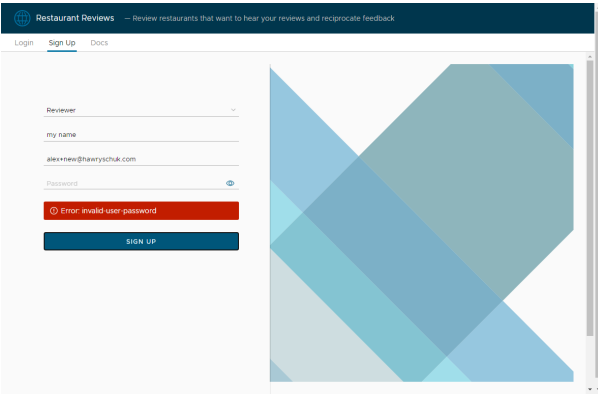
signup-invalid-email



signup-invalid-name



signup-invalid-password

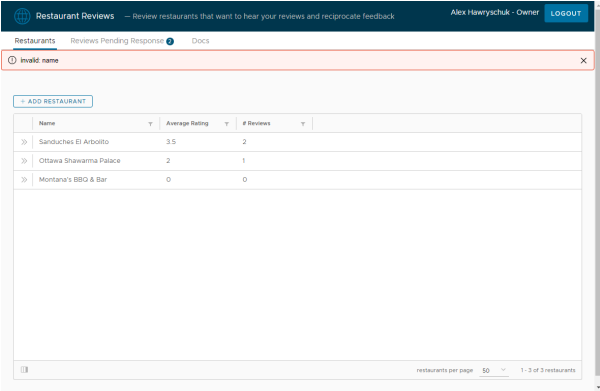
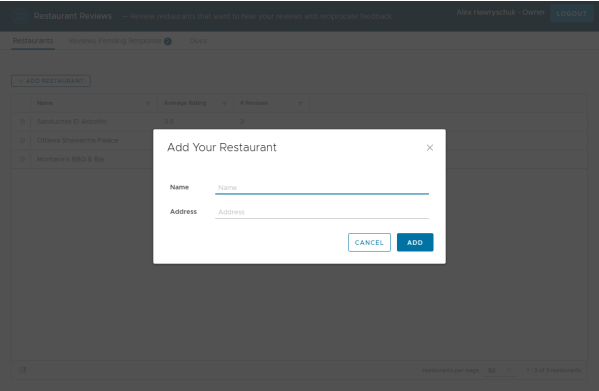


Error Detection: Create a restaurant

Restaurants must have a name

Starting from after clicking on the "Create Restaurant" button,

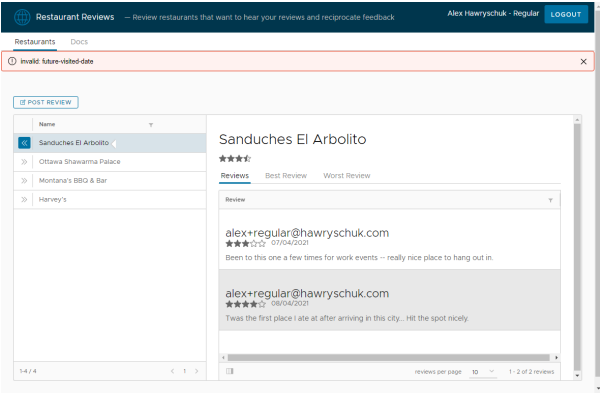
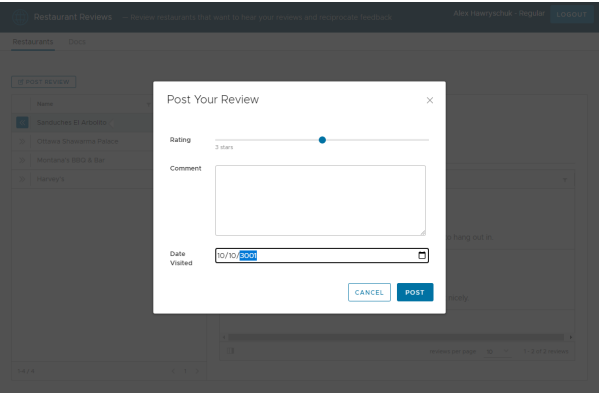
Without filling in the restaurant name, and submitting...



Error Detection: Post a review

A valid review includes: a rating between 1-5, a past date, and an optional comment

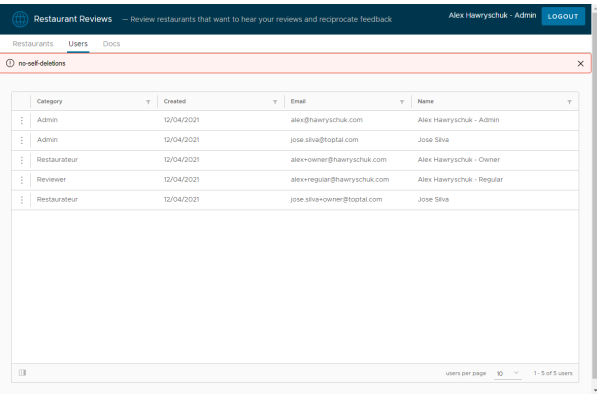
invalid-date



Error Detection: Delete a User

The administrator cannot delete his own user account

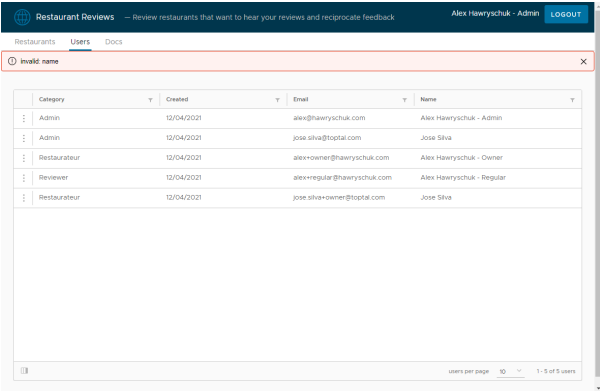
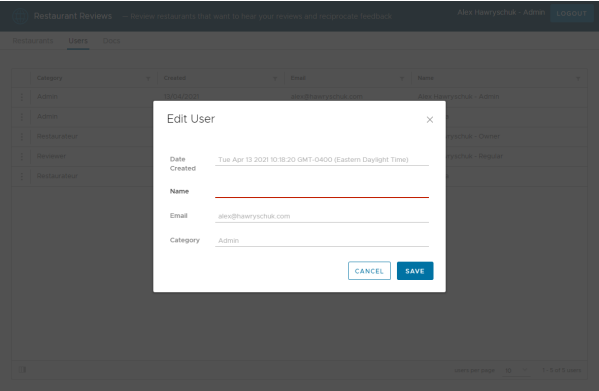
Starting from the "Users" page, try to delete your account...



Error Detection: Edit a User

A User must have a name

Starting from the "Users" page, having clicked ...and pressing save.



Error Detection: Edit Restaurant

A restaurant is required to have a name

Starting from the "Edit Restaurant" dialog, ...once you click save, an alert will display.

