

# Hulton Hotels: an Online Hotel Reservation System

Group 16

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**\*\*The web app requires that it be run on Google Chrome and experiences issues with other browsers\*\***

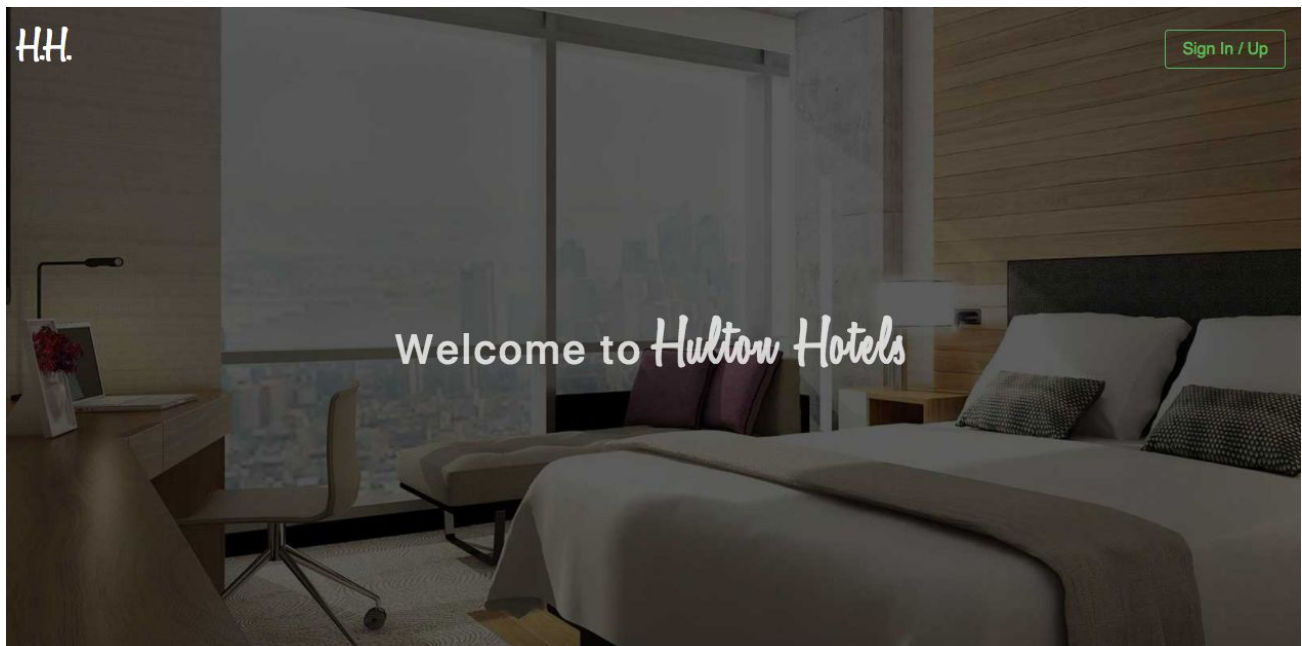
**\*\*TO ACCESS A LIVE VERSION OF THE APPLICATION NAVIGATE TO THE BELOW URL\*\***

<http://ec2-18-216-157-63.us-east-2.compute.amazonaws.com:8080>

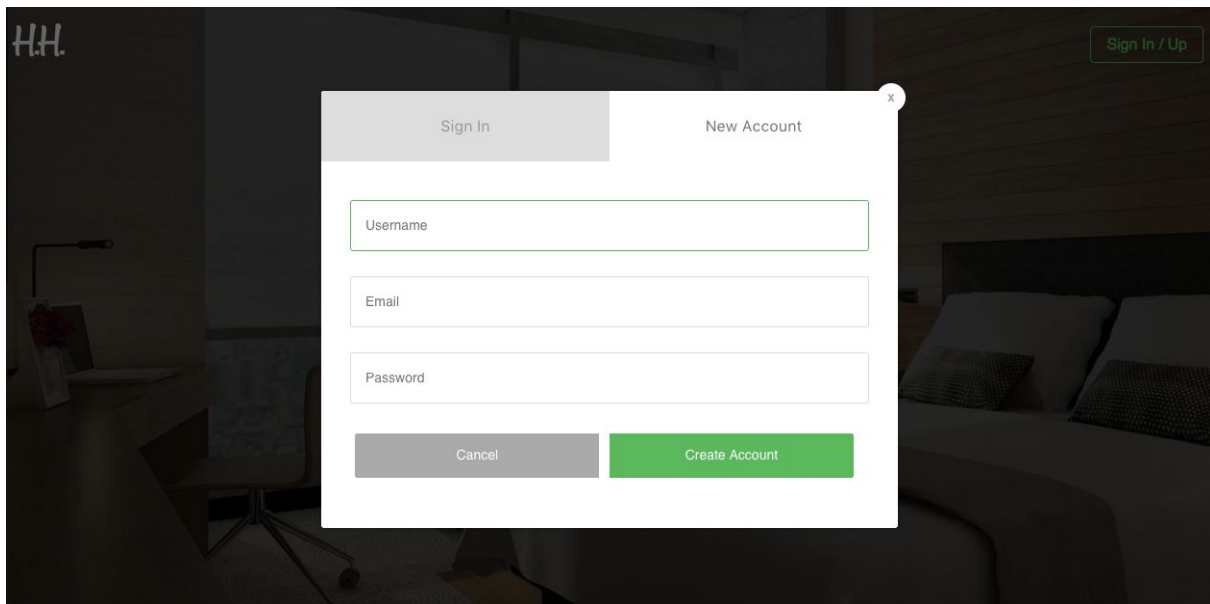
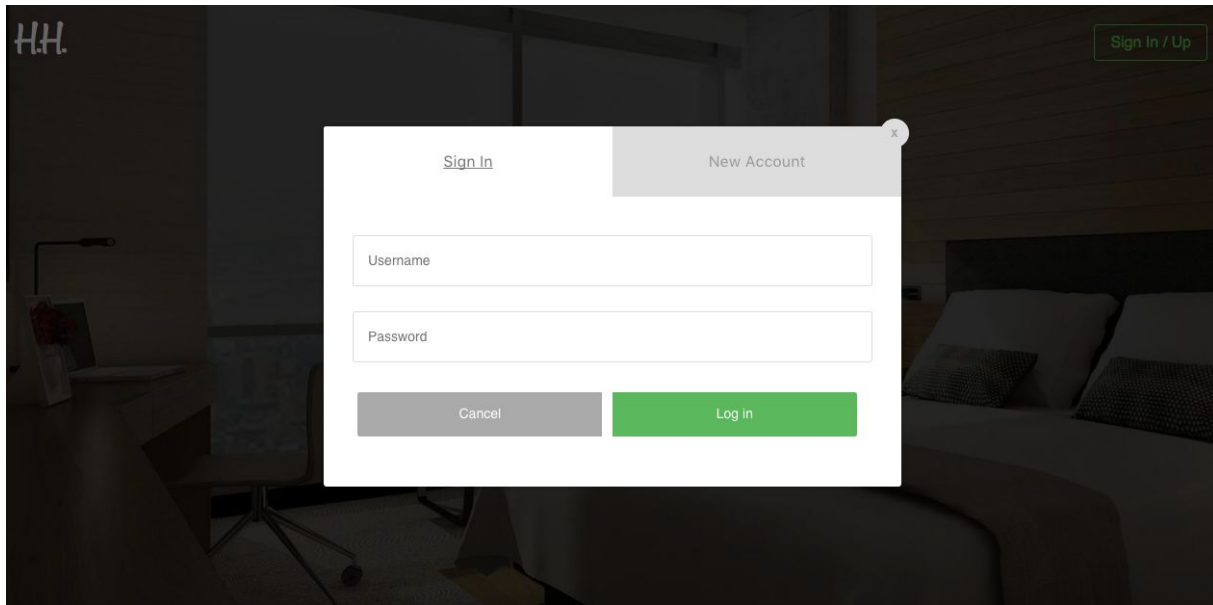
**To run the web app locally (if above link doesn't work):**

1. Install Node.js /NPM
2. Navigate to highest project directory
3. Run the command 'npm install'
  - a. This will install all of the node package dependencies in order for the web app to work properly
4. Run the command 'node server.js'
  - a. This will start the server which will make the application viewable on your local machine
  - b. Navigate to localhost:8080 in Google Chrome to access the running application

## Homepage

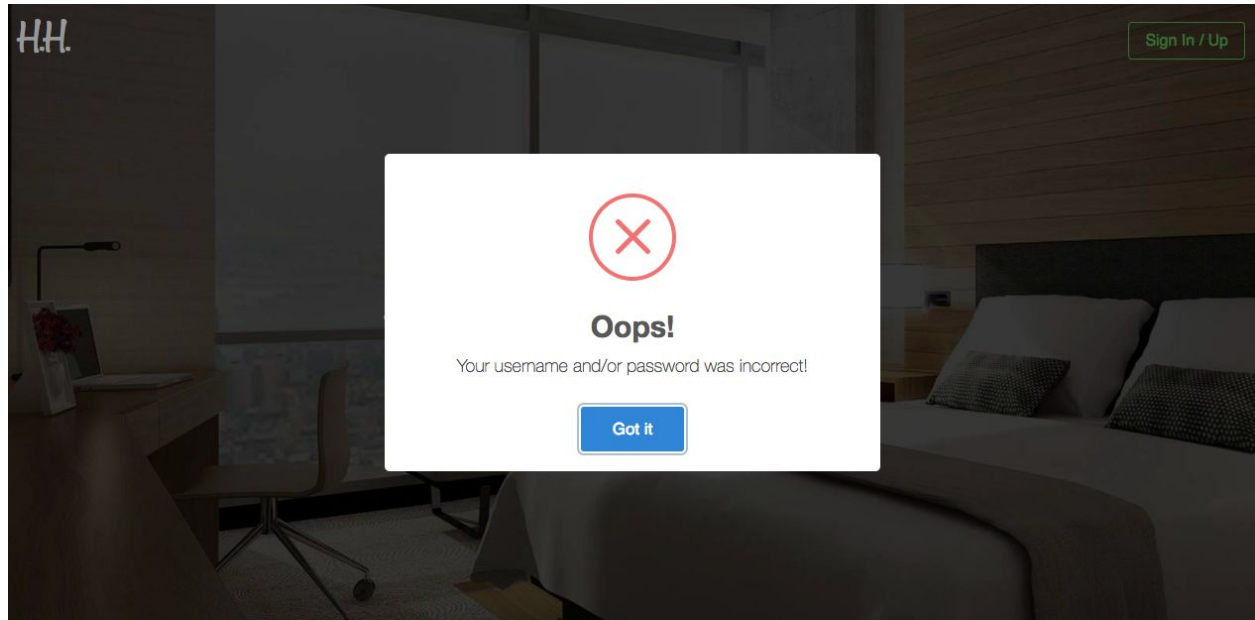


Our homepage features three items. In the top left is the Hulton Hotels logo which when clicked will redirect the user back to the homepage. The second is a welcome message to the user. Thirdly, in the top right is a Sign In/ Up button that opens a modal where the user can log back into their existing account, or if they do not already have an account can sign up and create one. These two options are separated in different tabs among the modal.



After the user signs in or creates their account, they are then redirected to another page which is the user's own profile page.

If the user inputs an incorrect password an alert message pops up and then redirects the user back to the sign in modal.



## Profile Page

mattgrillo

My Reservations

My Room Reviews

My Breakfast Reviews


My Service Reviews

Reservation Statistics

Logout

Conn

All Hotels



ID: 1

Street: 089 Allen Ramp Station


City: Ernserstad

State: Alabama

Country: United States

Phone #: 8760932980

Reserve



ID: 2

Street: 772 Lind Locks Heights

City: East Vickieton

State: Alaska

Country: United States

Phone #: 7994963347

Reserve

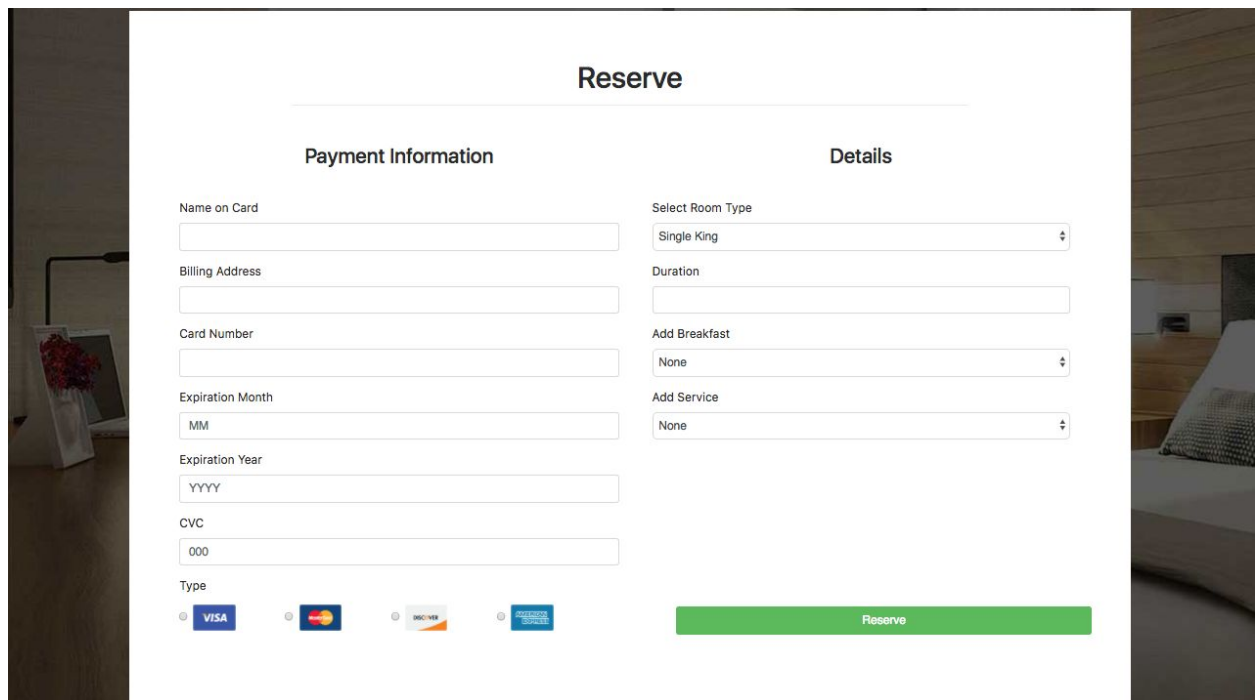
localhost:8080/profile/mattgrillo/myservicereviews/reviews

After the user signs in or creates their account, the user is directed to the profile page where they can view their own reservations, reviews, and create new reservations for the future.

The display encompasses all the necessary functionality. The user can view and browse the many different hotels available from Hulton. The hotel entity displays a thumbnail picture of the hotel and all other necessary information about it.

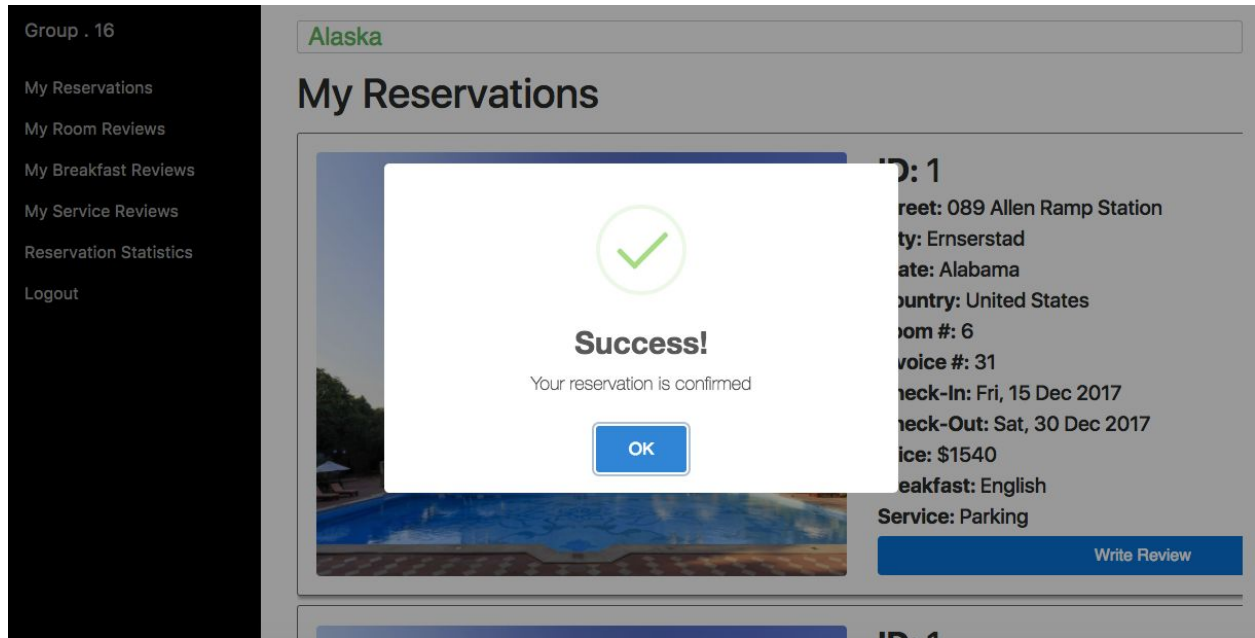
The user can also type in a specific location in the search bar above. This permits the user to view each hotel within the specific destination that the user searches for.

## Reserve Page

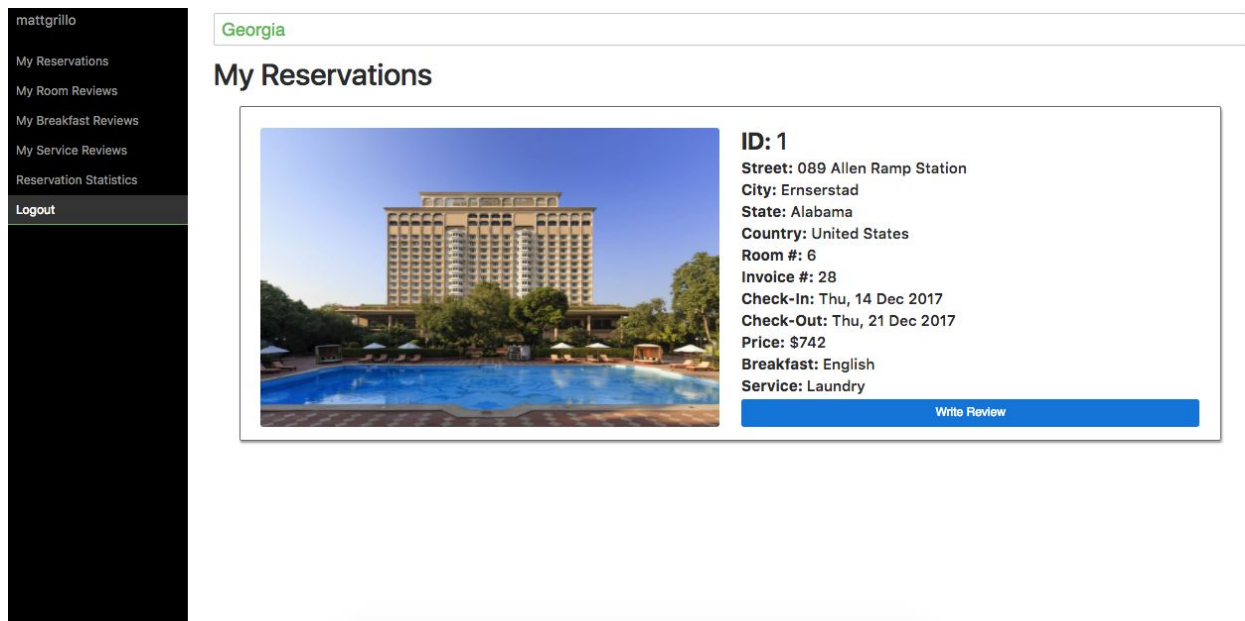


The screenshot displays the 'Reserve' page, which is divided into two main sections: 'Payment Information' and 'Details'. The 'Payment Information' section includes fields for 'Name on Card', 'Billing Address', 'Card Number', 'Expiration Month' (MM), 'Expiration Year' (YYYY), 'CVC' (000), and 'Type' (with radio buttons for VISA, Mastercard, AMERICAN EXPRESS, and DISCOVER). The 'Details' section includes a 'Select Room Type' dropdown (currently showing 'Single King'), a 'Duration' field, an 'Add Breakfast' dropdown (currently showing 'None'), and an 'Add Service' dropdown (currently showing 'None'). A green 'Reserve' button is located at the bottom right of the form.

If the user clicks on the reserve button for the specific hotel of their choice, they will be redirected to the reservation page. This page permits the user to input all the necessary information to create a reservation. All the input will be recorded and sent to the database. After the user clicks reserve and all the necessary text fields are filled, the user will be redirected to the My Reservations page and a success alert will appear on screen.



## My Reservations Page

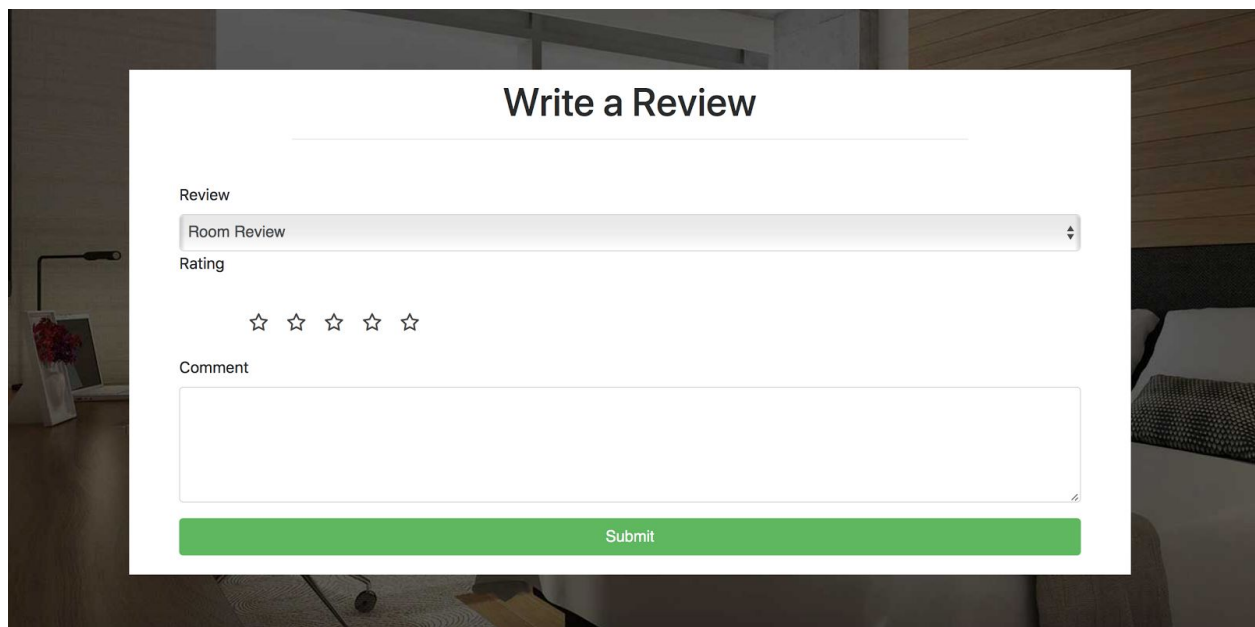


The My Reservations page allows the user to view and manage his specific reservations among Hulton Hotels. The reservation entity displays all the necessary information regarding the user's specific reservation at that Hulton Hotel.

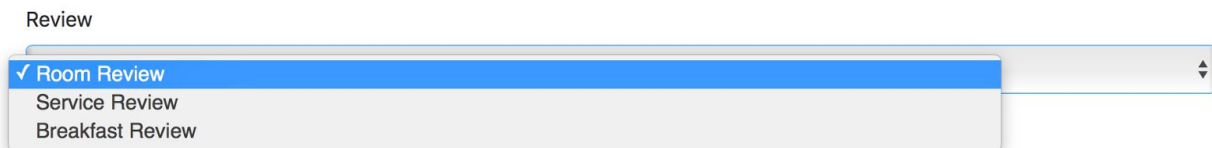
The user can write a review for their specific reservation. The user also has access to the original navigation bar and can search for more hotels to book more reservations. When the Write Review button is pressed, the user is directed to the write a review page.

## Write Review Page

In order to write a review for a specific hotel, first you must make a reservation for that hotel. After you made a reservation you will be able to write a review about that hotel. After you click “write review” button you will be redirected to the new page that looks like this.

A screenshot of a web form titled "Write a Review". The form is white and centered on a dark background. It contains a dropdown menu labeled "Review" with "Room Review" selected. Below it is a "Rating" section with five gray stars. Underneath is a "Comment" section with a large text area. At the bottom is a green "Submit" button.

Here you will be able to select the type of the review that you would like to write.

A close-up of the "Review" dropdown menu. The menu is open, showing three options: "Room Review" (selected with a blue highlight and a checkmark), "Service Review", and "Breakfast Review".

After you selected the type of the review, you will need to leave a rating(out of 5).

At first the stars are of a gray color with black outline. When you hover your mouse over, the star that you would like to select will be enlarged, so you could see what are you choosing.

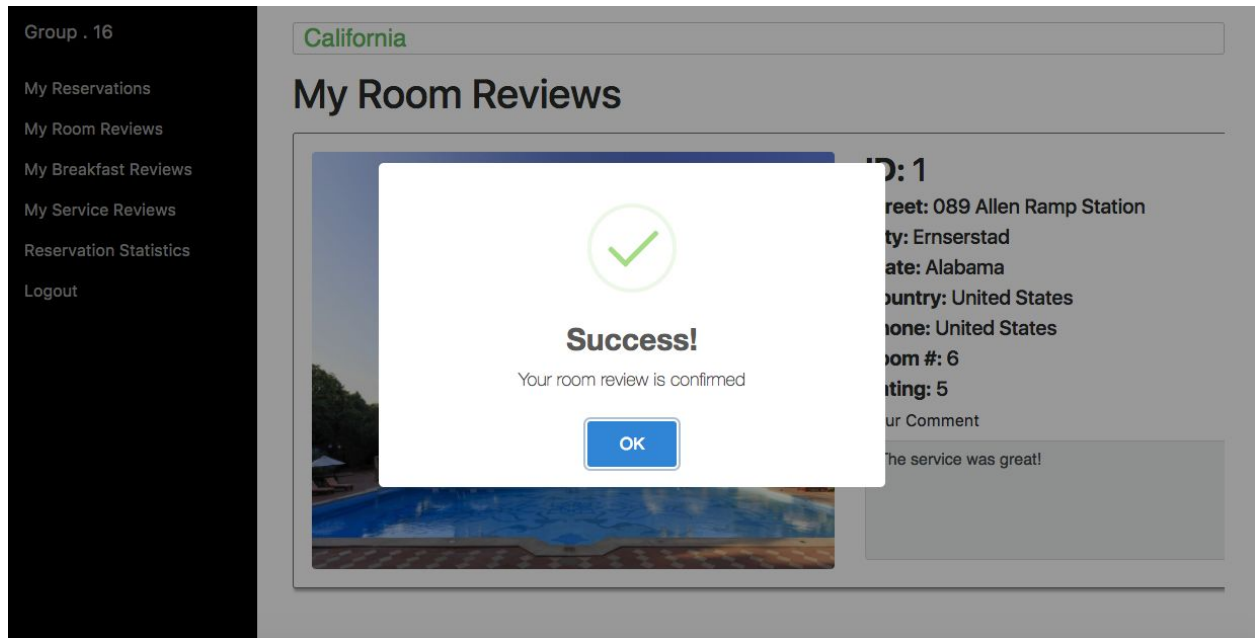


Also, based on the value of the rating that you would like to leave the stars change color.



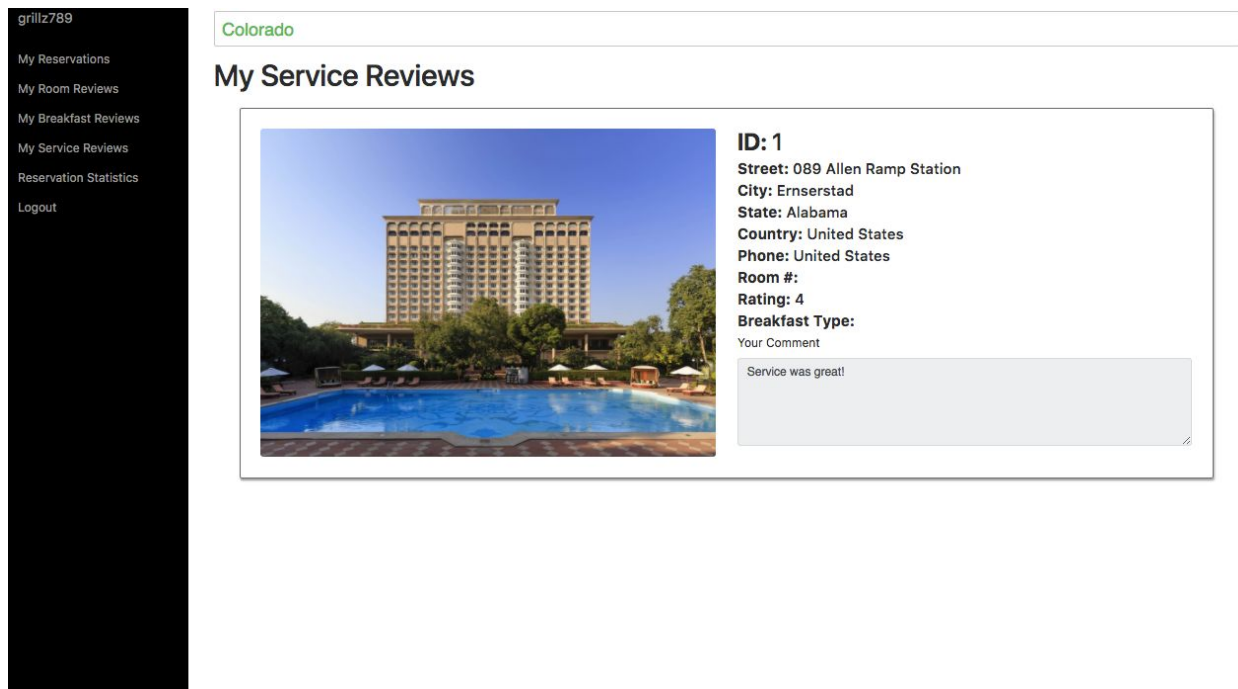
By hitting the submit button, your rating and review will go into our database and the user will be redirected to the My Reviews page for the specific type of review chosen. Let's look at an example that directs the user to the My Room Review page. When this happens another success alert appears letting the user know the review was created successfully.





The review and rating can then be viewed by the user in the My (Room/Service/Breakfast) Reviews Pages.

## My (Room/Service/Breakfast) Reviews Page

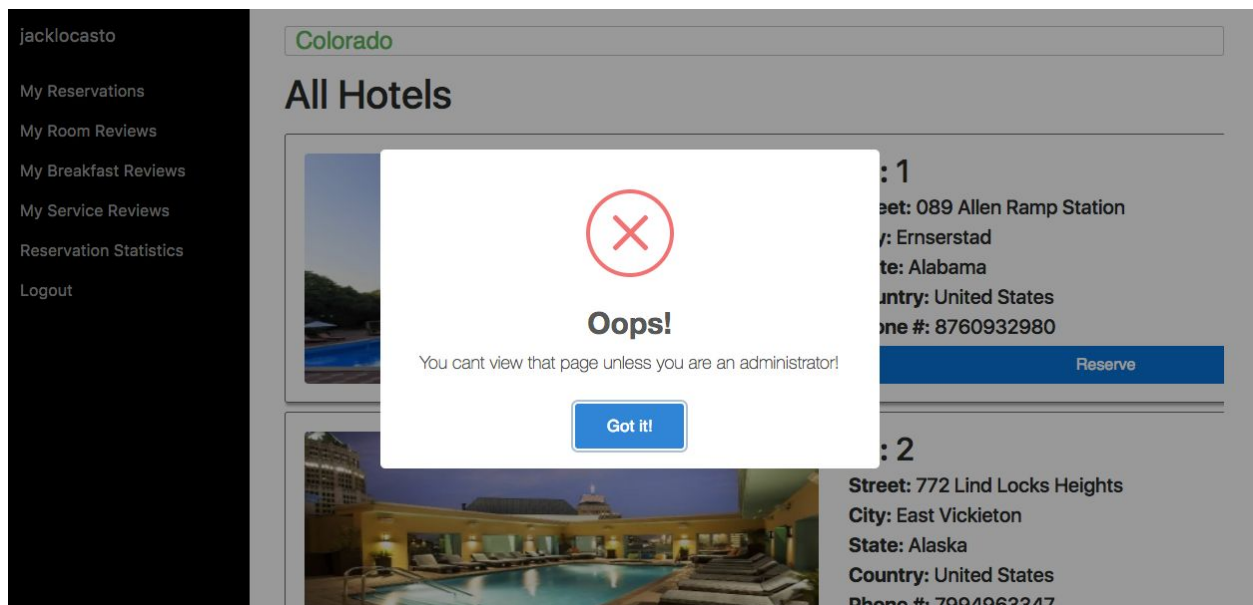




This display lists the specific review entity for the user. All of the user's reviews can be managed by the specific review category that it falls under. The picture above displays all the Service Reviews for that specific user.

## Reservation Statistics:

This display provides statistics to the user only if the user is an admin. If the user is not the admin an alert tells the user that this page is only for the administrator.



The admin login credentials are as follows:

Username: admin

Password: password

The admin will then navigate from the profile page to the Reservation Statistics page by clicking the tab along the left hand side.

Admin

My Reservations

My Room Reviews

My Breakfast Reviews

My Service Reviews

Reservation Statistics

Logout

California

## Reservation Statistics

Time Period

Submit

Highest Rated Breakfast:

Highest Rated Service:

Top 5 Paying Customers

At this point the admin can then choose the start and end date of which he/she would like to pull statistics from. When this is done, the following statistics will appear for the given time period:

1. Highest Rated Breakfast among all hotels during this time period
  - a. Displayed just below the submit button
2. Highest Rated Service among all hotels during this time period
  - a. Displayed just below Highest Rated Breakfast
3. The top five customers in terms of money spent during this period
  - a. Displayed just below Highest Rated Service

And for each hotel:

4. Highest rated room type for this time period
  - a. Displayed within each individual hotel's container so it is easily understood which hotel it corresponds to

Admin

My Reservations

My Room Reviews

My Breakfast Reviews

My Service Reviews

Reservation Statistics

Logout

## Reservation Statistics

Time Period

2017-11-01 / 2017-11-30

Submit

Highest Rated Breakfast: None

Highest Rated Service: None

### Top 5 Paying Customers


1 - jacklocasto

2 - andrewleonard

3 - a

4 - Group . 16

5 - Group . 16



ID: 1

Rating: 5

Highest Rated Room Type: Single Queen

## Individual Responsibilities:

Jack LoCasto:

Designed the Reservation and Reservation Statistics pages using HTML and CSS for styling, and edited the PDF.

Andrew Leonard:

1. Created the AWS micro-instance to serve the web application in the cloud and linked it to a separate mysql database instance also stored on AWS servers
2. Implemented entire back-end using Node.js and Express.js (a middle-ware library that easily allows for route creation/manipulation
  - a. Each of these routes designate what happens when the user navigates to a certain URL
  - b. These also allowed for http post requests which made it fairly easy to handle the back-end database logic when inserting, and otherwise modifying data

3. Wrote python scripts to:
  - a. Pull 100 images from google of random hotels to serve as images for hotels
  - b. Populate the DB with 100 hotels each of which has 300 rooms.
  - c. Populate the DB with different types of Services and Breakfasts along with appropriate descriptions and prices
4. Implemented front-end javascript logic using EJS (templating framework) to set links of each html element to navigate to their respective routes
5. Implemented front-end logic determine when to fire appropriate alerts when the user has done something wrong
6. Implemented login/registration functionality using Passport.js (Node package) to create login sessions with appropriate time-outs for a user

Matthew Grillo:

Designed the Profile Page scroll display and Write Review Page, setup Database, and edited the PDF.

Luka Rekhviashvili:

Designed Write Review Page and helped with design of the Profile Page

Garis Silega:

Helped set up the Database, My Reservation, and PDF