Happy Home Service Layers Design Mike Wooldridge

Overview

The backend of my application will be built using Django's REST framework. The front end will consist of:

- 1. Urls these are routes to the endpoints
- 2. Models this is the model for the database tables represented as classes
- 3. Views this is the business logic. It will use forms and REST requests to gather and manipulate data.

Specifications

The following is a list of the urls and models for the Happy Home web application.

1. Get user information

```
Method: GET
```

URL: http://happyhome.com/create/user

Purpose: When a user clicks on create user, the endpoint will be called and the data returned will be used to render the user profile page

```
Model:
class User()
first
last
address
city
state
zip
email
home
mobile
work
```

2. Get business information

Method: GET

URL: http://happyhome.com/create/business

Purpose: When a user clicks on create business, the endpoint will be called and the data returned will be used to render the business profile page

Model:

class Provider():
name
poc_first
poc_last
address
city
state
zip
email
url
home
mobile
business
description

3. Display user information

Method: POST

URL: http://happyhome.com/user/profile

Purpose: When a user is logged in, he/she can click a link in the navbar to view their profile and the data will be rendered to a form on the user profile

Model:

Class User as shown in specification 1

4. Display business information

Method: POST

URL: http://happyhome.com/business/profile

Purpose: When a user is logged in, he/she can click a link in the navbar to view their profile and the data will be rendered to a form on the user profile

Model:

Class Provider as shown in specification 2

5. Display a list of user reviews

Method: POST

URL: http://happyhome.com/user/reviews

Purpose: When a user is logged in, he/she can click a reviews link on their profile page that will us a join query to retrieve review data to be rendered on the user reviews page

Models:

```
class Review():
    provider_id
    user_id
    rating
    text
```

class User as shown in specification 1

6. Display a list of business reviews

Method: POST

URL: http://happyhome.com/business/reviews

Purpose: When a business is logged in, he/she can click a reviews link on their profile page that will us a join query to retrieve review data to be rendered on the business reviews page

Models:

class Review as shown in specification 5 and class Provider as shown in specification 2

7. Display a list of replies left by businesses in response to user reviews

Method: POST

URL: http://happyhome.com/business/replies

Purpose: When a business is logged in, he/she can click the replies link on the business profile page that will us a join query to retrieve reply data to be rendered on the business replies page

```
Models:
class Reply():
    review_id
    text
```

class Review as shown in specification 5, class User as shown in specification 1, and class Provider as shown in specification 2

8. Display a list of search results

Method: POST

URL: http://happyhome.com/search

Purpose: When a user enters search for a business name and/or a category of service, the results will be rendered on the search page. This will include a business name and description as well as the average user rating and the number of ratings.

```
Model:
class Category():
name

class Classification():
provider_id
category_id
```

class Provider as shown in specification 2

9. Display of business data to users

Method: POST

URL: http://happyhome.com/business profile

Purpose: From the search(results) page, the user can click the profile link next to a business and this will render the retrieved data on the business profile page. This will also include average user review and number of reviews.

Model:

class Provider as shown in specification 2 class Review as shown in specification 5

10. User request for a quote from business of a specific category

Methods: POST, GET

URL: http://happyhome.com/quote

Purpose: When a user clicks 'get quote', the quote page will be displayed. The user will select a category and their contact info and zip code will prepopulated in a form. The can type a text message and click submit. The user data will be forwarded via email the business that are tagged with the selected category.

Model:

class User as shown in specification 1 class Provider as shown in specification 2 class Category and class Classification as shown in specification 8

11. A user requests a quote from a specific business

Methods: GET, POST

URL: http://happyhome.com/contact

Purpose: a user may click 'request a quote' from the business profile page and the contact page will be rendered with the user's contact info and zip code prepopulated in a form in which the user can also enter text. Clicking submit will send the information to the chosen business's email.

Model:

class User as shown in specification 1 class Provider as shown in specification 2