



CSCI-5448 DOCTOR FINDER

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PROJECT SUMMARY

Doctor Finder is a web application that provides a service to help patients to find the right doctors based on some criteria

Functionalities:

- **Patient** can create an account, login, search for doctors, sort the searching results, view doctor's info, write reviews for doctors, locate a doctor's location on map, save/remove favorite doctors and edit account info.
- **Doctor** can login and update information
- **Admin** can add/delete/update users and doctors information.

Doctor Finder Website: <http://drfinder.pythonanywhere.com/>

Use Case-07: Search for Doctor

Use Case ID:	UC-07
Use Case Name:	Search for Doctor
Description:	Patient can search for a doctor based on doctor's specialty, location, and insurance accepted.

Actors:	Patient	
Pre-conditions:	Patient wants to search for a doctor based on specific search criteria either or not he has an account. Patient's current location is chosen as the default location.	
Post-conditions:	A list of doctors has been displayed based on the provided search criteria.	
Frequency of Use:	Frequently throughout the day by patients	
Flow of Events:	1	Patient selects the required specialty.
	2	Patient chooses his current location. DoctorFinder fills in location field (state, city, zip code) automatically.
	3	Patient selects his type of insurance.
	4	Patient submits his selections. DoctorFinder displays a list of doctors based on the provided search criteria.
Variations:	2. The Patient enters a specific location (state, city or zip code).	

Doctor Finder

Speciality: Primary Care

City: Denver

State: Colorado

Zip: 80246

Insurance: Aetna

Search

Use Case-13: Review and Rate Doctor

Use Case ID:	UC-13
Use Case Name:	Review and Rate Doctor
Description:	Allow patient to rate and post a review for the doctor on the doctor's profile page

Actors:	Patient	
Pre-conditions:	Patient has previously created an account, is currently logged in, and has navigated to the appropriate doctor profile page.	
Post-conditions:	Rate and review have been added to the doctor's profile page.	
Frequency of Use:	Frequently by the patient.	
Flow of Events:		Actor Action
		System Response
	1	Patient selects "Write a Review" function.
		DoctorFinder opens a dialog box for the patient to type in his review and provides options from 1 to 5 to select the doctor's rating.
	2	Patient types in the review.
	3	Patient gives his rating to the doctor.
	4	Patient selects "Submit" function.
		DoctorFinder saves the review and rating and posts them to the Doctor's profile page.
Variations:		

Reviews : Add Review!

Rating: 4

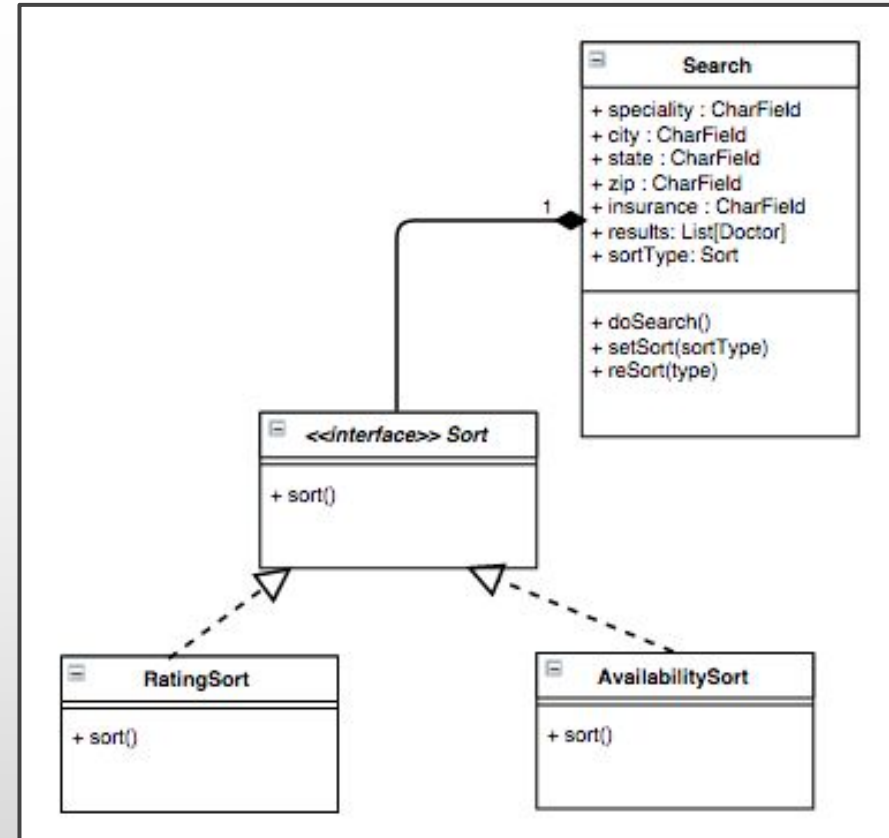
Good job

Comment:

Submit

Design Pattern - Strategy

- Sort doctor results based on sort type:
 - Sort results by doctor's **rating**
 - Sort results by doctor's **availability**



Design Pattern - Strategy


- sort.py

```
class Sort():
    def sort(self, results):
        raise NotImplementedError("You have not implemented the sort method")

class RatingSort(Sort):
    #sort results in descending order by rating
    def sort(self, results):
        return sorted(results, key=attrgetter('rating'), reverse=True)

class AvailabilitySort(Sort):
    #sort results in ascending order by availability
    def sort(self, results):
        return sorted(results, key=attrgetter('availability'))
```



Design Pattern - Strategy

Doctor  **Finder**

Search results for **Primary Care** doctors in **Denver** :


Sort by:

- ☒ Rating
- ☐ Availability



Johnny Shen

- **Speciality:** Primary Care
- **Rating:** 5.0
- **Next Availability:** Dec. 15, 2015
- **Location:** 760 South Colorado Blvd. , Denver , CO, 80246
- **Phone#:** 3036928000



Dennis Anello

- **Speciality:** Primary Care
- **Rating:** 5.0
- **Next Availability:** Dec. 13, 2015
- **Location:** 760 South Colorado Blvd. , Denver , CO, 80246
- **Phone#:** 3036928000

ABOUT PROJECT

Interesting things that we learned from our project:

- ★ Use of a Web Framework (**Django**)
- ★ Applying **Object Oriented** approach using **Python**
- ★ Learning and implementing **MVC** using **MySQL** for the database
- ★ Learning how to adopt new approaches by evaluating trade-offs



Project Demo



The screenshot shows the 'Doctor Finder' website. At the top, the title 'Doctor Finder' is displayed in a red, stylized font, with a cartoon doctor character in a white coat and stethoscope positioned between the words. Below the title is a search form with the following fields: 'Speciality' (set to 'Primary Care'), 'City' (empty), 'State' (set to 'Alabama'), 'Zip' (empty), and 'Insurance' (set to 'Aetna'). Each field has a small blue icon to its right. A 'Search' button is located at the bottom of the form.

- Doctor Finder Website: <http://drfinder.pythonanywhere.com/>
- Full Demo Video: <https://youtu.be/bp1lg9qfWsU> (5:18)
- Short Demo Video: <https://youtu.be/O2OMeN0jPY4> (2:33)