HEALTH TRACKER

CSCI 5448 : GROUP #21

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PROJECT SUMMARY

- A Health Monitoring Web Application that allows the users to monitor their health parameters.
- Allows two types of users Doctors and Patients
- Allows Patients to select/deselect an Advising Doctor
- Book, Reschedule or Cancel appointment with Doctor

USE CASES # 1 : SELECT DOCTOR

- Allows the Patient to select Advising Doctor
- Patient can search doctors based on multiple dropdown lists namely Specialization and Location.
- The Patient can select the sort preference for the results to be displayed
- The Patient can then select one as the Advising Doctor
- The Doctor is successfully associated with the Patient.

USE CASES # 2 : VIEW PATIENT'S PROFILE

- Allows the Doctor to view his Advising Patients
- Doctor can view his Advising Patients.
- The Doctor can select a patient to see the Patient's profile.
- The Patient's basic information is displayed.

USE CASES DEMO

http://screencast.com/t/sJqNn5fnml9n

SPRING MVC

Separation of concerns between controllers,
 JavaBean models, and views.

Controller

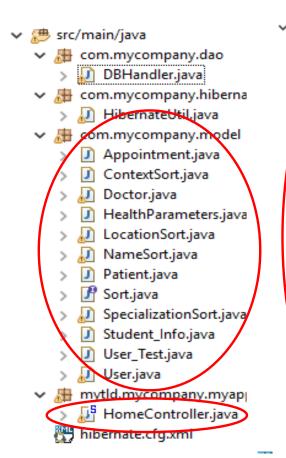
 Responsible for preparing a model Map with data and selecting a view name

Model

Encapsulates the application data and they will consi of POJO's

View

 Data binding through powerful JSP tag library known the Spring tag library



adddoctor.jsp

AppointmentList.jsp

AppointmentConfirm.jpp

appointmentScheduler.jsp

bookAppointment.jsp

cancelAppointment.jsp

displayDoctors.jsp editDoctorProfile.jsp

editPatientProfile.jsp

registerDoctor.jsp

registerPatient.jsp

rescheduleAppointment.jsp

SuccessAddingDoc.jsp

welcomeDoctor.jsp

welcomePatient.jsp

wiewHealthParameters.jsp

registration.jsp

removedoctor.jsp

viewPatients.jsp

home.jsp

index.jsp

style.css

webxml

e Eil

HIBERNATE MAPPINGS & ANNOTATIONS

Annotations:

- Newest way to define mappings without a use of XML file
- All the metadata is clubbed into the POJO java file along with the code

Annotations Used:

- @Id, @Generated Value, @Entity, @MapperSuperclass
- @Inheritance(strategy=InheritanceType. TABLE_PER_CLASS)

Association Mappings:

- Mapping of associations between entity classes and the relationships between tables
- @OnetoOne, @ManytoMany, @OnetoMany, @ManytoOne

PROXY DESIGN PATTERN

<<Interface>> InterfaceDBHandler

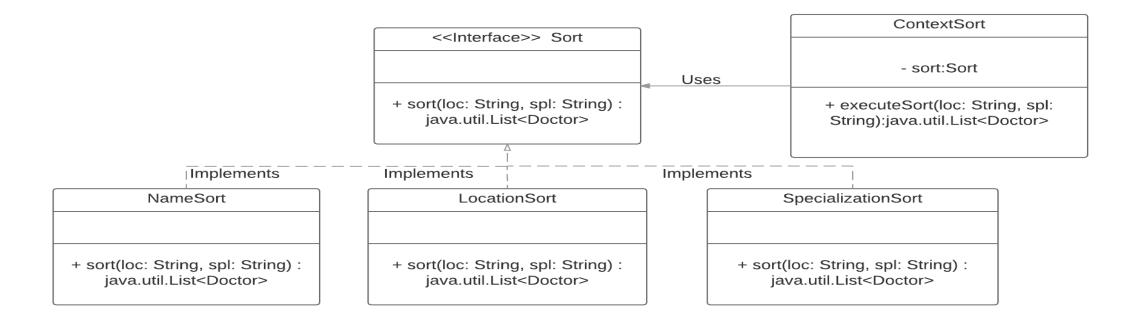
Implements

Implements

DBHandler

ProxyDBHandler

STRATEGY DESIGN PATTERN



REFACTORING

```
public Patient getPatient(String username) {
    SessionFactory sessionFactory = HibernateUtil.getSessionFactory(
    Session session = sessionFactory.openSession();
    session.beginTransaction();
    String queried-"from Patient P where P.userName - :username" :
    Query query= session.createQuery(queried);
    query.setParameter("username", username);
    java.util.List<Patient> patient = query.list();
    return patient.get(0);
public Doctor getDoctor(String username) {
    SessionFactory sessionFactory = HibernateUtil.getSessionFactory()
    Session session = sessionFactory.openSession();
    session.beginTransaction();
    String queried="from Doctor D where D.userName = :username" ;
    Query guery= session.createQuery(gueried);
    query.setParameter("username", username);
    java.util.List<Doctor> doctor = guerv.list();
    return doctor.get(0);
```

```
public Session getDBsession() {
    SessionFactory sessionFactory = HibernateUtil.getSessionFactory();
    Session session = sessionFactory.openSession();
    session.beginTransaction();
    return session;
}

public Patient getPatient(String username) {
    Session session = getDBsession();
    String queried="from Patient P where P.userName = :username";
    Query query= session.createQuery(queried);
    query.setParameter("username",username);
    java.util.List<Patient> patient = guery.list();
    return patient.get(0);
}
```

FUTURE DEVELOPMENT

- Iterator Design Pattern
- Further Refactoring

FULL DEMO

https://github.com/priyankapashte/CSCI5448_HealthTracker/blob/master/HealthTracker_video.mp4

THANK YOU