**Appendix 1.4 Junit Testing**

**1 Patient list test**

package domain.model.patient;

import static org.junit.Assert.\*;

import java.util.Calendar;

import java.util.Date;

import java.util.GregorianCalendar;

import org.junit.Before;

import org.junit.Test;

public class PatientListTest

{

PatientList patients = null;

Patient patient1 = null;

Patient patient2 = null;

Patient patient3 = null;

Calendar calendar = null;

Date dob = null;

Date startdate = null;

@Test

public void test()

{

calendar = new GregorianCalendar(1987, 9, 5);

dob = new GregorianCalendar(2010, Calendar.AUGUST, 15).getTime();

patients = new PatientList();

patient1 = new Patient(1,"Nadeem","Mohamad",dob,"89706","nadeem4u.com","M");

patient2 = new Patient(2,"Alexandru","Vieru",dob,"89706","nadeem4u.com","M");

patient3 = new Patient(3,"Fadi","Dasus",dob,"89706","nadeem4u.com","M");

}

@Test

public void addPatientTest()

{

PatientList patients = new PatientList();

patients.addPatient(patient1);

}

@Test

public void removePatientTest()

{

PatientList patients = new PatientList();

patients.removePatient(patient1);

}

@Test

public void getPatientByNameTest()

{

PatientList patients = new PatientList();

patient1 = new Patient(1,"Nadeem","Mohamad",dob,"89706","nadeem4u.com","M");

patients.addPatient(patient1);

assertEquals(patient1, patients.getPatientByName("Nadeem"));

}

@Test

public void editPatientTest()

{

PatientList patients = new PatientList();

patient1 = new Patient(1,"Nadeem","Mohamad",dob,"89706","nadeem4u.com","M");

patients.addPatient(patient1);

patients.editPatient("Nadeem", "Alex");

assertEquals(patient1, patients.getPatientByName("Alex"));

}

@Test

public void getNumberOfPatientTest()

{

PatientList patients = new PatientList();

patient1 = new Patient(1,"Nadeem","Mohamad",dob,"89706","nadeem4u.com","M");

patients.addPatient(patient1);

patients.addPatient(patient2);

patients.addPatient(patient3);

assertEquals(3, patients.getNumberOfPatient());

}

}

**2 Patient model manager test**

package domain.mediator.patient;

import static org.junit.Assert.\*;

import java.io.IOException;

import java.util.Calendar;

import java.util.Date;

import java.util.GregorianCalendar;

import org.junit.Before;

import org.junit.Test;

import domain.model.patient.Patient;

import domain.model.patient.PatientList;

public class PatientModelManagerTest

{

PatientList list = null;

Date dob = null;

Calendar calendar = null;

PatientDatabase persistence = null;

Patient patient1 = null;

@Test

public void test() throws ClassNotFoundException, IOException

{

calendar = new GregorianCalendar(1987, 9, 5);

dob = new GregorianCalendar(2010, Calendar.AUGUST, 15).getTime();

persistence = new PatientDatabase();

list = new PatientList();

patient1 = new Patient(1, "Alex", "Vieru", dob, " 879068",

"alexvieru.com", "M");

}

public void addPatientTest() throws IOException, ClassNotFoundException

{

persistence.load();

list.addPatient(patient1);

persistence.save(patient1);

list.removePatient(patient1);

}

}

**3 Staff clinic model manager mediator**

package domain.mediator.staff;

import static org.junit.Assert.\*;

import java.util.Calendar;

import java.util.Date;

import java.util.GregorianCalendar;

import org.junit.Before;

import org.junit.Test;

import domain.model.staff.Doctor;

import domain.model.staff.Employee;

import domain.model.staff.EmployeeList;

public class StaffClinicModelManegerTest

{

Calendar calendar = null;

Date dob = null;

Date startdate = null;

Employee emp1 = null;

EmployeeList list = null;

StaffDatabase staffDatabase = null;

StaffClinicModelManeger scm = null;

@Before

public void setUp() throws Exception

{

calendar = new GregorianCalendar(1987, 9, 5);

dob = new GregorianCalendar(2017, Calendar.SEPTEMBER, 5).getTime();

startdate = calendar.getTime();

emp1 = new Doctor(1, "Alexandru", "Vieru", dob, startdate, "12344567",

"os@os.od", "M", "type", "username", "pasw");

list = new EmployeeList();

scm = new StaffClinicModelManeger();

staffDatabase = new StaffDatabase();

}

@Test

public void testAddOneEmployee()

{

EmployeeList list = new EmployeeList();

list.addEmployee(emp1);

}

@Test

public void testgetEmployeeByname()

{

list.addEmployee(emp1);

assertEquals(emp1, list.getEmployeeByName("Alexandru"));

}

}

**4 Patient model manager mediator test**

package domain.mediator.patient;

import static org.junit.Assert.\*;

import java.io.IOException;

import java.util.Calendar;

import java.util.Date;

import java.util.GregorianCalendar;

import org.junit.Before;

import org.junit.Test;

import domain.model.patient.Patient;

import domain.model.patient.PatientList;

public class PatientModelManagerTest

{

PatientList list = null;

Date dob = null;

Calendar calendar = null;

PatientDatabase persistence = null;

Patient patient1 = null;

@Test

public void test() throws ClassNotFoundException, IOException

{

calendar = new GregorianCalendar(1987, 9, 5);

dob = new GregorianCalendar(2010, Calendar.AUGUST, 15).getTime();

persistence = new PatientDatabase();

list = new PatientList();

patient1 = new Patient(1, "Alex", "Vieru", dob, " 879068",

"alexvieru.com", "M");

}

public void addPatientTest() throws IOException, ClassNotFoundException

{

persistence.load();

list.addPatient(patient1);

persistence.save(patient1);

list.removePatient(patient1);

}

}