

Web Tools & Methods Project Report

Hotel Booking:

Summary: This web based application provides customers to book hotel according to their criteria. The customer can search a hotel based upon dates, hotel name and city/country they are travelling to. There are basically 2 roles in this application namely: user and admin/hotel staff.

Both are responsible for performing their own functionality.

Functionality: The hotel reservation system will provide service to on-line customers and hotel management staff/ administrator.

On-line customers can make searches and reservations hotel booking web site.

Administrator can add/update the hotel and the room information, add new policies regarding prices.

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Add New Hotel

Hotel Name:	<input type="text"/>
Address:	<input type="text"/>
City:	<input type="text"/>
Country:	<input type="text"/>
Zipcode:	<input type="text"/>
Hotel Website:	<input type="text"/>
Hotel Description:	<input type="text"/>
location:	<input type="text"/>
Upload Photos:	<input type="button" value="Choose Files"/> No file chosen
<input type="button" value="Add Hotel"/>	

← → ↻ ① localhost:8080/projecttravel/search.htm?dateFrom=2017-04-20&dateTo=2017-04-25&keywordHotel=&submit=Search

Search Results

Check In Date: Thu Apr 20 00:00:00 EDT 2017
Check Out Date: Tue Apr 25 00:00:00 EDT 2017

[Book Hotel :123](#)

Hotel photo : C:\Users\ayush\Documents\workspace-sts-3.8.3.RELEASE\metadata\plugins\org.eclipse.wst.server.core\tmp0\wtpwebapps\WebFinalProject\123\Ana2_2.JPG
Hotel Rate: 20
Room Type: Regular

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[logout](#) Booking Confirmed for Hotel :123 from Thu Apr 20 00:00:00 EDT 2017 to Tue Apr 25 00:00:00 EDT 2017

Your reservation id is: 5

Controllers: **Home Controller**

```
package com.hotelbooking.controller;
```

```
import java.util.*;
```

```
import javax.servlet.jsp.jstl.sql.Result;
```

```
import java.sql.ResultSet;
```

```
import java.text.DateFormat;
```

```
import java.text.SimpleDateFormat;
```

```
import java.util.Date;
```

```
import java.util.Locale;
```

```
import javax.servlet.http.HttpServletRequest;
```

```
import javax.servlet.http.HttpSession;
```

```
import org.slf4j.Logger;
```

```
import org.slf4j.LoggerFactory;
```

```
import org.springframework.beans.factory.annotation.Autowired;
```

```
import org.springframework.stereotype.Controller;
```

```
import org.springframework.ui.Model;
```

```
import org.springframework.validation.BindingResult;
```

```
import org.springframework.web.bind.annotation.ModelAttribute;
```

```
import org.springframework.web.bind.annotation.RequestMapping;
```

```
import org.springframework.web.bind.annotation.RequestMethod;
```

```
import org.springframework.web.servlet.ModelAndView;
```

```
import com.hotelbooking.dao.HotelDao;
```

```
import com.hotelbooking.dao.PhotosDao;
```

```
import com.hotelbooking.dao.ReservationDAO;
```

```
import com.hotelbooking.dao.RoomDao;
```

```
import com.hotelbooking.dao.UserDao;
```

```
import com.hotelbooking.pojo.Hotel;
import com.hotelbooking.pojo.Hotel_Photos_Object;
import com.hotelbooking.pojo.Rate;
import com.hotelbooking.pojo.Reservation;
import com.hotelbooking.pojo.Room;
import com.hotelbooking.pojo.RoomRates;
import com.hotelbooking.pojo.User;
```

@Controller

```
public class HomeController {
```

```
    @Autowired
    HotelDao hoteldao;
```

```
    @Autowired
    PhotosDao photosdao;
```

```
    @Autowired
    RoomDao roomdao;
```

```
    @Autowired
    UserDao userDao;
```

```
    private static final Logger logger = LoggerFactory.getLogger(HomeController.class);
```

```
    @RequestMapping(value = "/", method = RequestMethod.GET)
    public String home(Locale locale, Model model) throws Exception {
        return "login";
    }
```

```
    @RequestMapping(value = "/admin-dashboard.htm", method = RequestMethod.GET)
    public String adminhome(Locale locale, Model model) throws Exception {
        return "admin-dashboard";
    }
```

```
    @RequestMapping(value = "/bookHotel.htm*", method = RequestMethod.GET)
    private ModelAndView bookHotel(HttpServletRequest request) throws Exception {
```

```
        ModelAndView mv = new ModelAndView();
        SimpleDateFormat formatter = new SimpleDateFormat("yyyy-MM-dd");
```

```
        String hotel=request.getParameter("hotel");
```

```
String dateFrom=request.getParameter("dateFrom");//checkin
String dateTo=request.getParameter("dateTo");//checkout
String price=request.getParameter("hotelrate");//price
```

```
String roomid=request.getParameter("roomid");
Room rid=roomdao.getRoom(roomid);//roomid
```

```
Integer userid=(Integer) request.getSession().getAttribute("userid");
User uid=userDao.getUser(userid);//userid
```

```
System.out.println(rid);
System.out.println(request.getParameter("hotel"));
//System.out.println(request.getSession().getAttribute("userid"));
System.out.println(dateFrom);
System.out.println(uid.getFirst_name() + uid.getLast_name());
```

```
mv.addObject("price", price);
mv.addObject("dateFrom", dateFrom);
mv.addObject("dateTo", dateTo);
mv.addObject("hotel", hotel);
mv.addObject("rid", rid);
mv.addObject("roomtype", rid.getRoom_type());
mv.addObject("userid", uid);
mv.addObject("username", uid.getFirst_name() + uid.getLast_name());
mv.addObject("reserve", new Reseravtion());
mv.setViewName("roomselecion");
```

```
return mv;
```

```
}
```

```
@RequestMapping(value = "/searchresult.htm", method = RequestMethod.GET)
private ModelAndView booking(HttpServletRequest request, @ModelAttribute("reserve")
Reseravtion reserve,
        BindingResult result) {

    if (result.hasErrors()) {
        return new ModelAndView("home", "reserve", reserve);
    }

    try {
```

```

        System.out.print("NewBooking");

        //SimpleDateFormat formatter = new SimpleDateFormat("yyyy-MM-dd");
        String checkin=request.getParameter("dateFrom");

        String hotel=request.getParameter("hotel");
        String checkout=request.getParameter("dateTo");

        String roomid=request.getParameter("roomid");
        Room rid=roomdao.getRoom(roomid);//roomid

        Integer userid=(Integer) request.getSession().getAttribute("userid");
        User uid=userDao.getUser(userid);//userid

        reserve.setRoom_id(rid);
        reserve.setUser_id(uid);
        reserve.setCheckIn(checkin);
        reserve.setReservation_status("confirmed");
        reserve.setCheckOut(checkout);

        Reseravtion r=hoteldao.booking(reserve);
        request.getSession().setAttribute("reserveid", reserve.getReservation_id());
        ModelAndView mv=new ModelAndView();
        mv.addObject("reservationid", r.getReservation_id());
        mv.addObject("hotelname", hotel);
        mv.addObject("dateFrom", checkin);
        mv.addObject("dateTo", checkout);
        mv.setViewName("bookingconfirmed");
        return mv;

    } catch(Exception e) {
        System.out.println("Exception: " + e.getMessage());
        return new ModelAndView("error", "errorMessage", "error while login");
    }

}

@RequestMapping(value = "/search.htm", method = RequestMethod.GET)
private ModelAndView getSearchResult(HttpServletRequest request) throws Exception {
    System.out.println(request.getParameter("keywordHotel"));
    System.out.println(request.getParameter("keywordCity"));
    System.out.println(request.getParameter("dateFrom"));

```

```

SimpleDateFormat formatter = new SimpleDateFormat("yyyy-MM-dd");

//HttpSession session = (HttpSession) request.getSession();

String hotel = request.getParameter("keywordHotel");
String city = request.getParameter("keywordCity");
Date dateto = formatter.parse(request.getParameter("dateTo"));
Date datefrom = formatter.parse(request.getParameter("dateFrom"));
System.out.print(datefrom);
List<Object[]> rs= hoteldao.listSearch(hotel, city, datefrom, dateto);

//ModelAndView mv= new ModelAndView();

request.setAttribute("dateTo", dateto);
request.setAttribute("dateFrom", datefrom);

return new ModelAndView("search-Result","searchedHotel", rs) ;
    }
}

```

User Controller

```

package com.hotelbooking.controller;

import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpSession;
import javax.validation.Valid;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.beans.factory.annotation.Qualifier;
import org.springframework.stereotype.Controller;
import org.springframework.validation.BindingResult;
import org.springframework.web.bind.WebDataBinder;
import org.springframework.web.bind.annotation.InitBinder;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.SessionAttributes;
import org.springframework.web.servlet.ModelAndView;

import com.hotelbooking.dao.UserDao;
import com.hotelbooking.pojo.User;
import com.hotelbooking.validator.UserValidator;

```

```

@Controller
@SessionAttributes("user")
public class UserController {

    @Autowired
    UserDao userDao;

    @Autowired
    UserValidator validator;

    @InitBinder
    private void initBinder(WebDataBinder binder) {
        binder.setValidator(validator);
    }

    @RequestMapping(value = "/login.htm", method = RequestMethod.GET)
    private String showDashboard(){

        return "login";
    }

    @RequestMapping(value = "/userlogin.htm", method = RequestMethod.POST )
    private String loginUser(HttpServletRequest request) throws Exception {
        System.out.println("in login user1");
        HttpSession session = (HttpSession) request.getSession();
        System.out.println(request.getParameter("username"));
        System.out.println(request.getParameter("password"));
        System.out.println(request.getParameter("role"));
        try {

            System.out.print("loginUser 1");
            if(request.getParameter("role")!=null){

                User user = userDao.getCustomer(request.getParameter("username"),
request.getParameter("password"));
                if(user == null){
                    System.out.println("UserName/Password does not exist");
                    session.setAttribute("errorMessage", "UserName/Password
does not exist");

                    return "error";
                }

                session.setAttribute("userid", user.getUser_id());
                session.setAttribute("userfirstname", user.getFirst_name());
            }
        }
    }

```

```

        System.out.println(user);
        return "home";}
    else{
        System.out.print("loginUser else part 1");
        User user = userDao.getAdmin(request.getParameter("username"),
request.getParameter("password"));
        if(user == null){
            System.out.println("UserName/Password does not exist");
            session.setAttribute("errorMessage", "UserName/Password
does not exist");

            return "error";

        }
        session.setAttribute("userid", user.getUser_id());
        session.setAttribute("userfirstname", user.getFirst_name());

        return "admin-dashboard";

    }

} catch(Exception e) {
    System.out.println("Exception: " + e.getMessage());
    session.setAttribute("errorMessage", "error while login");
    return "error";
}

}

```

```

@RequestMapping(value = "/UserRegistration.htm", method = RequestMethod.GET)
private ModelAndView userRegistration(){

    return new ModelAndView("UserRegistration", "user", new User());

}

```

```

@RequestMapping(value = "/register.htm", method = RequestMethod.POST)
protected ModelAndView registerNewUser(HttpServletRequest request,
@ModelAttribute("user") User user, BindingResult result)
    throws Exception {
    UserValidator formValidation = new UserValidator();

    formValidation.validate(user, result);
    if (result.hasErrors()) {

```



```

        return new ModelAndView("UserRegistration", "user", user);
    }

    try {

        System.out.print("registerNewUser");

        User u = new User(user.getFirst_name(), user.getPhone_number(),
user.getEmail_Id(),
                                user.getLast_name(),user.getPassword(),
user.getUsername(),user.getRole());
        request.getSession().setAttribute("user",u);

        User us=userDao.register(u);
        if(user.getRole().equals("customer")){
            request.getSession().setAttribute("user", us);
            return new ModelAndView("home", "user", us);
        }
        else{
            request.getSession().setAttribute("user", us);
            return new ModelAndView("admin-dashboard", "user", us);
        }

    } catch (Exception e) {
        System.out.print("registerNewUser" + e);

        User u = new User();
        request.getSession().setAttribute("user",u);

        return new ModelAndView("home", "user", u);
    }
}
}

```

Room Controller

```
package com.hotelbooking.controller;
```

```

import java.awt.List;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.LinkedHashMap;
import java.util.Map;

```

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.validation.BindingResult;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.servlet.ModelAndView;
```

```
import com.hotelbooking.dao.HotelDao;
import com.hotelbooking.dao.RateDao;
import com.hotelbooking.dao.RoomDao;
import com.hotelbooking.pojo.Hotel;
import com.hotelbooking.pojo.Room;
```

```
@Controller
```

```
public class RoomController {
```

```
    @Autowired
```

```
    HotelDao hoteldao;
```

```
    @Autowired
```

```
    RoomDao roomdao;
```

```
    @Autowired
```

```
    RateDao ratedao;
```

```
    @RequestMapping(value = "/roomAdd.htm", method = RequestMethod.GET)
```

```
    private ModelAndView getAllHotel() throws Exception {
```

```
        /* List<String> roomType = new List<String>();
           roomType.add("Regular");
           roomType.add("Delux");
           roomType.add("Suite");
           */
```

```
        ModelAndView mv = new ModelAndView();
```

```
        mv.addObject("hotellist", hoteldao.list());
```

```
        mv.addObject("room", new Room());
```

```
        mv.setViewName("room-form");
```

```
        return mv;
```

```

    }

    @RequestMapping(value = "/addroom.htm", method = RequestMethod.POST)
    private String addRoom(@ModelAttribute("room") Room room, BindingResult result) throws
Exception {

        try {

            Hotel hotel =hoteldao.get(room.getHotel().getHotel_name());
            room.setHotel(hotel);
            roomdao.addRoom(room);

            return "admin-dashboard";

        } catch (Exception e) {
            System.out.print("registerNewUser" + e);
            return "error";
        }
    }
}

```