HOSTEL BOOKING SYSTEM

Project Report

Summer Training from Nobel Institute of Software Technology

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DECLARATION

I, **Arpit Maheshwari** hereby declare that this internship project titled **"Hostel Booking System"** is a record of original work done by me under the supervision and guidance of **Mr. Mahaveer Kushwaha sir.** I further certify that this project has not formed the basis for the award of the Degree/Diploma/Associate-ship/Fellowship or similar work to any candidate of any university and no part of this report is reproduced as it is from any other source without seeking permission.

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ABSTRACT

The Online Hostel Booking System helps in booking the seats in the hostels. It will be one of the important projects that will simplify the work of the hostelers in getting the seats booked in the hostels with great ease. Hostels are the part of the institutions which will help the students to stay here who are coming from far places. It will help the students in getting the seats in the hostels without any difficulty and will also help in maintaining transparency. It will help in simplifying life of everyone to acquire seats with great ease.

Hostels are very essential for the students who come from far places. The cost of the hostels must also be at reasonable cost. The students who want to book the seats in the hostels then they can login using the unique login id and the password. Once the seat is available then it can be booked by the student. The payment can be done only after the confirmation of the seat that is booked. The interface must be simple and easy to understand. This will be one of the projects that will help the hostel owners and hostelers to manage and book the seats of the hostel very easily. Hostel owners can also easily add their hostel and manage hostel booking in real time. Owners now need less staff and now their hostel has a reach to worldwide customers.

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INTRODUCTION

The Online Hostel Booking System helps in booking the seats in the hostels from home. It will be one of the important projects that will simplify the work of the hostel owners and hostelers in getting the seats booked in the hostels. It will help the students in getting the seats in the hostels without any difficulty and will also help in maintaining transparency.

The features that can be included in the hostel seat booking system are follows:

- Seat database management: The seats that are present in the particular hostels must be updated from time to time. This will help in maintaining the seats present in the hostels in a well-organized way.
- Simplify the work: This will also help in simplifying the work of the owners related to the seat booking in the hostels.
- Price: The cost of the room for a person must also be mentioned properly. There should not be any discrimination in this.
- Transparency: This will help to maintain transparency between the students and the college.

Purpose of the Project

Importance for hostelers

- Search from a number of hostels.
- Compare them with location, facilities and prices.
- When satisfied book hostel's room from home at best prices.
- Get exciting offers every hour and with every booking.
- Safe and secure way of payment
- Get instantly confirmation receipt.
- Review hostels so that other hosteler know about that hostels more precisely and Hostel Owners can improve their hostel.

Importance for hostel owner

- Add your hostels here so that hosteler from worldwide know about it.
- Hosteler can book your hostel's room from home.

- Instantly know about your Hostel's Room Booking and get paid for it.
- Your hostel will become more popular and more technical.
- You can update and remove hostel's room.
- You can make your particular hostel's room unavailable also, in case of booking from other source or in any other case.
- Read reviews of various hostelers to improve your hostel facilities and make them happy for their next visit to your hostel.

SCOPE

- Scope of this online system is in every hostel modular business or hostel systems to manage data & system as dynamically by web access.
- The administrative persons can generate monthly reports by login to manage hostel scenario and future possibilities as access would be easy.
- In Future, we can also enhance business possibilities in the current market area.
- It can enlarge flexibilities in the existing system with web-based user interactive interface.
- In future, this system can be extended up to accept the online fee payments as with source of net banking and also can do analysis on the hosteller reviews and payment records.
- It can also serve the feedback system to each visitor or guest for rating and review of features of the hostel.

TECHNOLOGY AND LITERATURE REVIEW

- The web-based user interface has certain limits to deal with speed and immigration performance of the web site.
- The main modular part was belonging to the J2EE technologies and MySQL database design & utilities.
- Here, J2EE supports multi user login with multiple profiles access and interactive featured controls to gain flexibility in the interface creation and management of controls.
- So, some interactive features can be directly visualized by the user at the portal.
- Literature reviews directly subsets the updating of the user interface and can currently access to the database.

- The current system has the offline record keeping system which is managed by the rector of the hostel.
- It ensures the more complexity in the management of the system and also there are number of manual forms to be filled for each individual hosteller.
- It also can’t support the feedback review system on the go. So, feedback has to be maintained manually using the paper work.

SYSTEM DESIGN

Software Configuration

Technology used are

- Front-end :- HTML,CSS and Javascript
- Back-end :- Java and MySQL

The tools being used in the development process are:

- Java Development Kit 8.0.2
- PhpMyAdmin as the Database System.
- Netbeans IDE 8.2

Types of Users

There are three types of users

- Admin
- Hostel Owner
- Hosteler

Activities of Users

- Hosteler Registration
- Hosteler Login
- Hosteler Profile Update
- Hosteler Profile Removal
- Hosteler can Search in Hostels (by location, facilities, Room type)
- Hosteler can Compare Hostels
- Hosteler can Select Room type and Book Hostel
- Hosteler Get Confirmation of booking as Receipt
- Hosteler give Reviews
- Hosteler can Cancel Booking
- Hostel Owner Registration
- Hostel Owner Login

- Hostel Owner Profile Update
- Hostel Owner profile Removal
- Hostel Owner List a new Hostel (with Room type, Location, facilities)
- Hostel Owner View Their Hostel Bookings
- Hostel Owner can See Reviews of Own Hostel for Improvement
- Admin Login
- Admin Password change
- Admin can View All hostelers
- Admin can View all Hostels
- Admin can View all Hostel Owner
- Admin can Enable/Disable Hostel Owner/hosteler/Hostel
- Admin can Register New Admin
- Admin can provide Offers

Database Design

Entities

1.Admin

2.HostelOwner

3.hostler

4.Hostel

5.Roomtype

6.Room

7.Facilities

Relationships

1.Booking(Room-Hosteler)(M-M)

2.Have(Facilities-Roomtype)(M-M)

Database hosteldb

Table structure for table admin

Column	Type	Null	Default
adminid	int(11)	No	
adminemail	varchar(50)	No	
adminname	varchar(50)	No	
gender	varchar(50)	No	
dob	Date	No	
contact	varchar(10)	No	
password	varchar(50)	No	

Table structure for table booking

Column	Type	Null	Default
bookingid	int(11)	No	
roomid	int(11)	No	
hosteleremail	varchar(50)	No	
bookingdate	date	No	
check_in	date	No	
check_out	date	No	
payment	varchar(50)	No	

Table structure for table facility

Column	Type	Null	Default
facilityid	int(11)	No	
facilityname	varchar(50)	No	
facilitydetails	text	No	
hostelid	int(11)	No	

Table structure for table have

Column	Type	Null	Default
facilityid	int(11)	No	
roomtypeid	int(11)	No	

Table structure for table hostel

Column	Type	Null	Default
hostelid	int(11)	No	
owneremail	varchar(50)	No	

hostelname	varchar(50)	No
description	text	No
location	varchar(50)	No
contact	varchar(10)	No

Table structure for table hosteler

Column	Type	Null	Default
hosteleremail	varchar(50)	No	
hostelername	varchar(50)	No	
gender	varchar(50)	No	
dob	date	No	
contact	varchar(10)	No	
password	varchar(50)	No	

Table structure for table owner

Column	Type	Null	Default
owneremail	varchar(50)	No	
ownername	varchar(50)	No	
gender	varchar(50)	No	
dob	date	No	
contact	varchar(10)	No	
password	varchar(50)	No	

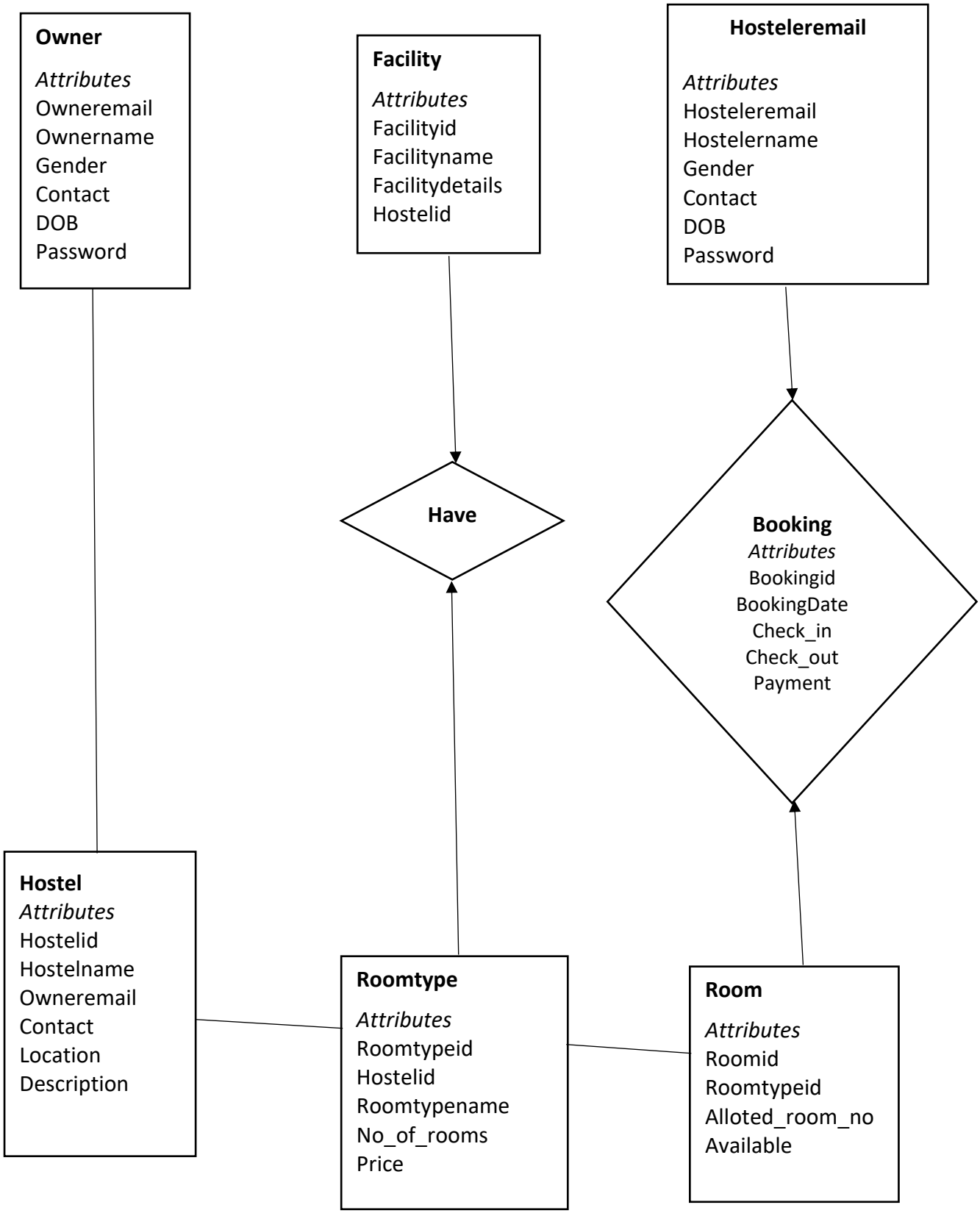
Table structure for table room

Column	Type	Null	Default
roomid	int(11)	No	
roomtypeid	int(11)	No	
alloted_room_no	int(11)	No	
available	int(11)	No	

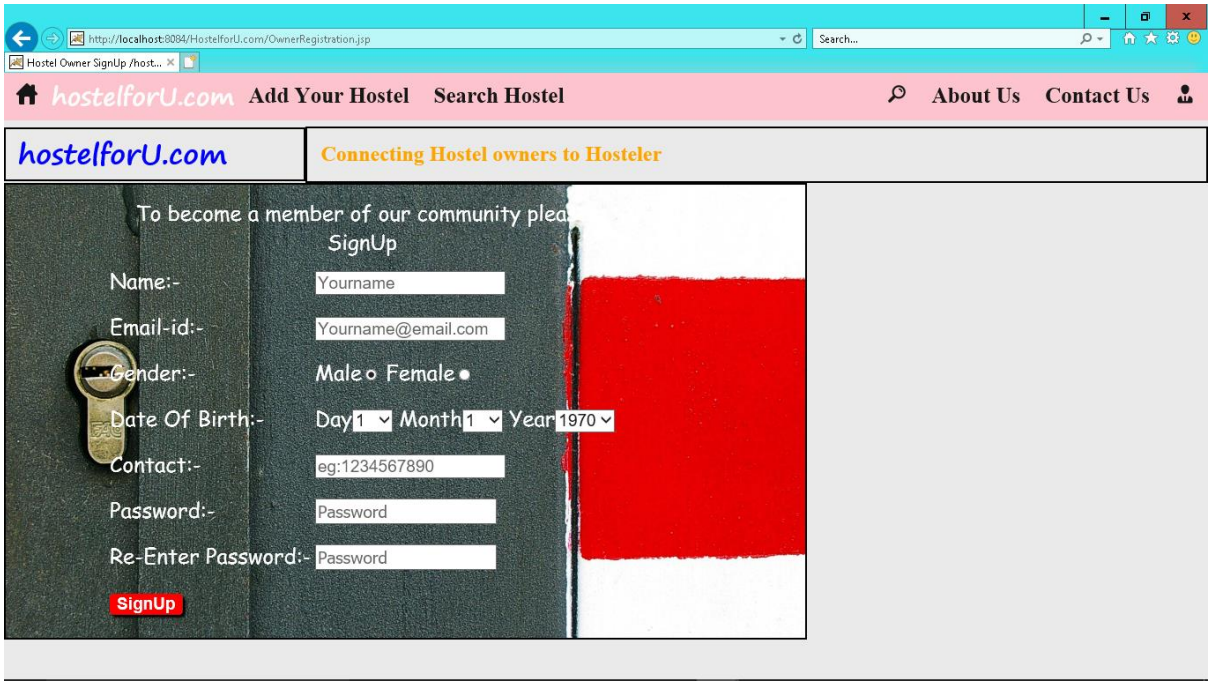
Table structure for table roomtype

Column	Type	Null	Default
roomtypeid	int(11)	No	
hostelid	int(11)	No	
roomtypename	varchar(50)	No	
no_of_rooms	int(11)	No	
price	int(11)	No	

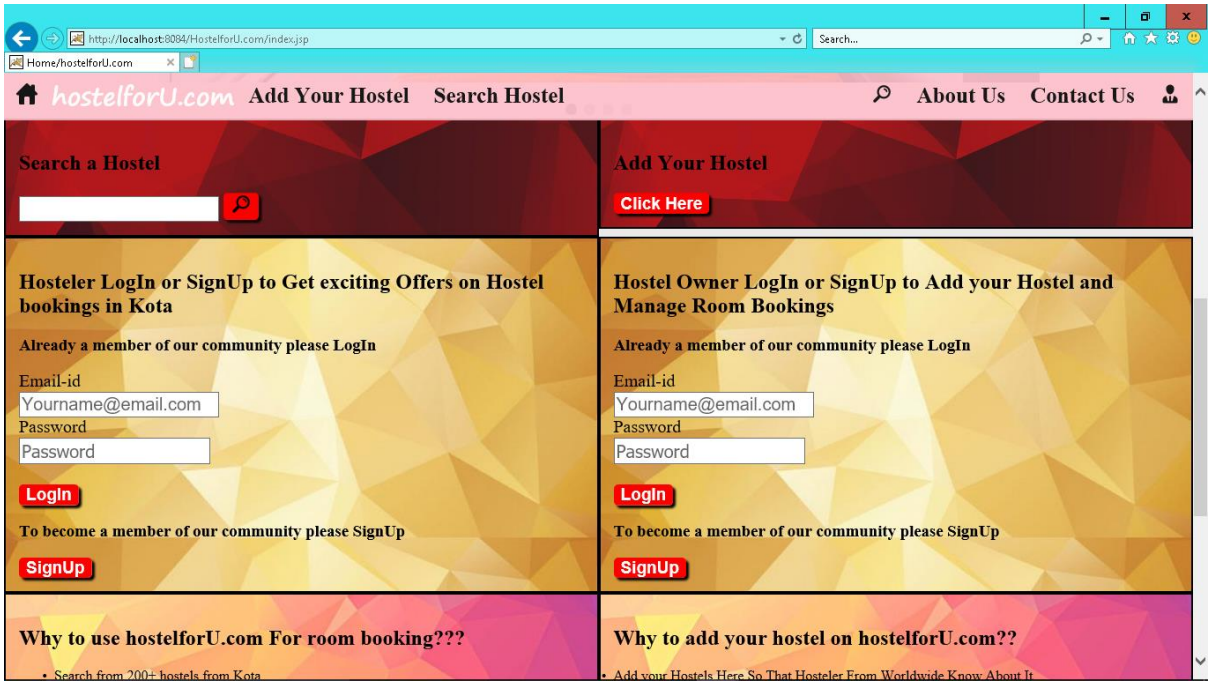
E-R Diagram


Owner
Attributes
Owneremail
Ownername
Gender
Contact
DOB
Password
Facility
Attributes
Facilityid
Facilityname
Facilitydetails
Hostelid
Hosteleremail
Attributes
Hosteleremail
Hostelername
Gender
Contact
DOB
Password
Have
Booking
Attributes
Bookingid
BookingDate
Check_in
Check_out
Payment
Hostel
Attributes
Hostelid
Hostelname
Owneremail
Contact
Location
Description
Roomtype
Attributes
Roomtypeid
Hostelid
Roomtypename
No_of_rooms
Price
Room
Attributes
Roomid
Roomtypeid
Alloted_room_no
Available

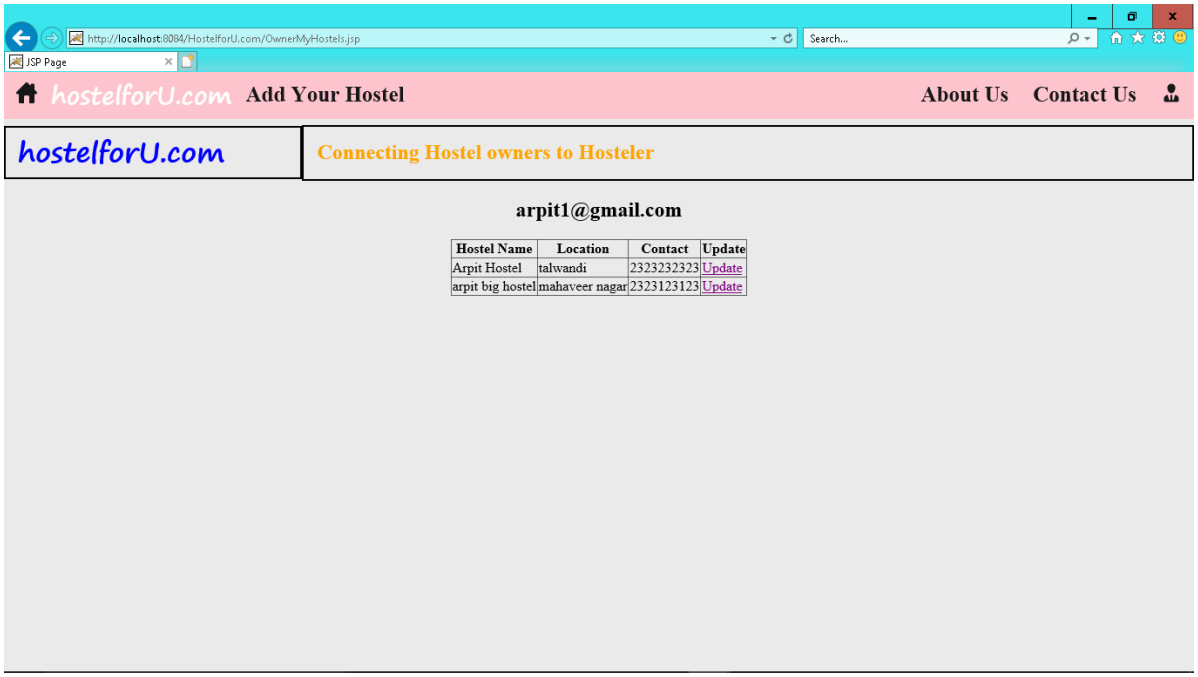
Screenshots



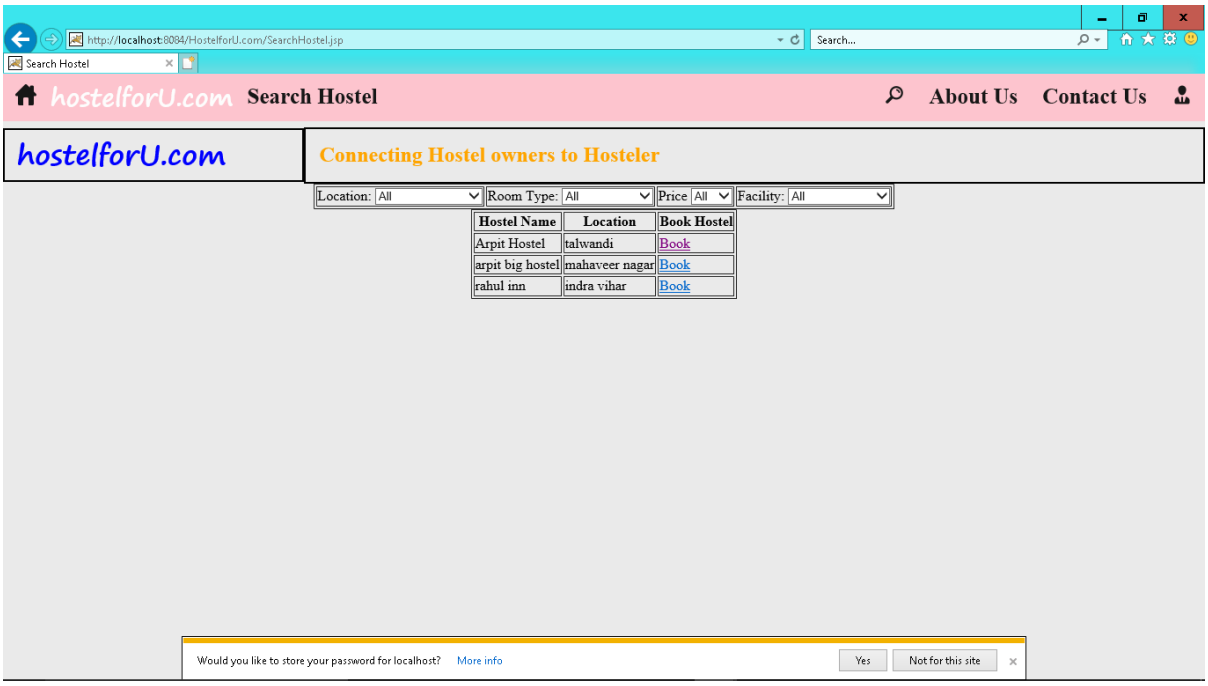
Registration Page



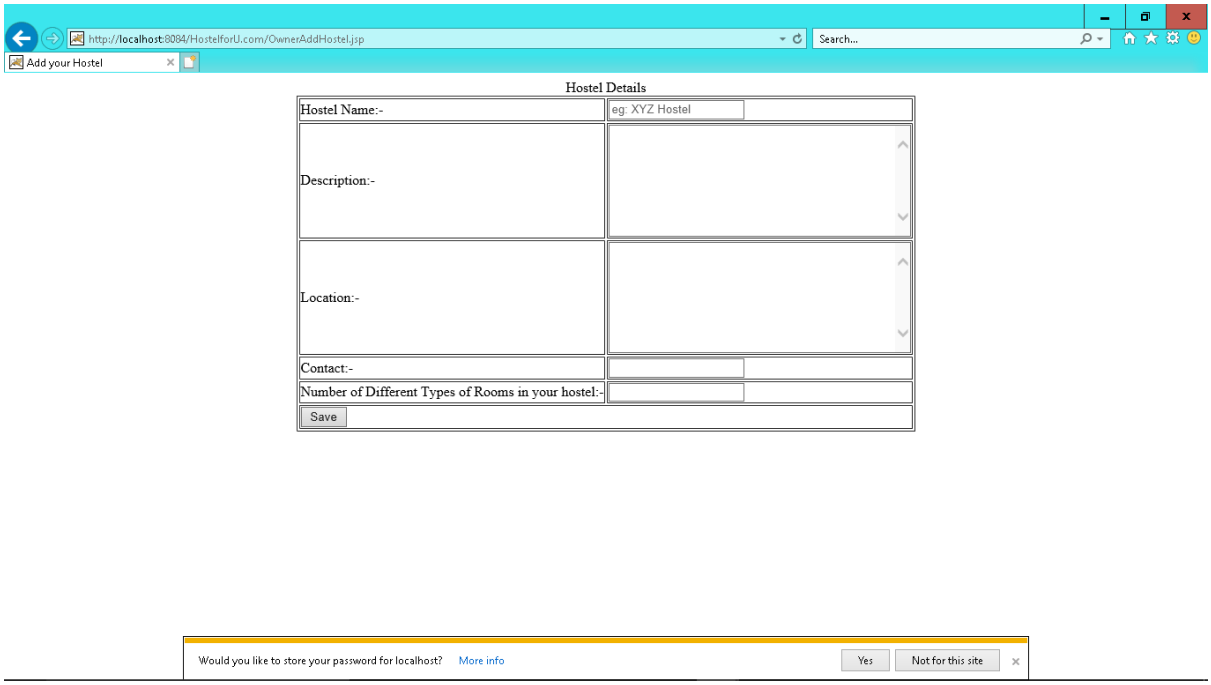
Index Page



Your Hostel Page



Search Hostel Page



Add Your Hostel Page

Conclusion

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It has been a great pleasure for me to work on this exciting and challenging project. This project proved good for me as it provided practical knowledge of not only programming in J2EE and web-based application and not only some extent Windows Application and SQL Server, but also about all handling procedure related with “Hostel Management System”. It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future. This will provide better opportunities and guidance in future in developing projects independently.