**Final Project Assignment:**

**Online Hotel Reservation**

**Team: Zeke**

In this assignment the team is required to implement an online hotel reservation. Requirements are as below:

1. An admin account has following functionalities:
2. (web) Able to add, edit, or delete rooms and their specifications
3. (web) Able to gets various reports about the reserved rooms for specific range of dates, floor, and room price, etc.
4. A swing JAVA desktop application with above functionalities.
5. User account:
6. Able to book a room
7. Able to change the booking
8. Able to request especial services through a text request
9. Guest account(without login):
10. Able to browse the room availability
11. Able to see room specifications
12. Able to see all public information such as “contact us”, photo gallery, map, and so on.

Implements all three parts into the project. User section reuses functions from the admin section, and having changes to make them adapted to user’s features. The main programming curves was guest section, admin section and the desktop application.

Technologies: JavaEE & JPA persistence, JSP, Java Servlet, JSTL, Oracle RDBMS, Bootstrap

**Brief Introductions**

Guest section includes room preview, photo gallery, services preview, public information and map preview.

Admin section includes full management to rooms, users, user profile, services provided, room bookings and service pending. A function for getting various reports about the reserved rooms for specific range of dates, floor, and room price is also provided.

User section reuse user profile, room booking and service pending from admin section. Code got optimized to fit the user section needs. For example, admin section usually retrieve all information from table, while user section only retrieve information related to the specific user.

Room preview: List all rooms in one page with basic information showing. Could be opened each link to a more detailed page for a specific room.

Photo gallery: Display all photos on the server.

Public information with map: A page with information about introduction, developers one line comment and the google map showing the Humber College in the middle.

Rooms: List of all the rooms in the database, have the ability to add, edit and delete.

Users: List of all the registered users in the database, have the ability to add, edit and delete.

User profile: With text boxes for changing user’s information. Also implemented for user register.

Services provided: List of all the services in the database, have the ability to add, edit and delete.

Room bookings: List of bookings, available to change the booking detail after press the edit with a link.

Service pending: List of services that appends to the rooms. Can change each of the service with the edit button pressed.

**Improvements could be applied**

Interface could be improved. Code can be more efficient and more reusability. Expected in future:

Service Oriented Architecture

Security improving

Online notification system

Social media integration

User experience enhancing

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| **Project Name** | Online Hotel Reservation |
| **Description** | Enable basic online hotel reservation functions for different kinds of users (admin, general users and guests) with various authorities. |
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| **Date** | Apr, 17 2016 |

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**Project Successes**

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| **Name** | **Description** |
| Admin functions | Admin section of the project implements the management for users, rooms, user bookings, services, pending services to the room and getting report on reservation. |
| User functions | User section of the project implements the management for user profile, user bookings, pending services to the room |
| Guest functions | Brows rooms with information, preview rooms in gallery, reach the public information and map, free to register, login and logout |

**Unexpected Events**

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| **Description** | **Impact** | **Actions Taken** |
| DB: “closed connection” problem | Apr, 15-Apr, 17 | Reconnect the database through NetBeans service window |

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