Management of Railway Rest Houses and Holiday Homes

Abstract—The objective is to build for tourists/railway officers and staff, an online system (a website) which is easy to use and helps in the process of booking and allotment of railway rest houses and holiday homes. We plan to create a centralised automated online facility for bookings of railway rest houses and holiday homes. The website will have personal information of the staff and the officers, using which they will be able to create a login ID, along with details of all the rest houses. At present, there is no uniform policy in the practice for advanced booking. Option of one month advance booking for rest houses and two months for holiday homes may be provided for in the software. The railway officers can login with their login ids and passwords into the system and can book the rest house or holiday house according to the availability. After booking, they can check the status of the rooms on their respective dashboards. There is also a system for gateway of online payments. The paper also aims to give a brief description about the Management of railway rest houses and holiday homes project.

I. INTRODUCTION

A. Railway Rest houses and Holiday Homes Management System

The idea behind the management of railway rest houses and holiday homes system is an online booking system with automated allotment facility for a specified percentage of rooms for the Staff/Supervisors rest houses, Holiday Homes (Officers/Staff), Officers Rest House. The automated online allotment system may consider the criteria like personal information of the staff/officers: Name, Designation, Grade Pay, Grade, Mobile number, E-mail Id etc. be linked. This will generate a password and username. Ideally AADHAR Number may be used the line Railway may be asked to verify and generate username and password. The website to be developed may have the provision for feeding and storage of above details, to be fed by the users.

Rest house detail and its inventory includes location of rest house (Zone, Division, state, District or place, Address) type of facility (Staff/Supervisor rest house, Holiday Home, Community Hall) type of rooms (Double Bed, Multiple Beds, Dormitories, Suite with AC or Non AC Classification), location on Google map with photographs may be provided. There will be a Super Admin at Board level allotment.

Online payment facility and uniform room rent policy: Following room rents have been approved for uniform implementation across IR, depending upon the city and type of the room. The payment for the rest house shall be made online for all rooms with automatic allotment. Cancellation and modification provide the officials to modify the request and also to cancel the request.

B. Current Working System and its Drawbacks:

At present, the allocation of accommodation in Railway Rest Houses, Holidays Homes is done manually. The request is to be given in writing and there is no mechanism to advise the applicant about status of booking of rooms. This causes uncertainty and difficulty in planning one’s programme. An online system of submitting request and allocation of rooms is required. At present, there is no uniform policy in practice across IR for advance booking of railway rest houses and holiday homes.

C. Benefits of Proposed Railway Rest houses and Holiday Homes Management System:

The project Management of railway rest houses and holiday homes is the website which is used to make the complicated process Management of railway rest houses and holiday homes of as simple as possible using Structured & Modular technique & Menu oriented interface. The project is designed in such a way that user may not have any difficulty in using this package & further expansion is possible without much effort. The main purpose of this project is to perform each Employee’s activity in computerized way rather than manually which is time consuming.

This software package can be readily used by non-programming personal avoiding human handled chance of error. This project is used by two types of users:

i. Administrator (management of the rest houses)
ii. Online Users

Online users can see the required information related to the rest houses and holiday homes.

Administrator can maintain daily updates in the rest houses records. Administrator is must be an authorized user.

He can further change the password. There is the facility for password recovery, logout etc.

The main aim of the entire activity is to automate the process of day to day activities of Hotel like Room activities, Admission of a New Customer, Assign a room
according to customer’s demand, checkout of a computer and releasing the room and finally compute the bill etc.

II. WORKFLOW

In the above figure 2.1 the staff or officers can apply for booking of rest houses or holiday homes. The request will go to the admin where admin can view booking status and can accept/reject the booking, after accepting the request the booking confirmation will be sent to the staff or officers.

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III. MODULES

A. Admin Module

Admin module in online management system of railway rest houses and holiday homes allows system administrator to set up back-end of the system and perform basic system configuration, mainly definition of predefined drop-down fields, definition of classes, time schedule, etc. All the new packages and promo bundles as well as new prices and price types for classes, new subjects offered, etc. are defined here.

Part of the admin set up is user management which allows users to be set up with definable access level/roles, access to a single or multiple branches. Admin can also set up overall system security settings such as required password strength, inactive session time out, inactive accounts lock out, password reset period, etc. Important part of security is audit log – any changes in the system are logged here – so it’s easy to check who changed/removed what, at what time, what was the original value and what is the new value set.

The Functionalities of the Administrator is:
1. The administrator should login into the system with unique his/her password and username.
2. If the username and password is validated then he can gain access to the system.
3. View the available rooms can update and delete the rooms.
4. Insert /View the Availability and Price.
5. Post the links. Adding the links to the various rest houses and as well view the links.
6. Blocks the user and view the status of the users.

The Administrator can do the following actions:
1. Login
2. Change Password
3. Admin Functionalities
   a. View rest houses
   b. Post Special details
   c. Edit /Delete available rooms
   d. Upload Images.
4. Logout

B. User Module:

The user module in online system of railway rest houses and holiday homes management system allows users to register, log in, and log out.

Users benefit from being able to sign on because this associates content they create with their account and allows various permissions to be set for their roles.

The user module supports user roles, which can be set up with fine-grained permissions allowing each role to do only
what the administrator permits. Each user is assigned one or more roles. By default there are three roles: anonymous (a user who has not logged in) and authenticated (a user who is registered), and administrator (a signed in user who will be assigned site administrator permissions).

The Functionalities of the User is:

1. A new User can register with the application by entering his appropriate details.
2. The User should login into the system with unique his/her password and username.
3. If the username and password is validated then he can gain access to the system.
4. The User can change his password. To change the password, it should ask for the old password, new password and confirm new password.
5. View the Categories.

The User can do the following actions:

1. Register
2. Login
3. Change Password
4. User Functionalities
   a. Advanced Search
   b. Booking
   c. Payment
5. Logout

IV. GETTING STARTED

This section describes the snapshots of the working module in developed product. The application is developed through HTML, CSS, JavaScript and JSP at the server side. The database for the application is MySQL.
Fig. 3: Admin Dashboard

Fig. 4: Booking (User Panel)

Fig. 5: Rest houses Selection (User Panel)

Fig. 6: Holiday Homes Selection (User Panel)
V. ADVANTAGES

These are the following advantages of the website:-

- The application is eliminating almost complete usage of pen and paper.
- The application provides the user with easy availability and status checking.
- The application provides actual pictures of the rest houses and holiday homes for better selection and booking the same.

VI. CONCLUSION

The proposed system allows the railway officers and staff members to see the availability of rest houses or holiday homes and can book one according to their need. Railway officers and staff members to do the same just require to Login to the system with their respective Login IDs and passwords.

After Login they can search for the availability of rest houses or holiday homes by simply clicking on the drop down list under cities. After that officers or staff members have to proceed for payment to confirm their booking. The railway officers and staff can check their status on their respective dashboards.

In future, we can add the feature of Google maps in the system to make it more effective and convenient for the system users.

REFERENCES
