

DVenue: A Web Application For An Online Venue Booking

1shruti N. Ghule, 2harish M. Mohurle, 3akshay P. Shegoankar,

4zeba Parvin Abdual Saleem, 5 Pradhnya S. Borkar

1Student in Priyadarshini J. L. College of Engineering, Nagpur, India

2Student in Priyadarshini J. L. College of Engineering, Nagpur, India

3Student in Priyadarshini J. L. College of Engineering, Nagpur, India

4 Student in Priyadarshini J. L. College of Engineering, Nagpur, India

5Assistant Professor in Priyadarshini J.L. College of Engineering, Nagpur, India

Abstract—This E-commerce (E commerce) is the buying and selling of goods and services through wireless handheld devices or from the websites. E-commerce provides lot of services like Hotel Booking, Only Shopping, ticketing booking, Online banking, Online auctions and so on. This represents an incredible opportunity to enable E-Commerce, as a universal platform for online commerce applications. For such applications, we normally want to choose the best venues, hotel in prime locations, with modern facilities, clean environment and affordable rates.

This can be time consuming and sometimes costly when doing this on our own or using human agents. So based on this we here propose a web application Venue Booking System. The application can be use to perform venue search and booking activities that can improve the speed of the search and reduce cost significantly. This application helps to reduce the manual work which people done by visiting different venues, booking venues as per their requirements.

Keywords—E-Commerce, VenueBooking.

I. Introduction

Internet has taken the world by storm and has made its presence in almost all spheres like education , commerce, finance etc. With the internet reaching the lowest of the lowest it has led to surge in online purchasing of product , bill payments , entertainment , tickets booking etc. Online stores have gained edge over the conventional stores and markets and people are getting more and more inclined to online shopping. People have developed a state of mind where they are giving more preference to the online availability of things or commodity instead of the conventional purchase habits. E-Commerce based websites have turned to be immensely popular and such websites have grown exponentially over the years. The venue or hotel Industry is one of the largest and most profitable industries in most countries. This industry has a major bearing in pushing the economy in positive directions in both the developed as well as developing countries. Spending habits of people have changed a lot and there has been a sea change in the way people are celebrating their events or functions . People have developed liking for the online contents and are no more afraid to venture in the internet market, instead a non -availability of the commodity on the internet is now turning into a disadvantage

People are always looking around when vacationing for the cheapest venues for celebration's and arrange bookings in advance to guarantee their stay for the period of their celebration. However these activities generally require individuals to do the bulk of the search and booking manually. This is not only time consuming exercise, but can be frustrating and costly as well. The users are required to directly contact the venue provider. The venue provider is armed with information of only his venue and if the venue is not okay to the customer he then moves out for another venue. Similarly apart from booking venue the customer may also need to get services like the decoration of hall, orchestra, photographer etc. but they may not be available with the venue provider. In such a case the consumer may need to contact the third party to get these services and may end up paying more for such services.

Some venue providers have their individual web interface where they disseminate the information ,but if the customer is not satisfied with the information or the facilities then he need to move on to the website of another venue provider

The objective of the proposed system is to provide a web interface which provides the information of available venues for functions, parties, weddings, meetings etc.. A user can enter into a single system for reservation which provides availability and profile of different venues along with the various services available at each of the venue .The customer will be in a position to compare the venues on the basis of various parameters like cost,accommodation, electricity, water etc. The customer can also view the information

provided and reads the reviews posted by previous customers, which can help him to take an informed decision as per his requirements.

II. Literature Survey

“LARS: A Location-Aware Recommender System” published by Justin J. Levandoski, Mohamed Sarwat, Ahmed Eldawy, Mohamed F. Mokbel contains a position alert recommender structure that uses position-based ratings to generate references. LARS achieves Customer rating positions through user partitioning, a technique that influences recommendations with ratings spatially close to querying users in a manner that maximizes system scalability while not sacrificing recommendation quality [1].

“Position Detection and Tracking System” authored by Mahesh Kadibagil, and Dr. H S Guruprasad proposed a Self-directed location recognition and tracking method which enhances the correctness of finding friends and family member’s locations by using GPS and typical web technology. This design includes a mobile client, a repository, a web client and a map service. The mobile user is used to discover location and conduct a notification SMS to user when his/her friends or family members come nearby the user’s zone of path. This location material can be sent to the server and the same information can be achieved and observed using the web consumer by other customers[2].

In [3] the author conveysthat with the hasty improvement of Internet, people's day-to-day life has basically been attached from the Internet. After the Internet, without resolution, whether entities or industries, both clients and industrialists, are made on the network of expectation, this new expectation is to get through the network of the greatest things the inexpensive, most practical to find the fastest information, the most money-making products to sell up. As people's lives are getting better, it comes with many lifestyle changes. As the film are still the same and has not changed predilections and as more and more film are churned out more and more people are viewing it and more and more people are queuing.

In [4] the author wants to about Position based Services which offers many benefits to the mobile consumers to recover the information about their current position and manner that data to get more useful information near to their position. With the help of GPS in phones and through Net Services using GPRS, Position based Facilities can be fulfilled on Android based smart phones to provide these value-added services like handset profiling, scheduling alarms. Position based services are a general class of computer program level services used to include specific controls for position and time data as control features in computer programs

After carrying on with the literature survey we come to a conclusion that the current booking systems are manual in nature, and are infested with the problem of issuing booking requests of customers. All the necessary booking stuffs are being done in hard copy. So it becomes much difficult for staffs to keep the records updated all the time. As for example, if the customers need to change the check in date it become difficult for them to find out the customers booking details for updating as there are so many customers booking records. Again, regarding current system customers cannot give feedback online and also staff cannot reply to them promptly.

III. Requirement Analysis

The following are the Functional Requirements for Venue Booking System.

- The system should support customers booking and able to modify them
- Customers can search based on address, location, category
- When a customer search for venues the search must contain the detailed information (Address, Ratings, and Price) and also its availability within choosing check in and check out date.
- Staffs should be able to edit customers booking information (cancelling booking). Customers should be able to book online and pay with credit or debit card.
- The system must send booking confirmation email after successful payment.
- Customers can write reviews about venues and also rate them.
- Customers should be able to check their booking status from their individual account.
- Customers can send feedback or call the company for booking purposes.
- Customers can enjoy referral discounts.

IV. Proposed System

The main aim of the proposed concept is to develop a web application that will allow the user to search and book the venue. The application should be able to provide a platform for venues providers to showcase their services. There should be the options for disbursing auto discount for existing customers. The application should provide details of all booked venues with dates and user can query if they want to. The proposed system will be implanted as a web based application on J2EE platform of Java.

This application will consists of following modules.

- Admin
The admin module consist login, add, update category functionality using Category DB and Admin DB implementation classes.
- Booking
The booking module will consists of booking functionality like add, update, delete using Booking DB and Booking Service. This module will also access discount db for checking the discount at the time of booking.
- RatingReview
The rating review module will handle the ratings and review given by user. It will consists a service and database implementation class.
- Category
Category module will show all the categories from admin module which has authority only to admin if a new category will be added or not. This categories can be used by the venue owner at the time when he / she is going to registered his / her venue.
- Discount
This module will handle the functionality related with discount. The discount module mange the discount set by the owner.
- Gateway
This is the dummy implementation of gateway. At the time of booking when user click on pay button will be add any entry in this database with venue owner id.
- Messages
This will used for showing and storing the inquiry messages. Each inquiry send by user to venue owner will saved using this module. It will consists of implementation class only
- User
The user module will provide functionality for signup and login etc. This will consists of services and implementation class.
- Venue
The venue module will used for showing and managing the venues. This module consists of services, implementation class. All the venue registration, retrieving, updating and adding images etc. will perfume this module.
- DAO
Data access object will used for managing the database connectivity. This module utilized JDBC functionality for establishing the connection with specified database.

V. Results

The following snapshots shows the various modules of Dvenue.

The screenshot shows a web form for registering a new venue. The form is organized as follows:

- Venue Name:** A text input field.
- Latitude:** A text input field.
- Address:** A text input field.
- Longitude:** A text input field.
- Services:** A large text area for entering details.
- Cost:** A text input field.
- Capacity:** A text input field.
- Buttons:** A blue 'CATEGORIES' button, a 'Select Image' section containing a 'Choose Files' button and the text 'No file chosen', and 'SAVE' and 'CLOSE' buttons at the bottom right.

Figure 1 New Venue Registration

Above fig1 shows how the venue owner can registered his / her venue to the Dvenue website. Venue owner must be create his / her account before registering the venue. After that he can create a new venue by providing his/ her venue name, latitude, longitude, address, services, cost, capacity, photos and category of venue.



Figure 2 Venue Booking list

Figure 2 implies bookings of the particular venue by person name and date of booking.

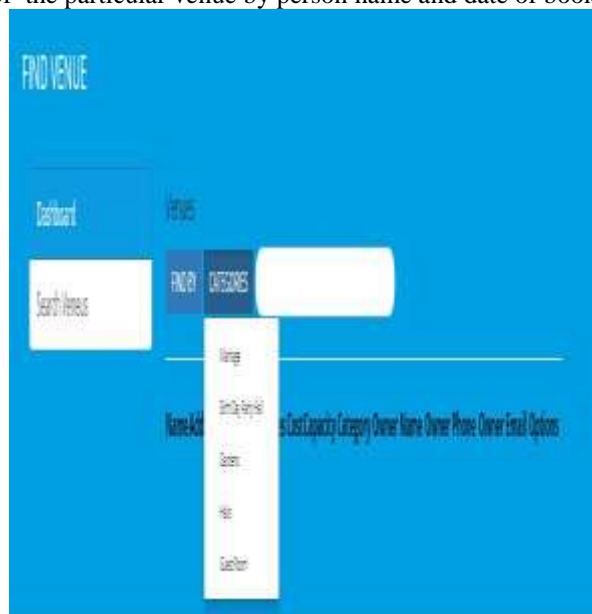


Figure 3 Venue Search

Above fig 3 shows that the user can search venues by its name, address, latitude and longitude also by category.



Figure 4 Venue Search Result

Fig 4 shows the venue searched by user. He/ she can view the gallery, ratings, venue owner's details etc. But without sign up user cannot book the venue.

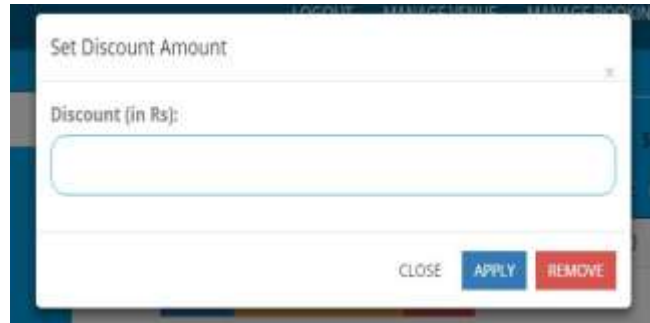


Figure 5 Venues discount

This fig 5 shows that if there is existing user of that particular venue the he / she can get discount which is set by the owner.



Fig 6 Dvenue Owner's Account

Above fig 6 shows venue owner's account which contain bookings of his / her venue also it has inquiries of user for that venue.



Figure 7 Venues Rating and review

Fig 7 shows that the user can give reviews and rating to the venue after his / her event get finished.

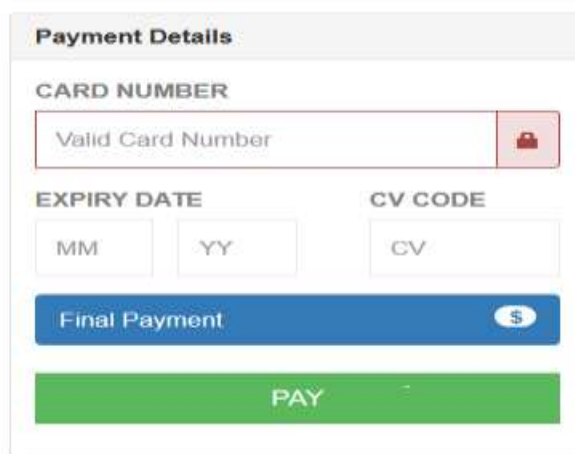


Fig 8 Payment Details

Above fig 8 shows the online payment transfer to the owner's account.

Thus we have been able to design a venue booking system and have been able to carry with the proposed implementation as specified above. The system is online and arms the stakeholders with important information regarding the venue which helps them out to view and decide the venue right from the comfort of them.

VI. Conclusion:

In this paper, the various implementation modules of Venue Booking System has been discussed which will help the users to plan their venue reservations for functions, parties, weddings, meetings etc., also to eliminate the troubles of offline bookings. The users can enter into a single site which provides vacancies and profile of different venues.

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