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ONLINE MOVIE TICKET BOOKING SYSTEM USING C++

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ABSTRACT

This project is aimed at developing an online ticket reservation system for booking a movie. The Ticket Reservation System is an Internet based application that can be accessed throughout the Net and can be accessed by anyone who has a net connection. This application will automate the reservation of tickets. Watching movies with family and friends in theaters is one of the best medium of entertainment after having a hectic schedule. But all this excitement vanishes after standing in hours in long queues to get tickets booked. The website provides complete information regarding currently running movies on all the screens with details of show timings, available seats and fare charges of different classes. Seats can be reserved for different classes as well for same show and screen also. Ticket reservations are done using credit card and debit cards and can be cancelled if needed. Our online tickets reservation system is one of the best opportunities for those who cannot afford enough time to get their tickets reserved standing in long queues. People can book tickets online at any time of day or night. Our reservation system also provides option to cancel the tickets which are reserved previously.

Keywords: *Databases, Network, Middleware, Electronic Ticketing Reservation,*

I. INTRODUCTION

Online movie ticket booking system is based on a concept of recording and booking customer's movie ticket details. Here the user can perform all the tasks like booking a movie show, receiving tickets, and card registration and view all movie show details. There's no login system for this project. This project contains fewer features but the essentials ones.Talking about the features of the Simple Movie Ticket Booking System, a user can select any movie provided in the list. After selecting a show, one has to select timings, then the system asks for personal information which include Name, contact number. There are two types of seat class i.e. Normal class and Gold Class. For certain purpose, one can also make payment using the card. He/she has to provide card number, expiry date, and CVV. After that, the system automatically displays the final outcome which is the user's bill. For the system, the user can also register DTCard from the system. This project uses classes and file handling features of C++. In order to store all the user's data, an external file (DAT file) is created by the system, so every time we get into the system we can operate with the existing records. Movie ticket booking System is developed using C++ Programming Language and different variables, strings have been used for the development of it.

II. LITERATURE SURVEY

Banking Management System
Authors: Liam Jack and Rose Leslie

Bank Management System is based on a concept of recording customer's account details. Here the user can perform all the tasks like creating an account, deposit amount, withdraw amount, check balance, view all account holders detail, close an account and modify an account. There's no login system for this project. All the main features for banking system are set in this project.Talking about the features of the Bank Management System, a user can create an account by providing the name of the account holder, account number, select amount type whether its Saving account or Current account and providing an initial amount. Then the user can also deposit and withdraw money just by providing his/her account, then the system displays his/her profile and entering an amount. For certain purpose, he/she can also check for the balance inquiry which displays the account holder's name with account number type and amount. He/she can also check for all the account holder's list. Another feature is that the user can also close

their account by providing their account number and he/she can modify their account detail and type if they want to. [1]

Police Station Management System
Authors: Harry William and Gen Zack
Police Station Management System is based on the concept of managing criminal records. Before stepping into the main menu a user has to pass through a login system to get access, then the user can manage criminal records by adding, updating, removing, viewing and searching for details. This mini project contains limited features, but the essential one. Talking about the features of the Police Station management system, the user can add various information of the criminals. For that, the user has to provide convict's id, name, age, gender, height, weight, crime, face details, conviction etc. Apart from this, the user can view/check a list of the records, search, modify and remove records too. The user just has to provide convict id in order to search for a criminal's record. The system creates an external file to store the user's data permanently. This program mainly focuses on CRUD with searching function. Police Station Management system is developed using C++ Programming Language and different variables, strings have been used for the development of it. Police Station Management System in C++ Programming with source code is free to download. Use for educational purposes only! This project provides the simplest system for easy management of criminal records.[2]

Hotel Management System
Authors: Rama Swamy and KarunaBhaskar
Simple Hotel Management System is based on the concept of managing the hotel room's bookings and payments. In this system, there are no login features. The user can manage room bookings, customer records, view total allotted rooms, edit records, and make payments. This mini project contains limited but essential features.Talking about the features of the Simple Hotel Management System, the user can easily book a room by providing room number, name, address, and phone number. The user can also search for the customer's detail from their room numbers. He/she can check the total room's allotted which shows room numbers, customer's name, their addresses, and phone numbers. All the stored records can be modified and deleted. The last feature of this mini project is about payments. By entering the room number, the system displays the total bill of the customer.[3]

Student Management System
Authors: Tristan James and Julie Michel
Student Management System is based on the concept of managing student information. Before stepping into the main menu a user has to pass through a login system to get access, then the user can manage student information by adding, updating, removing, viewing and searching for details. This mini project contains limited features, but the essential one.Talking about the features of Student management system, the user can add various information of the students. For that, the user has to provide id, full name, class, branch, address, email, roll number, and contact details. The user can also modify all the available records easily. Before modifying the student's record the user has to enter the respective name which shows the old available record. After that, the user can modify each and every field. Deleting a record is too simple here, the user just has to enter the full name of the student. In order to view student record, the user has to search for it. It is done by entering the full name of the student. Then the system displays each and every available detail. The system creates an external file to store the user's data permanently. This program mainly focuses on CRUD with searching function. Student Management system is developed using C++ Programming Language and different variables, strings have been used for the development of it. Student Management System in C++ Programming with source code is free to download. Use for educational purposes only! This project provides the simplest system for easy management of student details.[4]

Pharmacy Management System
Authors: P.Subramanyam and Naga mani
Pharmacy Management System is based on a concept of taking medicine orders with payments. In this system, there are no login features. The user can use the features of it which include taking new medicine order, deleting, modifying medicine orders, printing the receipt of payment and viewing the summary of total sales within a day. This mini project contains limited features, but the essential one.Talking about the features of the Pharmacy

Management System, the user can take a new medicine order. For this, the user has to provide the order number, name, date, number of medicine and select medicine. The user can delete the latest medicine order by providing the order number. In order to modify the order, he/she has to enter each and every detail. After taking orders, the payment is to be done from the receipt section. Here in the receipt section, the system asks for a receipt number. Then the system displays total receipt with medicine type, name, quantity, and total price.The last feature of this project is about viewing the summary of total sales. This section displays each and every sale record in a list view.[5]

Music Player in C++
Authors: Padro Santos and Barbara
Music Player project is developed in C++ using .NET framework. The Project is based on a concept of playing audio files. Talking about this music player, here user can select any of their music folders and play songs easily. It contains an equalizer to adjust the amplitude of audio signals. And also a left and right volume with a master volume. The user can also manage the tempo, pitch, and rate of the sound file while playing. The user can also skip the song or any other sound files or change the track easily. It shows all the available music files of the selected folder in a list view. In short, it is just like the other media players. Talking about the GUI Part, it is pretty clean and simple so that the user won't find any difficulties while working on it. Music Player project helps the user for playing music files. This project is easy to operate and understood by the users.[6]

Hospital Management System
Authors: S.RajendraSastry and B.Rangachary
Hospital Management System is based on a concept of recording normal and critically ill patient records of different categories. In this system, there are no login features. The user can easily select various clinic types where he/she can register a patient, take the patient to a doctor, and view total patient list. This mini project contains limited features, but the essential one.Talking about the features of the Hospital Management System, in total there are four departments. They are General Clinic, Heart Clinic, Lung Clinic, and Plastic Surgery. At first, the user has to select their department to proceed. Each of the department contains essential features required for a hospital, such as adding normal and critically ill patient, taking the patient to doctor, and displaying the total list of patient details. In order to add normal and critically ill patient, he/she has to enter the patient's name, gender, age, blood group, and contact details. The patients can be taken to the doctor for this, the user just has to select the patient. It also removes the patient details from the list.And the last feature of this project is displaying a list of the registered patient. It displays all the available details of the patient such as first and last name, gender, age, blood group, and contact details.[7]

Railway System
Authors: Dr. ChayaBagrecha, SadiqAlam
Tourism industry has a great future in developing countries like India. Technological advancements are being witnessed by this sector which forms major part of economy. In the modern era the travelers are educated, well informed and are very conscious about the trending technology. They want to adopt better and smarter ways to buy products or avail services. Modern passengers do not have time to go the traditional reservation centers and book their tickets. They just book their tickets through internet which helps them in saving time and at the same time avail various other benefits. Online ticketing has got great market opportunity in the future with increasing number of techno savvy youngsters and working women in India. There are some factors such as privacy, hacking etc. due to which people refrain from booking online tickets. The online travel agencies should adopt various measures to cope up with these challenges and sustain in this competitive market.[8]

Online Shopping
Authors: Puja Gupta
The study reveals that the male are less doing the online shopping than female. The female are more into online shopping because they enjoy doing shopping whether it is traditional shopping or e-shopping. The young generation are more often purchasing from online sites because of the revolution in the technology among the youth population and they are able to use this technology for their well-being more than other age group category. Flipkart is the

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shopping site which is more preferable by the youngster. There are increasing demand of online shopping because the variety of options for the consumers to choose and that to at a reasonable price and sometime even less price than the market. Electronic items were less demanded from the e-shopping but clothes are much more demanded by the consumers. There are several products which are not delivered by the shopping sites in the preferable area, it is seen that with the advancement of the technology the preference of the online shopping increases. Earlier people used more of the traditional shopping. Now also people who are not aware of the several shopping sites and not that technically advanced are less into internet for shopping.[9]

Travel Agents vs Online Booking
Autors: Anton Bogdanovycha , Helmut Bergerb , Simeon Simoffa and CarlesSierrac
The results of the conducted study highlight the combination of factors from both travel agents and online booking experiences which are important for customers and are likely to influence future online travel portals. We suggest that the convenience of Internet should be combined with the convenience of a simplified decision making and collaborative booking from traditional travel agents. The expertise of travel agents should help online customers to find the best travel option under given constraints and provide efficient support for impulsive decisions. In our opinion, a feasible way to achieve this combination at present is to apply the 3D Electronic Institutions methodology that allows the creation of cutting-edge representations of travel destinations and saving human resources using intelligent software agents.[10]

III. SCOPE

This movie booking system is developed keeping in view of current multiplex working pattern. Schedule for many screens can be programmed in this project. Customer can choose city and name of the multiplex where they want to watch the movie and get their movie timings . They can pay ticket amount online via credit/debit card or e-banking. This allows customers to comment and review on movies. It provides a list of upcoming movies and it sends SMS notification after successful seat reservation. It is more user friendly also in small screen devices.It may help collecting perfect management in details. In a very short time, the Collection will be obvious, simple and sensible. It will help a person to know the management Of passed year perfectly and vivdly. It also helps in current all works relative to Movie ticket Booking system. It will also reduce the cost of collecting the management & collection Procedure will go on smoothly. Our project aims at Business process automation, i.e. we have tried to computerize Various processes of Movie Ticket Booking system.

- In computer system the person has to fill the various forms and number of copies of the forms can be easily generated at a time.
- In computer system, it is not necessary to create the manifest but we can directly print it ,which saves our time.
- To assist the staff in capturing the effort spent on their respective working areas.
- It satisfies the user requirement
- Be easy to understand by the user and operator
- Be easy to operate
- Have a good user interface
- Be expandable
- Delivered on schedule within the budget

Advantages
1.Open 24/7 to receive reservations: Many customers surf the Internet outside of business hours and they are more likely to make reservations on the spot that trying to remember to call back the next day.
Statistics show that more and more bookings today are made during the evening at home online. The reasons for this are two fold. Firstly, many companies now monitor and control Internet access in the workplace, and secondly, nearly every home today has an Internet connection and a PC or laptop.

2. Its simply good customer service: When we speak about online bookings here, we are not talking about a contact

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form. A contact form does not provide your customers with a clear view of your availability. A contact form does not allow your customers to book directly and pay and get confirmed automatically.
A proper online booking system must, at the least be able to perform these two tasks as they are core to providing good customer service.

3. All your customer data in a structured system: If you use a good online booking system which also handles the walk-in, email and phone bookings, then you will have all your previous customers data in a structured system. This is important today as it allows you to market yourself to your previous customers. This customer list is often one of your best-valued resources in a business, and you want this data both accessible and structured.

4. Up selling: This is not just the domain of large companies.
When a customer is booking a car or an apartment for their holidays, its very common to have extras" that the customer can choose. For apartment rentals it might be a welcome basket, for a car rental company, it may be a GPS system.
Your booking system should allow for the easy addition of "extras" so that you offer your customers all your great features and options.
5. Discount Codes: Discount codes are a great way to market your business in either off-season, or when you have some last spots available. Make sure your online booking system can support discount codes.WebReserv makes it easy to download email addresses from previous customers so you can send them a "come back"discount code. The post-visit email is great for this.

Disadvantages

1.Live Help: When you book online, you usually can't ask a live person questions about hotel rooms, flight routes, visa requirements or anything else you're concerned about. You may not be able to confirm special requests at the time of your online reservation.

2. Customization: Many travel websites can't handle complicated itineraries, such as a trip that combines train, bus and plane travel.

3. Hidden Fees: Many online travel sites advertise low rates to attract your attention and then add fees and surcharges for a much less competitive deal.

4. Limited Validity:The bargain rates that make booking online appear so attractive often mean giving up flexibility in your dates of travel or other such constraints.
5. Limited Options: Some small inns and tour guides may not have an online presence. If you only look for businesses that have websites and online booking capability, you could miss out on some local colour.

IV. APPLICATIONS

Most popularly used apps for booking movie tickets are BookMyshow ,Paytm , PVR cinemas , Inox , Cinepolis.

1.BookMyShow :
With BookMyShow app you can now book tickets for movies, plays, concerts, sports and many other events happening in your city. You can book and buy tickets online. The app lets you check movie show timings, list of theatres, read reviews and news. Movie bookings now made very easy. This app is one stop destination for all your ticketing and entertaining shows. Over the years, this app has catered to millions and have strived in becoming Indias number 1 online entertainment portal. The app has a tie-up with most of the renowned cinemas in the country like PVR Cinemas, BIG Cinemas, INOX, City Gold and so many more.
2. PVR Cinemas: The all-new PVR app makes your movie booking experience easy and hassle-free. You can buy your tickets on the app, stay updated with movie information, movie schedule, coming soon/upcoming movies, show timing, prebook food and seats and get many more exclusive loyalty benefits. It has easy discovery and booking of

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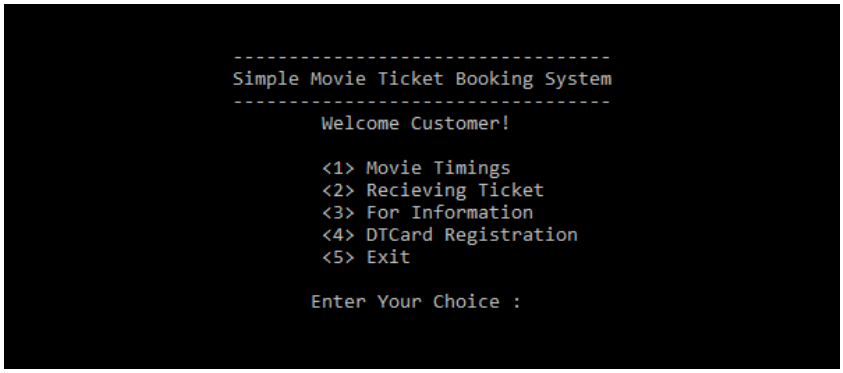
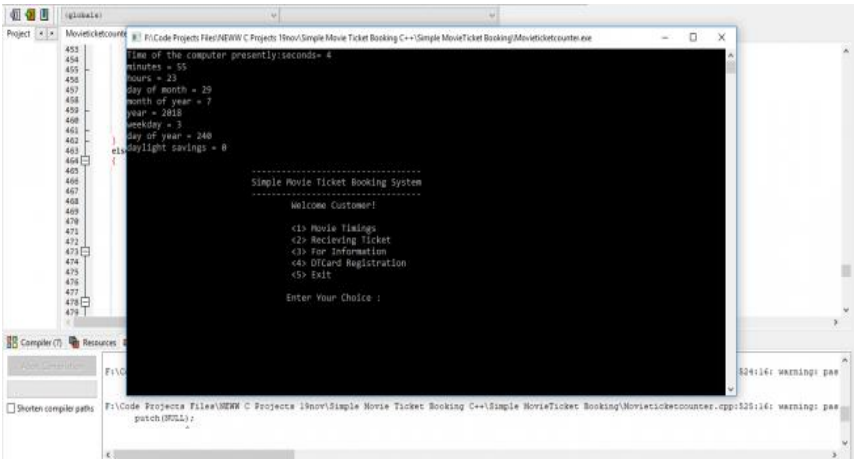
tickets and food. They have improved the navigation to help you seamlessly book your movie tickets, food, find the best offers and to make it easier to book the experience. The app lets you discover movie recommendations, food suggestions, seat preference and many more surprises tailored just for you. You can also book a cab in the app itself for your movie trip. They have teamed up with Ola to bring you the best taxi service available.

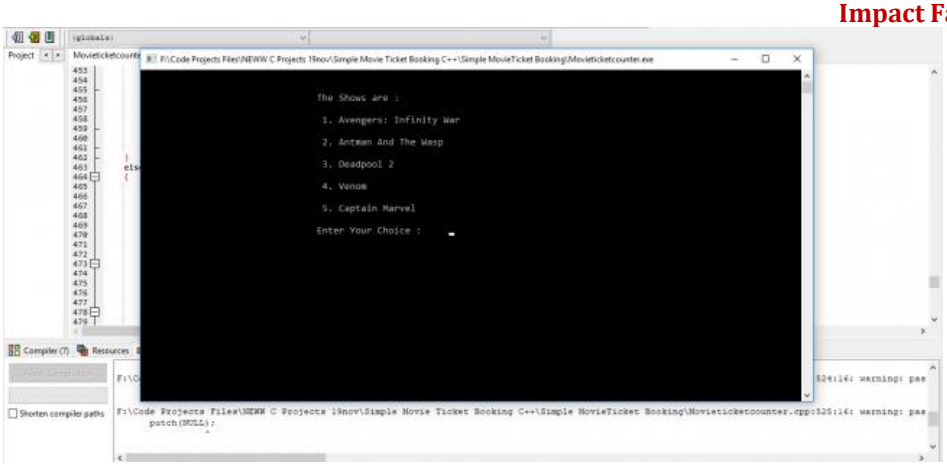
3. INOX: Everything you love about INOX now is at your fingertips in the form of INOX app. You can easily find and search about what is playing at your nearest INOX theatre. Book tickets instantly inside this app. You can also use the app to order food and beverages directly from your seat. Don't wait in line, let the food come to you. You can also give your loved ones the gift of entertainment by gifting them an INOX E-Gift card. Get movie listings, check show times, choose your seats and buy the ticket directly from your phone. Also, INOX application supports multiple payments options which are 100% secure.

4. CINEPOLIS INDIA:Cinepolis India brings cinema right in the palm of your hands. Check the show timings, find trailers and buy your ticket at any place at any time. You can view the timing of the movie shows being played around you. Also, locate a cinema hall that is closer to you. Quickly and easily find the movie that you want to see. All in one app in one place! You need to have an active internet connection in order to enjoy the various features of the app. Now booking movie tickets is a three-step process and not a long queue.

V. SAMPLE OUTPUT







VI. CONCLUSION

We hereby conclude that online movie ticket booking system effectively automated the functions involved in the process being handled manually before. The features of the Online Movie Ticket Booking System, a user can select any movie provided in the list. After selecting a show, One has to select timings, then the system asks for personal information which include Name, contact number. There are two types of seat class i.e. Normal class and Gold Class. For certain purpose, They can also make payment using the card and has to provide card number, expiry date, and CVV. After that, the system is automatically displays the final outcome which is the user's bill. For the system, the user can also register DTCard from the system. This movie ticket booking system is scalable and secured and the coding has done keeping user-friendleness and efficiency in mind.

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