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## Project Report-IT-206-Data Structures

### Project Title-Online Movie Ticket Booking Portal

#### 1) Problem statement

##### Problem Scenario:

- In nowadays everything like shopping ,food,mobile recharge,light bill payment and other government tax,house rent payment and even medicine everything people purchase through online mode.
- therefore in this digital generation everybody wants to do their work as quickly as possible nobody wants to stand in line to purchase movie ticket if it is available in only few minutes by their mobile phone or PC.
- In online Booking system customer not need to go cinema or theatre to purchase tickets and this is time saving thing for customer and customer can pay their tickets cost by online payment mode like Debit card or Net-Banking.

##### Problem Solution:

- To book online movie ticket customer can go on website and book tickets for available movie show.
- Customer can select their city which he or she lives or wants to enjoy movie and also select available show time of Movie.

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-----
Available Movies
-----
screen 1.Bahubali
screen 2.Avengers:End Game
screen 3.Sultan
screen 4.Dangal
screen 5.Spider man:no way home
Press 6.To Exit from portal
Press any other no.To go back in main menu
select your screen:

-----
Available Show Times
-----
Press 1.12:00 PM to 2:30 PM
Press 2.3:00 PM to 5:30 PM
Press 3.6:00 PM to 8:30 PM
Press 4.9:00 PM to 11:30 PM
Select your show time:

```

```

-----
Available city in Gujarat
-----
Press 1.Ahemdabad
Press 2.Vadodara
Press 3.Surat
Press 4.Rajkot
Press 5.Gandhinagar
Press 6.Valsad
Press 7.Bhavnagar
Select your city:

```

- And customer also get E-movie tickets after book tickets.

```

-----
      Your Tickets Details
-----
| Ticket no : 1
| City : Rajkot
| Show time : 6:00 PM to 8:30 PM
| Your seat no is : A1
| Ticket Class : Platinum
| Movie Name : Avengers:End Game
-----
| Ticket no : 2
| City : Rajkot
| Show time : 6:00 PM to 8:30 PM
| Your seat no is : A2
| Ticket Class : Platinum
| Movie Name : Avengers:End Game
-----

```

•Customer can be part of prime member in which he or she need to pay only one time decided cash and we give customer a prime card based on their selected type of prime membership and customer can watch every new movie in theatre before their prime card due date without paying any extra money and enjoy snack in movie time.

•If customer wants to get help from us and wants to get information about our cinema and theatre he or she can do it by going on our website.

## 2) Approach to the problem

- First we think about our problem and after that we discussed that which functionality We can add in this problem.
- We taked class called loginpage this Class takes login details from custmor and If custmor enter first time in portal than tell custmor to create account first.
- If customer create new acoount then their data will store in folder called user with their name.txt file.
- And after creating their account customer can login with their name and their password if customer enter wrong user name or user password then it will show customer that check your given data again.
- We taked another class called movie which contains public function like select movie,select show time,select ticket type(Silver,Gold and Platinum) and provide user to that how many tickets he or she wants to purchase and which type ticket.

```

How many ticket do you want to purchase?:4

-----
      Available Show Ticket Type
-----
      Press 1.Silver:Rs 120
      Press 2.Gold:Rs 150
      Press 3.Platinum:Rs 200
      Slectect your ticket type:

      You need to pay Rs:800

-----
      Available Payment Type
-----
      Press 1.Plyment By Debit Card
      Press 2.Plyment By Net Banking
      Slectect your payment type:1

      Enter Card Holder First name:xyz

      Enter Card Holder Last name:abc

      Enter your 12-digit card number:123456789123

      Enter Expiry month:12

      Enter Expiry year:2026

      Enter your 3-digit cvv number:123_

```

- We took function count ticket cash and payment mode(Debit card or Net banking).function total ticket cash to count total cash for tickets and paymentmode function to ask user that by which type you want to payment Debit card or credit card.if user select Debit card then It will ask first and last name of card holder and card number and cvv number and also ask expiry month and year to customer and if user select net banking than It will ask first and last name of card holder and card number and upi number and after pay ticket cash function called showticket generates E-tickets of customer.
- We also took function called prime membership for if customer wants to be prime member it will ask that which type of prime member you want to be(for months, for 2 months, for 3 months).
- And if customer wants to get information about our cinema or wants to get help from us he or she can do it by given contact number or going on our website.

#### ----- Our Prime Membership Details -----

```
press 1.For 1 month memebership Rs:2000
press 2.For 2 month memebership Rs:4000
press 3.For 3 month memebership Rs:5500
press 4.If you don't want to be Prime Memeber
Select your memebership type:
```

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For any help contact us on:

->contact no 1.9834567324

->contact no 2.7833333324

->For more information visit our site [www.da\\_cinema&movie.com](http://www.da_cinema&movie.com)

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Thank you Sir/Ma'am for visit our site hope you will enjoy the Movie  
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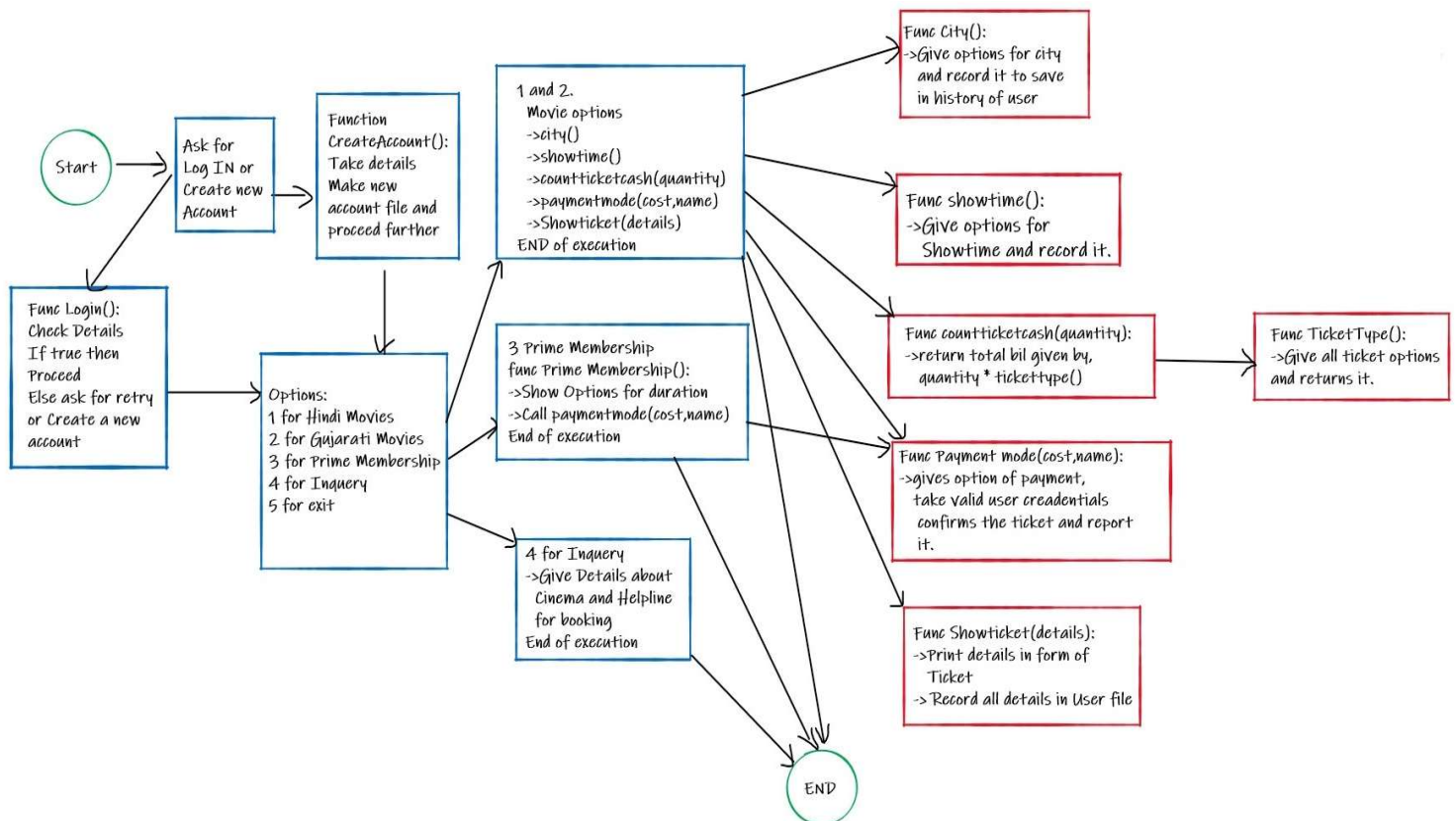
### 3)What does We Learn from this Project

- We learn to manage data flow between multiple header files and make data changes in files present in system directory.
- We also learnt that how to implement of data abstraction which is one of the important concept of oops by making function of header file and call them into main program file and hence we used minimal use of internal data for privacy of user data.
- In wide way this project helps us to learn and understand how real-world problems can be solved by data structure's easy implementation. We saw that how real-world application work to register user details and we also get some idea how they store their data and some relative history of payments.
- Usually in Assignment of LABs we used just one header file and its respective cpp file to add function of that header file. But it was first time for us to work with multiple header files and make relation between their data and get data from one to another.
- In the addition we learnt to use file pointer data type, to make new files and update information in it. We had never done this before. So, it was totally new thing for us. And we learnt it and gain some sort of knowledge by this project.

## 4)Limitation

- One of the biggest limitation of this project is, It is not Graphically recommended by anyone. But it is very simple to understand and go further with it. So, user can work easily with it. But yes it is still limitation of this code.
- Second thing is we can use encryption methods like MD5 etc to prevent our data to become public accessible, but it will make our project more complex to understand hence we didn't use it. It can be a drawback for privacy of user data.

## Overview of code that how it works



Note:-Use project files with unzipped file folder otherwise user data file name.txt doesn't created in user folder when we create new account (unzip this **Files folder 202001452&202001464\_Project\_files** which is in Zip folder **online\_movie\_ticket\_booking\_202001452\_202001464**).