School of Engineering and Applied Science
CSE100 Fundamentals of Computer Programming
Problem Definition and Team Details

Project Title: TOURS AND TRAVELS MANAGEMENT SYSTEM

TEAM DETAILS

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[1] PROBLEM DEFINITION

Title of the project	Tours and Travels Management System
Objective/vision/main goal of developing the software application	To customize the journey for every traveler using Online Software and Clearing Hurdles for Travel Enthusiasts.
What Problem will be solved by the proposed software application	Users will be able to book complete tour packages and Hotels along with Transportation tickets online. Problem Solved: Anytime and anywhere bookings.
End-Users of the software:	**Tourists**

Listing of functionality/features/main modules to be provided in the software to different end-users	o View all Holiday packages o Can book complete Holiday Tour package o Can book Travels with different stops and destinations! o Can know about the system o Can know the contact details of Agency o Can see his/her booking details (e-ticket)
Important outputs/reports to be generated from the software	E-tickets in order to go paperless and to ease pre-online bookings of different tours and travels(buses) across the country.

[2] PROJECT DESIGN

2.1 User Interface Design: Design of Input/Output Screen, Menus.

Welcome Screen

Home Page

```
------------------------------ H O M E   P A G E ------------------------------


Please select a kind of user:

1. New User

2. Existing User

3. Exit

Please give your choice: _
```

Sign Up Page

```
-------------------------------- S I G N   U P --------------------------------


Please fill below details carfully:

==> Username  :  guest

==> Password  :  ********


:) You Registered Successfully...
```

Sign In Page

```
------------------------------ S I G N  I N ------------------------------




==> Username  :  guest

==> Password  :  ********

:) You Logged In Successfully...
```

Main Menu

```
-=-=-=-=-=-=-=-=-=-=-=-=-=- M A I N  M E N U -=-=-=-=-=-=-=-=-=-=-=-=-=-


------------------------------------------------------------------------------
Welcome User...                                    Date: Jan 23 2021
                                                   Time: 18:08:35
------------------------------------------------------------------------------

1. View Holiday Packages

2. Book Holiday Package

3. View and Book Routes & Travels

4. Contact Us

5. About Us

6. Exit

------------------------------------------------------------------------------

Please select any option:
```

View Packages Page

```
////////////////////////////////////////////////////////////////////

              H O L I D A Y   P A C K A G E S

////////////////////////////////////////////////////////////////////


Holiday Packages:

1. Jammu and Kashmir

2. Shimla - Manali

3. Mussorie - Nainital

4. Kerala

5. Goa - Mahabaleshwar

--------------------------------------------------------------------


Please select any tour package to view more details and press 0 to go back: _
```

Information Page of Holiday Package

```
              H O L I D A Y   P A C K A G E   D E T A I L S
_____

Welcome User...                                Date: Jan 23 2021
                                               Time: 18:08:35


Package Name         :      JAMMU AND KASHMIR

Location             :      JAMMU, KASHMIR, SRINAGAR, PAHALGAM

Duration             :      6 Days 5 Nights

Starting Date        :      May 5 2021

Pickup Point         :      Jammu
                            (You will need to reach Jammu on 4 May 2021)

Tour Program         :

----------------------------------------------------------------------
Day     Date            Daily Travel Shedule          Night Halt
----------------------------------------------------------------------
  1     5-5-2021    Visiting in Jammu City          Hotel C7, Jammu
  2     6-5-2021    Way to Srinagar                 Hotel Holiday,
                                                    Srinagar
  3     7-5-2021    Sonmarg, Gulmarg                House Boat
                                                    Dal Lake, Srinagar
  4     8-5-2021    Visting in Srinagar, Dal lake   House Boat
                                                    Dal Lake, Srinagar
  5     9-5-2021    Vistiing in Pahelgam            Hotel Royal,
                                                    Pahelgam
  6     10-5-2021   Back to Jammu                   Hotel C7, Jammu
----------------------------------------------------------------------

Drop Point           :      Jammu Airport\ Jammu Railway Station

Tour cost            :      Per Person 12000 Rs, Per Person 9000 Rs for below 7
                            years old child (including Breakfast, Lunch, Dinner)

Instructions         :      You need to book your ticket for reaching Jammu and
                            returning from Jammu on your own.

_____

Press any key to go back: _
```

Book Holiday Package

```
///////////////////////////////////////////////////////////////////

          B O O K   M Y   H O L I D A Y   P A C K A G E

///////////////////////////////////////////////////////////////////


    Book Holiday Packages:

    1. Jammu and Kashmir

    2. Shimla - Manali

    3. Mussorie - Nainital

    4. Kerala

    5. Goa - Mahabaleshwar

    ----------------------------------------------------------------


    Please select a tour package that you want to book and press 0 to go back:
```

```
          B O O K   H O L I D A Y   P A C K A G E
_____

Welcome User...                          Date: Jan 23 2021
                                         Time: 18:08:35
_____

Package Name       :      JAMMU AND KASHMIR

Location           :      JAMMU, KASHMIR, SRINAGAR, PAHALGAM

Duration           :      6 Days 5 Nights

Starting Date      :      May 5 2021

Pickup Point       :      Jammu
                          (You will need to reach Jammu on 4 May 2021)

 Tour cost         :      Per Person 12000 Rs, Per Person 9000 Rs for below 7
                          years old child (including Breakfast, Lunch, Dinner)

 Instructions      :      You need to book your ticket for reaching Jammu and
                          returning from Jammu on your own.
_____

                   B O O K I N G S-
Enter number of Persons taking benefit of this Tour: 2

Enter the Age of Person 1 : 6

Enter the Age of Person 2 : 21

Total Amount For people with the age Less than or equal to 7: Rs. 9000

Total Amount For people with the age Greater than 7: Rs. 12000

Your GRAND TOTAL is: Rs. 21000

Are You Sure to book the the TOUR JAMMU AND KASHMIR with your Total Amount Rs. 21000 ? (Enter Y for yes and N for No) : y

        THANK YOU FOR BOOKING OUR TOURS!
```

View and Book Routes

```
////////////////////////////////////////////////////////////////////////
        T R A V E L S   D E T A I L S   A N D   B O O K I N G
////////////////////////////////////////////////////////////////////////

   Your Location:

   1. Ahmedabad

   2. Vadodra

   3. Surat

   4. Rajkot

   5. Mumbai

   Please select your Location or press 0 to go back: 1
   -----------------------------------------------------------------------
   Your Destination:

   1. Vadodra

   2. Surat

   3. Rajkot

   4. Mumbai

   Please select your Destination or press 0 to go back: 4_
```

```
////////////////////////////////////////////////////////////////////////
        T R A V E L S   D E T A I L S   A N D   B O O K I N G
////////////////////////////////////////////////////////////////////////

   Your Location:
   1. Ahmedabad
   2. Vadodra
   3. Surat
   4. Rajkot
   5. Mumbai

   Please select your Location or press 0 to go back: 1
   -----------------------------------------------------------------------
   Your Destination:
   1. Vadodra
   2. Surat
   3. Rajkot
   4. Mumbai

   Please select your Destination or press 0 to go back: 4_
```
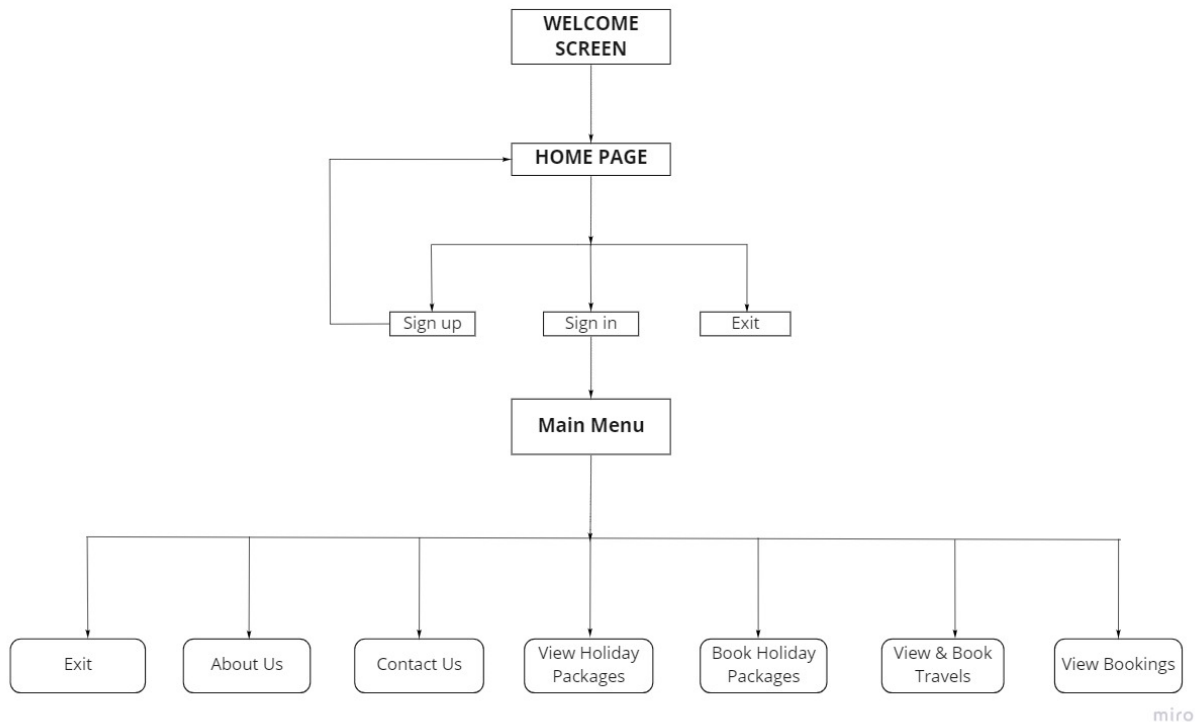
Exit Page

2.2 Database Design:

- We are using three files to store user's data.

    1) **userdatabase.txt** – *to store user's id and password so that he/she can login and use the system.*

    2) **travels.txt** – *to store user's travels booking history so that he/she know about his/her journey*

    3) **packages.txt –** *to store user's packages booking history so that he/she know about his/her journey*

Sr No.	Name of the field	Data Type	Sample Data
1	name [15]	char	guest
2	password [15]	char	guest123

2.3 Program Design:

- We designed our program in such a way in which user can use our system comfortably.
- We used many functions in our program to do different tasks. For example, we used WelcomePage () function to display welcome page, we used HomePage () function to display home page. Similarly, we used many functions to show appropriate pages.
- We used many decision-making statements in our program to check details which are entered by the user.
- We used File management to store user's data.

2.4 Structure Design:

Some Important Algorithms/ Logics in the project:

1. Start

2. Display Welcome Screen and ask user to press any key.

3. Display Homepage and Input user type from user.

4. If New user, Display Sign up page.

   Get username and password from user.

   If username is already used, Display: "Username already exists" and GOTO: Homepage (Step-3).

   Else Display: "You registered successfully" and GOTO: Homepage (Step-3).

5. If Existing user, Get username and password from user.

   If password or username entered is incorrect, Display: "username or password is incorrect" and GOTO: Homepage (Step-3).

Else Display: "You logged in successfully"

6. Display Main menu and read his/her choice.

7. If user selects (1) open "View Holiday Packages" and Display: Available Holiday packages.
    If user wishes, Display more details and schedule of selected package.

8. If user selects (2) open "Book Holiday Package" and Display: Available Holiday packages.

    Input desired package from user and display some details, costs and instructions regarding that package.

    For bookings input total number of people and their respective ages.

    Display the net Amount to be paid by user in INR.

    Ask for final confirmation, if user declines GOTO: "Book Holiday package" and Display: Available Holiday packages.

    If user accepts Display: "Thank You for booking our Tours" and Display: Exit Screen & finish program.

9. If user selects (3) open "View and book travels route" and display: "Travel Details and Booking" page and input user location and destination.

    Display available travels, route details, Bus codes, schedules, timings, and their respective costs.

    Ask user if he/she wants to book any of the displayed travels or go back to select location and destination.

    If user presses "Book now" (1), input Bus code and ask for confirmation of Bus code.

    If user declines GOTO: Step-9.

    If user accepts, input number of seats he/she wants to book and after that Display the net Amount to be paid by the user in INR.

    Ask for final confirmation of Booking.

    If user declines, GOTO: Step-9.

    If user accepts, Display: "Thank you for booking our travels" AND Display: Exit Screen

message & finish program.

If user presses "Go Back" (2), Display: "Travel Details and Booking" page.

10. If user presses "Contact Us" (4) in Main menu, Display: "Contact Us" page, from where the user can get contact details of Developers in case of any query.

11. If user presses "About Us" (5) in Main menu, Display: "About Us" page, where user can get full information and details about the services provided by this Software.

12. If user press "Exit" (6) in Main menu, Display: Exit Screen message & finish program.

13. END