# **BIKE RENTAL SYSTEM**

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Mini Project Report

Submitted in partial fulfilment of the Requirements for the award of the Degree of

### **BACHELOR OF ENGINEERING**

IN

### INFORMATION TECHNOLOGY

By

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# **DECLARATION BY THE CANDIDATE**

We, SAGI HASINI and SHRAVANI MAHANTH bearing hall ticket numbers, 1602-19-737-133 and 1602-19-737-169, hereby declare that the project report entitled "BIKE RENTAL SYSTEM" is submitted in partial fulfilment of the requirement for the award of the degree of Bachelor of Engineering in Information Technology.

This is a record of bonafide work carried out by us and the results embodied in this project report have not been submitted to any other university or institute for the award of any other degree or diploma.

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We convey thanks to my project guide Mrs .Divya of Information technology

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a great help to complete this project successfully.

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# Abstract

Vehicle Rental System is based on a concept to maintain rental for a short period of time and generating total charge. Before stepping into the main system a user has to pass through a login system to get access, then a menu displays with the selective option of the Car models for rent. There are different models in this system which can be changed by the user according to their will. Talking about the features of this Mini Project before hiring a vehicle he/she has to choose the vehicle, each of the vehicle has its own rate, maximum speed, color, and model. After selecting a vehicle, the system wants a confirmation before proceeding. Afterward, the user has to provide his/her Personal details such as Name (first name without spaces), Citizen-ship Number and provide Payment Amount. If the amount provided by the user is less than the vehicle rate then the payment won't proceed for the rental. After all these procedures, the user can continue hiring more vehicles or either exit the system.

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# Introduction

Bike rental system is for those who are you planning to explore the city ,who is in a need of a two wheeler for emergency purpose ,who needs a vehicle for a short tour/vacation. It presents Bike rentals to make customer's job easy it offers to Enjoy the freedom of owning a two-wheeler without the hefty down-payments, EMIs and paperwork.

Firstly the user has to enter some details in order to rent a bike. It involves entering a valid driving license number, email id, phone number and nationality as well. We believe that each one of us is unique. Being unique means we all have different likes and needs. So, we went out of our way to get something for everyone.

All you have to do is make up your mind and pick one! It doesn't matter if you're a college student, a working professional or a bike enthusiast who just wants to ride around the city for the weekend, pick something that suits your lifestyle and Wallet as well.

Initially user has to register if he/she is new to the system else they can simply signin . After registration is done user has to sign-in to the account to rent a bike.

Here we are trying to avoid taking the user's details multiple times if they already have an account. We offer a wide variety of vehicles starting from scooters such as Activa, Dio, luna, maestro, NS200,R15,access,pulsar, KTM Duke 200,etc.

We have access for both admin and user side.

#### **USER SIDE:**

- 1.Rent a Bike
- 2. View rental fares
- 3. View rental records

#### 4. Search rental record

#### 5.Exit

Firstly, for user side customer can Rent a bike where he/she can check for rental fares and choose one of his choice and can generate a bill.

Also, user/customer can search and view for rental records .If the stock of the bike chosen isn't available then customer will have to choose another one!

### **ADMIN SIDE:**

- 1. View rental records
- 2. View vehicle fares
- 3.Edit fares and stocks
- 4.Remove a user
- 5.Search user
- 6.Edit user
- 7.Exit

Firstly ,admin has to sign-in to the account with their credentials which are hardcoded (user name: bikerentalsystem, password: miniproject). Then admin can view rental records and vehicle rental fares as well. If the user choose a specified bike then admin will have to change the stock of bikes available for next use. Also, he can change the bike fares.

Admin can remove the user if they return the bike and can also search the users.

Admin can also edit the users details and fix them accordingly. Finally Admin can exit from the page and can view home page.

# **Technology**

Computer technology consists of the hardware of computers and computer-controlled devices and software like the operating systems, authoring tools, expert systems, and courseware use to support training technology. Many projects, for-profit organizations often require technology development involving hardware or software design.

## **Software requirements**

Software requirements deal with defining software resource requirements that need to be installed on the computer These prerequisites are generally not included in the software installation package and need to be installed separately before the software is installed

The following sub-sections discuss the various aspects of software requirements for bike rental system.

- Web Browser: Microsoft Internet Explorer, Mozilla, Google Chrome or later
- Operating System: Windows XP / Windows 7/ Windows Vista

## Hardware requirements

The **hardware requirements** are the requirements of a hardware device. Most hardware only has operating system requirements or compatibility.

The following sub-sections discuss the various aspects of hardware requirements for bike rental system.

- 256 MB RAM
- 1 Gb hard free drive space
- Processor: Intel Core i5 and more

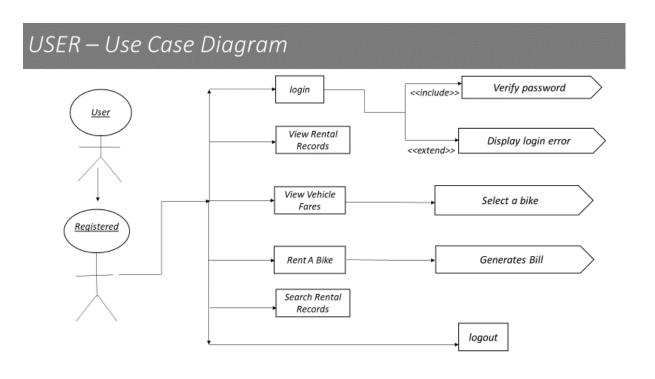
# **Proposed work**

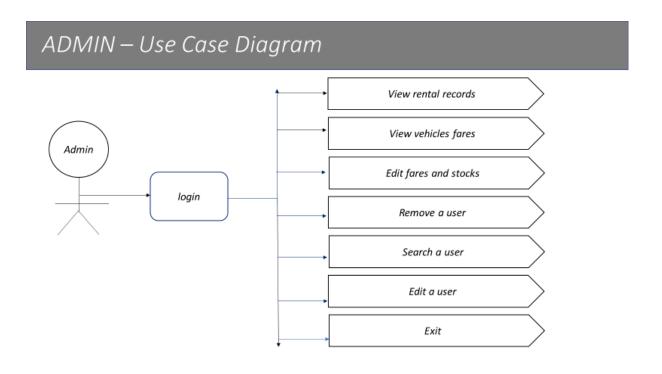
# a. Design

i. Use case diagram and descriptions for all the use-cases

# USE CASES

USER:  ✓ Register  ✓ Login  ✓ View Vehicles Fares  ✓ Rent a bike  ✓ View Rental Records  ✓ Search Rental Records  ✓ Logout	Admin:  ✓ Login  ✓ View Rental Records  ✓ View Vehicles Fares  ✓ Edit Fares and stock  ✓ Remove a User  ✓ Search a User  ✓ Edit Records	DATA:  ✓ Stores the information .  About different models of bikes  ✓ Deletion and editing of Users details.
	√ Exit	





# **USER**

# Register

User has to registers to login ,To register user has to enter credentials (creates username and password to login and full name ,address ,contact number ,nationality ,email ,

driving license number). System Saves all the credentials entered by the user and this details are used to login.

## Login

User has to Enters credentials (username and password) to login, if the credentials are correct user can login successfully and gets access to program. If not user has to enter the credentials until they login.

#### View vehicle fares

Before renting the bike user can see the available stocks of bikes and the fares of each bike so that user can choose the bike available and can rent the bike.

#### Rent a bike

After choosing the bike in view vehicle fares now user can rent a bike of their valid choose and can generate a bill.

### View Rental Records

User can view the details of their rented bike i.e; (Bike name ,Full name , address , phone number , nationality , email, days, rented time).

### Search Rental Records.

User can search their rental records by entering the bike name.

#### **Exit**

User can exit from the page after renting the bike they wanted and they are redirected to welcome page.

#### Admin

# Login

Admin must login with their credentials (username and password) which are hard-coded(user name: bikerentalsystem, password: miniproject) to get access to program If not admin has to enter the credentials until they login.

### **View Rental Records**

Admin can view the details of all the rented bikes.

### **Edit fares and stocks**

Admin can edit the bikes fares and the count of bikes if they needed.

### Remove a user

Admin can remove the user details by entering username of the customer. If he/she returns the bike after their time duration.

### Search a user

Admin can search the rental records by entering user name and full name.

### Edit user

Admin can edit the user details if there is any mistake in the details.

### Exit

Admin can exit from the page so that admin can redirected to the home page.

### **b.IMPLEMENTATION**

# i. Module wise code for the entire project

```
int main()
{
      system("color 70");
      WelcomePage();
}
FUNCTION NAME : void Title()
void Title()
{
```

```
printf("\n\t\t\t\t");
   for (int i = 0; i < 81; i++)
       printf("-");
   printf("\n\t\t\t\t\ ----->>>> BIKE RENTAL SYSTEM <<<----
-----");
   printf("\n\t\t\t\t');
   for (int i = 0; i < 81; i++)
       printf("-");
}
FUNCTION NAME: void WelcomePage()
void WelcomePage()
{
   time_t t;
   time(\&t);
   int i = 0, choice;
   system("cls");
   printf("\n\t\t\t\t\t\c
                             %c",186,186);
   printf("\n\t\t\t\t\t\t\t\c
%c",186,186);
   printf("\n\t\t\t\t\t\t\c
                             %c",186,186);
```

```
printf("\n\t\t\t\t\t\t\c
                  WELCOME TO BIKE RENTAL SYSTEM
%c",186,186);
   printf("\n\t\t\t\t\t\t\c
%c",186,186);
   printf("\n\t\t\t\t\t\t\c
                               %c",186,186);
   printf("\n\t\t\t\t\t\c
                               %c",186,186);
   printf("\n\t\t\t\t');
   for (i = 0; i < 80; i++)
       printf(">");
   printf("\n\t\t\t\t\t\t\tCurrent date and time : %s", ctime(&t));
   printf("\t\t\t');
   for (i = 0; i < 80; i++)
       printf("<");</pre>
   printf("\n\n\t\tt\t\t\Press any other key to continue:");
   getch();
   system("cls");
   printf("\langle n \rangle n \rangle");
   Title();
   ======");
```

```
printf("\n\t\t\t\t\t\t\t. REGISTER/ CREATE AN ACCOUNT");
     printf("\n\n\t\t\t\t\t\t\t\t\t\t\2. LOGIN TO EXISTING ACCOUNT");
     printf("\n\t\t\t\t\t\t\t), LOGIN AS ADMIN");
     printf("\n\t\t\t\t\t\t\t. EXIT");
     ======");
     scanf("%d", &choice);
     fflush(stdin);
     switch (choice)
     {
          case 1:
                     registerMenu();
                     break;
          case 2:
                     login();
                     break;
          case 3:
                     loginForAdmin();
                     break;
          case 4:
                     Thankyou();
                     exit(0);
                     break;
```

```
default:
                          printf("\nINVALID CHOICE!!!");
                          break;
      }
}
FUNCTION NAME: void registerMenu()
void registerMenu()
{
      system("cls");
      char user_name[30], password[20], UName[20], Pass[20];
      int valid=0;
      FILE *usp, *read;
      usp = fopen("Register.txt", "a+");
      read = fopen("Register.txt", "r");
      printf("\n\n\t\t\t------ SIGNUP ------
             -----\n");
      A:
             printf("\n\t\t\t\t\t\tENTER USERNAME : ");
             gets(user_name);
             while (fscanf(read, "%s %s %s %s %s %s %s %s %s,",
s.username,s.password,s.fullname,s.address,s.phonenumber,s.nationality,s.email,s.licens
e) != EOF)
             {
                   if (strcmp(s.username, user_name) == 0)
```

```
{
                  goto A;
            }
      }
      fclose(read);
printf("\ht\t\t\t\t\ENTER\ PASSWORD:");
gets(s.password);
B:
      printf("\n\t\t\t\t\t\t\t\tENTER FULL NAME : ");
      gets(s.fullname);
      for (int b=0;b<strlen(s.fullname);b++)
      {
            if(isalpha(s.fullname[b]))
            {
                  valid=1;
            }
            else
            {
                  valid=0;
                  break;
            }
```

```
}
               if(!valid)
               {
                      printf("\n\t\t\t\t\t Full Name contains an Invalid character...Enter
again.");
                      goto B;
               }
       C:
               printf("\n\t\t\t\t\t\tENTER ADDRESS : ");
               gets(s.address);
               s.address[0]=toupper(s.address[0]);
               if(strlen(s.address)>30||strlen(s.address)<5)
               {
                      printf("\n\t\t\t\t\t\t\t\t) address should be in range of 5 to
30");
                      goto C;
               }
       D:
               printf("\n\t\t\t\t\t\Contact no: ");
               gets(s.phonenumber);
               if(strlen(s.phonenumber)>10||strlen(s.phonenumber)!=10)
               {
                      printf("\n\t\t\t\t\t Invalid...Contact must contain 10 digits.");
                      goto D;
```

```
}
      E:
            printf("\n\t\t\t\t\t\tENTER NATIONALITY : ");
            gets(s.nationality);
      F:
            printf("\n\t\t\t\t\t\tENTER EMAIL : ");
            gets(s.email);
      G:
            printf("\n\t\t\t\t\t\t\t\tENTER DRIVING LICENSE NUMBER : ");
            gets(s.license);
      fprintf(usp, "%s %s %s %s %s %s %s %s,",
user_name,s.password,s.fullname,s.address,s.phonenumber,s.nationality,s.email,s.licens
e);
      printf("\n\n\t\t\t----- ACCOUNT
SUCCESSFULLY CREATED -----\n");
      getch();
      fclose(usp);
      WelcomePage();
}
FUNCTION NAME: void login()
void login()
{
      Title();
```

```
int a = 0, i = 0, counter = 0, flag = 0;
     char ch;
     char un[30],pw[30];
     FILE *fp;
     fp = fopen("Register.txt", "r");
     system("cls");
     printf("\n\n\t\t\t\t\t\t
     gets(un);
     printf("\n\t\t\t\t\t\t
     while (ch != 13)
     {
          ch = getch();
          if (ch != 13 && ch != 8)
          {
               printf("*");
               pw[i] = ch;
               i++;
          }
          else if (ch == 8)
          {
               if (i > 0)
```

```
{
                             i--;
                             printf("b \b");
                      }
              }
              if (ch == 13)
              {
                      break;
              }
       }
       pw[i] = '\0';
       while (fscanf(fp, "%s %s %s %s %s %s %s %s %s,",
s. username, s. password, s. full name, s. address, s. phone number, s. nationality, s. email, s. licens\\
e) != EOF)
       {
              if (strcmp(s.username, un) == 0)
              {
                     flag = 1;
                     if (strcmp(s.password, pw) == 0)
                      {
                             printf("\n\n\t\t\t\t\t\t
                                                      ----- LOGIN
SUCCESSFUL ----");
```

```
getch();
                   fclose(fp);
                   UserMenu(un);
              }
              else
              {
                   counter++;
                   -");
                   printf("\n\n\t\t\t\t\t\t\t\t ----- TRY AGAIN -----");
                   getch();
                   fclose(fp);
                   login();
              }
         }
    }
    if (flag != 1)
    {
         getch();
         fclose(fp);
         login();
    }
}
```

# **FUNCTION NAME**: void loginForAdmin()

```
void loginForAdmin()
{
      system("cls");
      char username[] = "bikerentalsystem";
      char pw[] = "miniproject";
      char UName[20], password[20], ch;
      int i, flag = 0, counter = 0;
      printf("\langle n \rangle n \rangle");
      Title();
      printf("\n\n\n\t\t\t\t\t\t\t\tENTER USERNAME:- ");
      gets(UName);
      printf("\n\n\t\t\t\t\t\t\t\t\tENTER PASSWORD:- ");
      gets(password);
      if (strcmp(username, UName) == 0)
      {
            flag = 1;
            if (strcmp(password, pw) == 0)
            {
                  printf("\n\n\t\t\t\t\t\t\t\t\= ----- LOGIN SUCCESSFUL -----
---");
```

```
getch();
              adminMenu();
         }
         else
         {
              counter++;
              printf("\n\n\t\t\t\t\t\t\t\t\ ----- TRY AGAIN -----");
              getch();
              loginForAdmin();
         }
     }
    if (flag != 1)
     {
         getch();
         WelcomePage();
     }
}
FUNCTION NAME: void Thankyou()
void Thankyou()
{
    system("cls");
```

```
printf("\langle n \rangle n \rangle");
    Title();
    =======:");
    ======\n\n\n\n\n\n');
}
FUNCTION NAME: void UserMenu()
void UserMenu(char username[30])
{
    int i = 0;
    time_t t;
    time(\&t);
    char customername;
    int choice;
    system("cls");
    while (1)
    {
        system("cls");
       printf("\n\t\t\t\t');
       for (i = 0; i < 80; i++)
           printf("-");
```

```
printf("\n\n\t\t\t\t\ ----->>>> |MAIN MENU| <<<-----
-----\n");
                                                                                                   printf("\n\t\t\t\t');
                                                                                                    for (i = 0; i < 80; i++)
                                                                                                                                                      printf("-");
                                                                                                    printf("\n");
                                                                                                    printf("\t\t\t\t\t\t *Select and Enter Your Choice From Menu*:");
                                                                                                    printf("\langle n \rangle n");
                                                  printf("\n\t\t\t\t\t\t======");
                                                                                                    printf(" \hline \hlin
                                                  printf("\n\t\t\t\t\t======="");
                                                                                                    printf(" \hline \hlin
                                                  printf("\n\t\t\t\t\t\======="");
                                                                                                    printf(" \n\t\t\t\t\t Enter 3 ->> View Your Rental Record");
                                                  printf("\n\t\t\t\t\t======="");
                                                                                                    printf("\n\t\t\t\t\t\=======""");
                                                                                                    printf(" \hline \hlin
                                                  printf("\n\t\t\t\t\t\t========");
```

```
printf("\n \n\t\t\t\t');
for (i = 0; i < 80; i++)
       printf(">");
printf("\n\t\t\t\tCurrent date and time : %s", ctime(&t));
printf("\t\t\t\t');
for (i = 0; i < 80; i++)
       printf("<");</pre>
scanf("%d", &choice);
fflush(stdin);
switch (choice)
{
       case 1:
                       RentBike(username);
                       break;
       case 2:
                       ViewFares();
                       break;
       case 3:
                       UserRentedList(username);
                       break;
       case 4:
                       UserSearch(username);
                       break;
```

```
case 5:
                                    system("cls");
                                    WelcomePage();
                                    break;
                      default:
                                    system("cls");
                                    printf("Incorrect Input");
                                    printf("\n Press any key to continue");
                                    getch();
                                    break;
              }
       }
}
FUNCTION NAME: void RentBike()
void RentBike(char username[30])
{
       FILE *f,*fp,*fp1,*fp2;
       time_t t;
       time(\&t);
       int i, n, valid = 0, flag = 0;
       char test, bikename[50];
       char vehicle[30], price[7], stock[7],stockLeft1[7],time[50];
       char tempBike[20];
```

```
char tempPrice[5];
      int stockLeft;
      Title();
      f = fopen("Rentals.txt", "a+");
      system("cls");
      printf("\n\t\t\t\t\t\t\t\t\----");
      printf("\n\t\t\t\t\t\t\t\t\t\t\= ENTER DETAILS");
      printf("\n\t\t\t\t\t\t\t\t\----\n");
bikename:
      =======:");
      printf("\n\t\t\t\t\t\t\t ENTER BIKE NAME\t: ");
      gets(s.bikename);
      /*for (i = 0; s.bikename[i] != '\0'; i++)
      {
            if (s.bikename[i] \ge 'a' \&\& s.bikename[i] \le 'z')
            {
                  s.bikename[i] = s.bikename[i] - 32;
            }
      }*/
      fp = fopen("viewFares.txt", "r");
      while (fscanf(fp, "%s %s %s\n", tempBike, tempPrice,stock) != EOF)
      {
```

```
if (strcmp(tempBike, s.bikename) == 0)
       {
              flag = 1;
       }
}
fclose(fp);
if (flag != 1)
{
       printf("\n\t\t\t\t\t\t\t\t PLEASE ENTER A VALID BIKE NAME!");
       goto bikename;
}
fp = fopen("viewFares.txt","r");
fp2 = fopen("newFares.txt","w+");
flag = 0;
while (fscanf(fp, "%s %s %s\n", vehicle, price, stock) != EOF)
{
       if (strcmp(vehicle, s.bikename) == 0)
       {
               stockLeft = atoi(stock);
              if(stockLeft>0)
               {
                      flag = 1;
                      stockLeft--;
```

```
itoa(stockLeft,stockLeft1,10);
                              fprintf(fp2, "%s %s %s\n", vehicle, price,stockLeft1);
                      }
                      else
                      {
                              itoa(stockLeft,stockLeft1,10);
                              printf("\n\t\t\t\t\t\t\t\t\NO STOCK OF THIS VEHICLE
!\n");
                              fprintf(fp2,"%s %s %s\n", vehicle, price,stockLeft1);
                      }
               }
              else
               {
                      fprintf(fp2,"%s %s %s\n", vehicle, price,stock);
               }
       }
       fclose(fp);
       fclose(fp2);
       remove("viewFares.txt");
       rename("newFares.txt","viewFares.txt");
       if(flag != 1)
       {
              goto bikename;
       }
```

```
do
     {
     printf("\n\t\t\t\t\t\t\t ENTER TIME PERIOD('x'days)\t: ");
          scanf("%i", &s.period);
          if (s.period > 10 \parallel s.period <= 0)
          {
                PERIOD TO RENT IS 10 DAYS.\n\n");
           }
     } while (s.period > 10 \parallel s.period <= 0);
     for(int i = 0;i < strlen(ctime(&t))-1;i++)
 {
          if(ctime(&t)[i] == ' ')
           {
                time[i] = '-';
           }
          else
           {
                time[i] = ctime(\&t)[i];
           }
```

```
}
      fprintf(f,"%s %s %i %s\n", s.bikename, username, s.period,time);
      printf("\n\n\t\t\t\t\t\t\t---- YOUR DESIRED BIKE IS RENTED
SUCCESSFULLY! ----");
      fclose(f);
      printf("\n\n\t\t\t\t\t\t\t\t\PRESS ANY KEY TO GO TO BILLING : ");
      getch();
      generateBill(username, s.bikename, s.period);
}
FUNCTION NAME: void generateBill(char[],char[], int)
void generateBill(char username[20], char bikename[20], int period)
{
      time_t t;
      FILE *fp = fopen("viewFares.txt", "r");
      time(\&t);
      char tempBike[20];
      char tempPrice[5],stock[7];
      float bill = 0;
      while (fscanf(fp, "%s %s %s\n", tempBike, tempPrice,stock) != EOF)
      {
             if (strcmp(tempBike, bikename) == 0)
```

```
{
                  bill = atoi(tempPrice) * period;
            }
      }
  system("cls");
printf("\n\t\t\t\t
                                Bike Rental - Customer Invoice
|");
  printf("\n\t\t\t\t) > USER NAME :
                                            %s\n", username);
      printf("\n\t\t\t\t\t
                        > CUSTOMER NAME
                                                :
                                                      %s\n", s.fullname);
      printf("\n\t\t\t\t\t
                        > BIKE MODEL
                                                  %s\n", s.bikename);
                                           :
      printf("\n\t\t\t\t\t
                        > ADDRESS
                                                 %s\n", s.address);
      printf("\n\t\t\t\t\t
                        > PHONENUMBER
                                                     % s\n",
s.phonenumber);
      printf("\n\t\t\t\t\t
                        > NATIONALITY
                                                   %s\n", s.nationality);
      printf("\n\t\t\t\t\t
                        > EMAIL
                                             %s\n", s.email);
      printf("\n\t\t\t\t
                        > NUMBER OF DAYS
                                                      \%i\n", s.period);
      printf("\n\t\t\t\t\t
                        > RENTED DATE & TIME :
                                                       %s\n'', ctime(&t));
      printf("\n\t\t\t\t\t
                              __\n");
                        > TOTAL RENTAL AMOUNT :
      printf("\n\t\t\t\t
                                                           Rs. %f", bill);
```

```
printf("\n\t\t\t\t\t_____
      printf("\n\n\t\t\t\t\t\tENTER ANY KEY TO PROCEED : ");
      getch();
      fclose(fp);
      UserMenu(username);
}
FUNCTION\ NAME\ : void\ ViewFares()
void ViewFares()
{
      system("cls");
      FILE *fp;
      char vehicle[20];
      char price[7];
      char stock[7];
      int y=12;
      Title();
      fp = fopen("viewFares.txt", "r");
      printf("\n\n\t\t\t\t\t\ ------ FARES OF VEHICLES PER DAY AND
STOCK ----");
                       printf("VEHICLE");
      gotoxy(55,10);
      gotoxy(75,10);
                       printf("FARE");
      gotoxy(90,10); printf("STOCK LEFT");
      printf("\n\t\t\t\t\t\t----");
```

```
while (fscanf(fp,"%s %s %s\n", vehicle,price,stock) != EOF)
       {
              gotoxy(55,y); printf("%s",vehicle);
              gotoxy(75,y); printf("%s",price);
              gotoxy(95,y); printf("%s",stock);
              y++;
       }
       fclose(fp);
       printf("\n\n\n\t\t\t\t\t\t\tENTER ANY KEY TO CONTINUE");
       getch();
}
FUNCTION NAME: void UserRentedList(char[])
void UserRentedList(char username[30])
{
       char user_name[50],time[50];
  FILE *f,*fp;
       int i, q = 9;
       fp = fopen("Rentals.txt","r");
       Title();
       system("cls");
       gotoxy(1, 6);
       printf("BIKENAME ");
       gotoxy(15, 6);
```

```
printf("NAME ");
       gotoxy(30, 6);
       printf("ADDRESS ");
       gotoxy(45, 6);
       printf("PHONENUMBER ");
       gotoxy(63, 6);
       printf("NATIONALITY ");
       gotoxy(83, 6);
       printf("EMAIL ");
       gotoxy(105, 6);
       printf("PERIOD \n");
       gotoxy(130, 6);
       printf("RENTED TIME \n");
       printf("\n");
       for (i = 0; i < 155; i++)
       {
              printf("-");
       }
       while(fscanf(fp,"%s %s %i %s\n", s.bikename, user_name, &s.period,time) !=
EOF)
       {
              if(strcmp(user_name,username) == 0)
              {
                     f = fopen("Register.txt", "r");
```

```
while (fscanf(f, "%s %s %s %s %s %s %s %s,",
s. username, s. password, s. full name, s. address, s. phone number, s. nationality, s. email, s. licens\\
e) != EOF)
                       {
                              if(strcmp(user_name,s.username) == 0)
                              {
                                      gotoxy(1, q);
                                      printf("%s", s.bikename);
                                      gotoxy(15, q);
                                      printf("%s", s.fullname);
                                      gotoxy(30, q);
                                      printf("%s", s.address);
                                      gotoxy(45, q);
                                      printf("%s", s.phonenumber);
                                      gotoxy(66, q);
                                      printf("%s", s.nationality);
                                      gotoxy(82, q);
                                      printf("%s", s.email);
```

```
gotoxy(107, q);
                                   printf("%i", s.period);
                                   gotoxy(122, q);
                                   printf("%s",time);
                                   q++;
                            }
                     }
                     fclose(f);
              }
       }
       gotoxy(0,q);
       for (i = 0; i < 155; i++)
              printf("-");
       fclose(fp);
       getch();
       UserMenu(username);
}
FUNCTION NAME: void UserSearch(char [])
void UserSearch(char username[20])
{
  system("cls");
       FILE *f,*fp;
```

```
char bikename[50],user_name[30],time[50];
       int flag = 1;
       fp = fopen("Rentals.txt","r");
       Title();
       if (fp == NULL)
       {
              printf("\n\n\t\t\t\t\t\t\tNO RECORD ADDED.");
              getch();
       }
       else
       {
              printf("\n\n\t\t\t\t\t\t\t\t\tENTER BIKENAME YOU WANT TO SEARCH :
");
              gets(bikename);
              while(fscanf(fp,"%s %s %i
%s\n",s.bikename,user_name,&s.period,time) != EOF)
              {
                      if (strcmp(bikename, s.bikename) == 0)
                      {
                             f = fopen("Register.txt", "r");
                             while (fscanf(f, "%s %s %s %s %s %s %s %s %s,n",
s.username, s.password, s.fullname, s.address, s.phonenumber, s.nationality, s.email, s.licens
e) != EOF)
                             {
```

```
if(strcmp(username,s.username)==0 &&
strcmp(s.username,user_name)==0)
                                   {
                                          flag = 0;
       =======");
                                          printf("\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\RECORD
FOUND(n");
                                          printf("\n\t\t\t\t\t\t\t\t\tBIKE NAME\t: %s",
s.bikename);
                                          printf("\n\t\t\t\t\t\t\t\NAME\t\t: %s",
s.fullname);
                                          printf("\h\t\t\t\t\t\t\t\ADDRESS\t\t: %s",
s.address);
                                          printf("\n\t\t\t\t\t\t\t\t\t\tPHONE NUMBER\t:
%s", s.phonenumber);
                                          printf("\n\t\t\t\t\t\t\t\t\t\tNATIONALITY\t:
%s", s.nationality);
                                          printf("\n\t\t\t\t\t\t\t\t\tEMAIL\t\t: %s",
s.email);
                                          printf("\n\t\t\t\t\t\t\t\t\t\t\t\t\t\LICENSE NO\t: %s",
s.license);
                                          printf("\n\t\t\t\t\t\t\t\t\t\tPERIOD\t\t:
%i",s.period);
                                          printf("\n\t\t\t\t\t\t\t\t\tRENTED TIME
%s",time);
```

```
}
                      }
                     fclose(f);
                }
           }
          if (flag == 1)
           {
                }
           getch();
  }
     fclose(fp);
     UserMenu(username);
FUNCTION\ NAME\ : void\ adminMenu()
void adminMenu()
{
     int choice, i = 0;
     time_t t;
     time(&t);
     system("cls");
     while (1)
     {
```

```
system("cls");
                                             printf("\n\n\t\t\t\t\t\t');
                                             for (i = 0; i < 80; i++)
                                                                    printf("-");
                                             printf("\n\t\t\t\t\t'");
                                             printf(" ----->>>> |MAIN MENU| <<<<------
---- ");
                                             printf("\n\t\t\t\t\t'");
                                             for (i = 0; i < 80; i++)
                                                                    printf("-");
                                             printf("\n");
                                             printf("\langle n \rangle n");
                      printf("\n\t\t\t\t\t\t\t\t\t\======="");
                                             printf(" \n\t\t\t\t\t\t Enter 1 ->> View Rental Record");
                      printf("\n\t\t\t\t\t\t\t\t======="");
                                             printf(" \n\t\t\t\t\t\t Enter 2 ->> View Vehicle Fares");
                      printf("\n\t\t\t\t\t\t\t\t======"");
                                             printf(" \hline \hlin
                      printf("\n\t\t\t\t\t\t\t\t\t\======"");
                                             printf(" \n\t\t\t\t\t\t Enter 4 ->> Remove A User");
```

```
printf("\n\t\t\t\t\t\t\t\t======"");
                          printf(" \n\t\t\t\t\t\t Enter 5 ->> Search a User");
printf("\n\t\t\t\t\t\t\t\t======"");
                          printf(" \n\t\t\t\t\t\t Enter 6 ->> Edit Record");
printf("\n\t\t\t\t\t\t\t\t======="");
                          printf(" \hline \hlin
printf("\n\t\t\t\t\t\t\======"");
                          printf("\n \h(t\t\t\t');
                          for (i = 0; i < 80; i++)
                                                     printf(">");
                          printf("\t\t\t\t\t');
                          for (i = 0; i < 80; i++)
                                                     printf("<");</pre>
                          scanf("%d", &choice);
                          fflush(stdin);
                          switch (choice)
                           {
case 1:
```

listOfRentals();

	break;		
case 2:			
	ViewFares();		
	break;		
case 3:			
	EditFares();		
	break;		
case 4:			
	delete();		
	break;		
case 5:			
	search();		
	break;		
case 6:			
	edit();		
	break;		
case 7:			
	WelcomePage();		
	break;		
default:			
	<pre>system("cls");</pre>		
	$printf("\n\t\t\t\t\t\t$	Incorrect Input");	
	printf("\n\t\t\t\t\t\t\t Press any key to continue");		

```
getch();
                                    adminMenu();
              }
       }
}
FUNCTION NAME: void listOfRentals()
void listOfRentals()
{
       FILE *f,*fp;
       int i, q = 9;
       char user_name[30],time[50];
       if ((fp = fopen("Rentals.txt", "r")) == NULL)
              exit(0);
       system("cls");
              Title();
       gotoxy(0,5);
       for (i = 0; i < 155; i++)
       {
              printf("-");
       }
       gotoxy(1, 6);
       printf("BIKENAME ");
       gotoxy(15, 6);
```

```
printf("NAME ");
       gotoxy(30, 6);
       printf("ADDRESS ");
       gotoxy(45, 6);
       printf("PHONENUMBER ");
       gotoxy(63, 6);
       printf("NATIONALITY ");
       gotoxy(83, 6);
       printf("EMAIL ");
       gotoxy(105, 6);
       printf("PERIOD \n");
       gotoxy(130, 6);
       printf("RENTED\ TIME\ \ \ \ ");
       for (i = 0; i < 155; i++)
       {
              printf("-");
       }
       printf("\n");
       while(fscanf(fp,"%s %s %i %s\n", s.bikename, user_name, &s.period,time) !=
EOF)
              f = fopen("Register.txt","r");
```

```
while (fscanf(f, "%s %s %s %s %s %s %s %s\n",
s. username, s. password, s. full name, s. address, s. phone number, s. nationality, s. email, s. licens and s. password and
e) != EOF)
                                                                                  {
                                                                                                                        if(strcmp(user_name,s.username) == 0)
                                                                                                                           {
                                                                                                                                                                  gotoxy(1, q);
                                                                                                                                                                  printf("%s", s.bikename);
                                                                                                                                                                  gotoxy(15, q);
                                                                                                                                                                  printf("%s", s.fullname);
                                                                                                                                                                  gotoxy(30, q);
                                                                                                                                                                  printf("%s", s.address);
                                                                                                                                                                  gotoxy(45, q);
                                                                                                                                                                  printf("%s", s.phonenumber);
                                                                                                                                                                  gotoxy(66, q);
                                                                                                                                                                  printf("%s", s.nationality);
                                                                                                                                                                  gotoxy(82, q);
                                                                                                                                                                  printf("%s", s.email);
```

```
gotoxy(107, q);
                             printf("%i", s.period);
                             gotoxy(122, q);
                             printf("%s",time);
                             q++;
                      }
              }
              fclose(f);
       }
       printf("\n\n");
       for (i = 0; i < 155; i++)
              printf("-");
       fclose(fp);
       getch();
}
FUNCTION NAME: void EditFares()
void EditFares()
{
       system("cls");
       Title();
       FILE *fp, *r;
       int flag = 0;
```

```
char vehicle[20], price[7], editVehicle[20], editPrice[7], stock[7], editStock[7];
fp = fopen("viewFares.txt", "r");
r = fopen("temp.txt", "w+");
printf("\n");
while (fscanf(fp, "%s %s %s\n", vehicle, price, stock) != EOF)
{
       printf("\n\t\t\t\t\t\t\t\s\t: %s\n", vehicle, price);
}
fclose(fp);
printf("\n\t\t\t\t");
for (int i = 0; i < 80; i++)
       printf("-");
fp = fopen("viewFares.txt", "r");
printf("\n\n\t\t\t\t\t\tENTER VEHICLE TO EDIT : ");
gets(editVehicle);
printf("\n\t\t\t\t\t\tENTER UPDATED PRICE : ");
gets(editPrice);
printf("\n\t\t\t\t\t\tENTER UPDATED STOCK : ");
gets(editStock);
while (fscanf(fp, "%s %s %s\n", vehicle, price, stock) != EOF)
{
       if (strcmp(vehicle, editVehicle) == 0)
```

```
{
                  flag = 1;
                  fprintf(r, "%s %s %s\n", editVehicle, editPrice,editStock);
            }
            else
            {
                  fprintf(r, "%s %s %s\n", vehicle, price,stock);
            }
      }
      if (flag != 1)
      {
            }
      fclose(fp);
      fclose(r);
      remove("viewFares.txt");
      rename("temp.txt", "viewFares.txt");
      getch();
}
FUNCTION NAME: void delete ()
void delete()
{
      FILE *f, *t;
```

```
int flag = 0;
       char custUserName[50], custName[50];
       if ((f = fopen("Register.txt", "r")) == NULL)
       {
              Title();
              printf("\n\n\t\t\t\t\t\t\t\tNO RECORD ADDED.");
              getch();
       }
       else
       {
              system("cls");
              Title();
              t = fopen("temp.txt", "w+");
              printf("\n\n\n\t\t\t\t\t\t\t\t\tENTER USERNAME OF COSTUMER TO
DELETE: ");
              gets(custUserName);
              while (fscanf(f, "%s %s %s %s %s %s %s %s\n",
s.username,s.password,s.fullname,s.address,s.phonenumber,s.nationality,s.email,s.licens
e) != EOF)
              {
                     if (strcmp(custUserName, s.username) == 0)
                     {
         flag = 1;
                     }
```

```
else
                     {
         fprintf(t, "%s %s %s %s %s %s %s %s\n",
s. username, s. password, s. full name, s. address, s. phone number, s. nationality, s. email, s. licens\\
e);
                     }
              }
              fclose(f);
              fclose(t);
              if (flag != 1)
              {
                     printf("\n\n\t\t\t\t\t\t\t RECORDS\ OF\ THIS\ COSTUMER\ ARE
NOT FOUND !");
                     getch();
              }
              else
              {
                     printf("\n\n\t\t\t\t\t\t\t\t\t
----\n");
              }
              remove("Register.txt");
              rename("temp.txt", "Register.txt");
              getch();
       }
```

```
adminMenu();
}
FUNCTION NAME: void search()
void search()
{
       system("cls");
      FILE *f,*fp;
      char username[50],name[50];
       char user_name[30],time[50];
       int flag = 1;
      fp = fopen("Rentals.txt","r");
       Title();
       if (f == NULL)
       {
             printf("\n\n\t\t\t\t\t\t\tNO RECORD ADDED.");
             getch();
       }
       else
       {
             printf("\n\n\t\t\t\t\t\t\t\tENTER USERNAME OF COSTUMER TO
SEARCH: ");
             gets(username);
    printf("\n\t\t\t\t\t\t\t\t\tENTER FULLNAME OF COSTUMER : ");
    gets(name);
```

```
while(fscanf(fp,"%s %s %i
%s\n",s.bikename,user_name,&s.period,time) != EOF)
           {
                 f = fopen("Register.txt", "r");
                 while (fscanf(f, "%s %s %s %s %s %s %s %s \n",
s. username, s. password, s. full name, s. address, s. phone number, s. nationality, s. email, s. licens\\
e) != EOF)
                 {
                       if(strcmp(username, s.username) == 0
&&strcmp(user_name,username) == 0)
                       {
                             flag = 2;
                             if(strcmp(name, s.fullname) == 0)
                             {
                                   flag = 0;
     ========");
                                   FOUND(n");
                                   printf("\n\t\t\t\t\t\t\t\t\tBIKE NAME\t: %s",
s.bikename);
                                   printf("\n\t\t\t\t\t\t\t\NAME\t\t: %s",
s.fullname);
                                   s.address);
```

```
printf("\n\t\t\t\t\t\t\t\t\t\tPHONE NUMBER\t:
%s", s.phonenumber);
                                           printf("\n\t\t\t\t\t\t\t\t\tNATIONALITY\t:
%s", s.nationality);
                                            s.email);
                                            printf("\n\t\t\t\t\t\t\t\t\t\t\t\t\LICENSE NO\t: %s",
s.license);
                                            printf("\n\t\t\t\t\t\t\t\t\t\t\tPERIOD\t\t:
%i",s.period);
                                            printf("\n\t\t\t\t\t\t\t\t\t\t\tRENTED TIME
%s",time);
                                    }
                             }
                      }
                      fclose(f);
              }
              if (flag == 1)
              {
                      printf("\n\t\t\t\t\t\t\t\t\tREQUESTED USERNAME COULD NOT
BE FOUND !");
              }
    else if(flag == 2)
     {
       printf("\n\t\t\t\t\t\t\t\t\t\THIS PERSON DID NOT RENT ANY BIKE WITH THE
```

USERNAME YOU ENTERED !");

```
}
              getch();
       }
       fclose(fp);
       fclose(f);
       adminMenu();
}
FUNCTION NAME: void edit()
void edit()
{
       FILE *f, *r;
       int k = 0, t = 0;
       char ed;
       char username[50], name[50], upName[30], upAddress[30], upPhno[15],
upNat[15], UpEm[35],upLicNo[30];
       long int size = sizeof(s);
       r = fopen("temp.txt", "w+");
       if ((f = fopen("Register.txt", "r")) == NULL)
       {
              Title();
              printf("\n\n\t\t\t\t\t\tNO RECORD ADDED.");
              fclose(f);
              fclose(r);
              getch();
```

```
}
     else
     {
          system("cls");
          Title();
          printf("\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\TER USERNAME OF COSTUMER TO
SEARCH: ");
          gets(username);
   printf("\n\n\t\t\t\t\t\t\t\t\t\t\tENTER FULLNAME OF COSTUMER : ");
   gets(name);
          while (fscanf(f, "%s %s %s %s %s %s %s %s \n",
s.username, s.password, s.fullname, s.address, s.phonenumber, s.nationality, s.email, s.licens
e) != EOF)
           {
     if(strcmp(username, s.username) == 0)
     {
       k = 2;
       if (strcmp(name, s.fullname) == 0)
       {
        t = 1;
        printf("\n\t\t\t\t\t\t\t
```

```
printf("\n\t\t\t\t\t\t\t\tEmail\t\: %s", s.email);
                                 printf("\n\t\t\t\t\t\t\t\t\tLicense No\t:%s",s.license);
           printf("\n\t\t\t\t\t\t\t\tEnter New Name
                                                   :");
           gets(upName);
           printf("\n\t\t\t\t\t\t\t\t\t\tEnter New Address
                                                   : ");
           gets(upAddress);
           printf("\n\t\t\t\t\t\t\t\t\tEnter New Phone number : ");
           gets(upPhno);
           printf("\n\t\t\t\t\t\t\t\t\t\t\tEnter New Nationality : ");
           gets(upNat);
           printf("\n\t\t\t\t\t\t\t\tEnter New Email
                                                  : ");
           gets(UpEm);
           printf("\n\t\t\t\t\t\t\t\tEnter updated license no :");
                                 gets(upLicNo);
           fprintf(r, "%s %s %s %s %s %s %s %s\n",
s.username,s.password,upName,upAddress,upPhno,upNat,UpEm,upLicNo);
         }
         else
         {
```

```
fprintf(r, "%s %s %s %s %s %s %s %s\n",
s. username, s. password, s. full name, s. address, s. phone number, s. nationality, s. email, s. licens\\
e);
          }
       }
       else
        {
          fprintf(r, "%s %s %s %s %s %s %s %s\n",
s. username, s. password, s. full name, s. address, s. phone number, s. nationality, s. email, s. licens\\
e);
       }
               }
               if (k == 0)
               {
                      printf("\n\nNO RECORD WITH THIS USERNAME !");
               }
     else if((k == 2) \&\& (t != 1))
     {
       printf("\n\nNO BIKES RENTED IN THIS ACCOUNT BY THE NAME YOU
ENTERED !");
     }
               fclose(r);
               fclose(f);
               remove("Register.txt");
               rename("temp.txt", "Register.txt");
```

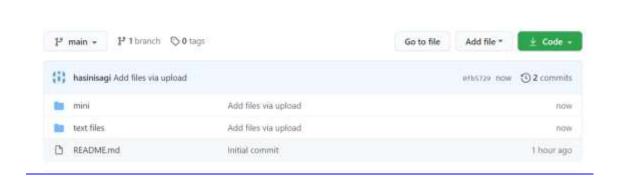
## **B.Github structure/folder**

We segregated the files of our mini project into folders. We also added report of our project on our github repository.

## **Github Repository links**

https://github.com/shravanimahanth/Bike-rental-system

https://github.com/hasinisagi/bike-rental-system-



## • Code folder contents:



#### • Files folder contents



# **C.TESTING**

TEST CASE TEMPLATE			
Test case ID : TC01	Use case ID:		
Test case title : Register			<b>UC01</b>
<b>Test case description</b> : Use	r has to enter details.		
Test steps	Expected result	Actual result	
The system allows the user to enter the correct details to create an account with their user name and password.	If the user doesn't enter details in correct format then system won't allow to enter further details.	invalid ph invalid na	message saying one number or me is displayed e in wrong

TEST CASE TEMPLATE			
Test case ID : TC01			Use case ID:
Test case title : Login (User	r)		<b>UC02</b>
<b>Test case description</b> : User has to enter password and user name.			
Test steps	Expected result	Ac	tual result
The system prompts the user to enter password and user name correctly .	A message saying login is successful is displayed on the screen and redirects to users home page.	A messag username displayed.	not found is

Test case ID: TC02			Use case ID:
Test case title : Login (user)			<b>UC02</b>
Test case description : Use	<b>Test case description</b> : User has to enter password and user name.		
Test steps	Expected result	Ac	tual result
The system prompts the user to enter password and user name correctly .	A message saying login is successful is displayed on the screen and redirects to users home page.	_	e saying wrong is displayed and try again.

Test case ID : TC03  Test case title : Login  Test case description : User has to enter password and user name.			Use case ID: UC02
Test steps	Expected result	Ac	tual result
The system prompts the user to enter password and user name correctly	A message saying login is successful is displayed on the screen and redirects to users home page.	successful	e saying login is I is displayed on and redirects to be page.

Test case ID : TC01 Test case title : View Renta Test case description : Use	al Fares or has to click on view rental f	ares	Use case ID: UC03
Test steps  After successful login the user is allowed to click on view rental fares to check price and stock available.	Expected result View Rental Fares page is displayed.		tual result tal Fares page is

Test case ID : TC01			Use case ID:
Test case title : Rent a Bike			<b>UC04</b>
<b>Test case description</b> : Use	er has to click on rent a bike		
Test steps	Expected result	Actual result	
User is allowed to enter bike to be rented which is in the list of rental fares.	Message saying Desired Bike is rented is displayed if the bike chosen is in list of the available bikes and allows to enter time period	Bike is relif the bike of the ava	saying Desired nted is displayed chosen is in list ilable bikes and enter time period

Test case ID : TC02  Test case title : Rent a Bike  Test case description : User has to press any key to generate bill after renting			Use case ID: UC04
Test steps	Expected result	Ac	tual result
User is allowed to enter bike to be rented which is in the list of rental fares and press any key to generate bill	Bill page is displayed with respective time ,date, user details and the total amount		is displayed with time ,date, user d the total

Test case ID: TC03			Use case ID:
Test case title : rent a bike			<b>UC04</b>
Test case description : Use	Test case description: User has to enter bike name		
Test steps	Expected result	Ac	tual result
User is allowed to enter bike to be rented which is in the list of rental fares and press any key to generate bill.	Message saying Desired Bike is rented is displayed if the bike chosen is in list of the available bikes and allows to enter time period	of bikes tl	s no availability nen message stock of this displayed

Test case ID : TC01  Test case title : View Renta  Test case description : Use	al Records er has to click on view rental r	ecords	Use case ID : UC05
Test steps	Expected result	Actual result	
User is allowed to view their rental records and verify.	Retal record page is displayed with the table displaying all the user details with respective date and time.	displaying	rd page is with the table all the user details ctive date and

Test case ID : TC01  Test case title : Search your rental record  Test case description : User has to click on Search your rental record			Use case ID : UC06
Test steps	Expected result	Ac	tual result
The system prompts the user to check the records of specific bike by entering bike name.	Rental record page is displayed with all the rental records rented by the user on specific bike.	displayed rental reco	ord page is with all the ords rented by the pecific bike.

Test case ID : TC02  Test case title : Search your rental record  Test case description : User has to click on Search your rental			Use case ID : UC06
record Test steps	Expected result	Ac	tual result
The system prompts the user to check the rental records of specific bike by entering bike name if that user rented.	Rental record page is displayed with all the rental records rented by the user on specific bike.	message i	ented by you s displayed if the ed is not rented account.

Test case ID : TC01 Test case title : exit			Use case ID : UC07
<b>Test case description</b> : Allows the user to exit from the user page .			
Test steps	<b>Expected result</b>	Ac	tual result
Admin chooses the exit option.	It should redirect the user to the welcomepage.	It will red the welco	irect the user to mepage

TEST CASE TEMPLATE			
Test case ID : TC01			Use case ID:
Test case title : Login (Adn	nin)		<b>UC08</b>
Test case description : Use	r has to enter password and us	ser name.	
Test steps	Expected result	Ac	tual result
The system prompts the Admin to enter password and user name .Admin enters the password and user name .Password entered is not same as the hard-coded one.	A message saying login is successful is displayed on the screen and redirects to Admin home page.	U	e saying wrong is displayed and try again.

Test case ID : TC02 Test case title : Login (Admin)			Use case ID : UC08
Test case description : Use	Test case description: User has to enter password and user name.		
Test steps	Expected result	Ac	tual result
The system prompts the user to enter password and username .Admin enters the password and username. Password and user name entered is same as the hard-coded one.	A message saying login is successful is displayed on the screen and redirects to users home page.	successfu	e saying login is I is displayed on and redirects to be page.

Test case ID : TC01			Use case ID:
Test case title: View rental records			<b>UC09</b>
Test case description : User has to click on view rental records			
Test steps	Expected result	Actual result	
Admin is allowed to view all the rental records.	Retal record page should be displayed with the table displaying all the user details with respective date and time.	displaying	d page is with the table all the user details ctive date and

Test case ID : TC01  Test case title : view vehicl  Test case description : Use	Use case ID : UC010	
Test steps	Expected result	Actual result
After successful login the user is allowed to click on view rental fares to check price and stock available to rent a bike.	View Rental Fares page is displayed.	View Rental Fares page is displayed.

Test case ID : TC01  Test case title : Edit Fares a  Test case description : Use	and Stock. er has to click on edit fares and	d stocks.	Use case ID : UC011
Test steps	Expected result	Ac	tual result
The system prompts the admin to enter vehicle name .Admin enters the vehicle name .vehicle entered doesn't exist.	It should change the price and the stock of the vehicle name we entered.		the message that e doesn't exist.

Test case ID: TC02			Use case ID:
Test case title: Edit Fares and Stock.			<b>UC011</b>
<b>Test case description</b> : User has to click on edit fares and stocks.			
Test steps	Expected result	Actual result	
The system prompts the admin to enter vehicle name .Admin enters the vehicle name .vehicle entered exist and updates the price and stock.	It should change the price and stock of the vehicle name we entered.	_	s the price and the he vehicle name d.

Test case ID: TC01  Test case title: Remove a u  Test case description: User the record.	ser r has to enter the username to	delete	Use case ID: UC012
Test steps	Expected result	Ac	tual result
The Admin is allowed to enter username. User enters the user name. Username entered doesn't exist in the records.	After entering the username all the record should be deleted on that username.	the record	s a message that ls of this are not found.

Test case ID: TC02  Test case title: Remove a user  Test case description: User has to enter the username to delete the record.			Use case ID : UC012
Test steps	Expected result	Ac	tual result
Admin is allowed to enter username. User enters the user name .Username entered exist in the records.	After entering the username all the record should be deleted on that username.		ering the all the record are that username.

Test case ID : TC01			Use case ID:
Test case title : Search a user			UC013
Test case description : Admin chooses search a user option.			
Test steps	Expected result	Actual result	
Admin is allowed to enter user name and full name of the customer. User name is not found.	The entered username and costumer records should be displayed.	_	ays the messages ired username be found.

Test case ID : TC02  Test case title : Search a user  Test case description : Admin chooses search a user option.			Use case ID: UC013
Test steps	Expected result	Ac	tual result
Admin is allowed to enter user name and full name of the customer. User name is found.	The entered username and costumer records should be displayed.		ed username and records are being .

Test case ID : TC01  Test case title : edit user  Test case description : Admin chooses the edit user option.			Use case ID : UC014
Test steps	Expected result	Actual result	
Admin is allowed to enter user name and full name of the customer. User name is not found.	After entering the details it allows us to edit the details.	shows no	ering the details is records with this e is displayed.

Test case ID : TC02  Test case title : edit user  Test case description : Admin chooses the edit user option.			Use case ID : UC014
Test steps	Expected result	Actual result	
Admin is allowed to enter user name and full name of the customer. User name is found.	After entering the details it allows us to edit the details.	After entering the details it allowed us to edit the details.	

Test case ID: TC01	Use case ID:		
Test case title : exit	<b>UC015</b>		
Test case description : A	llows the user to exit from the	user page	
Test steps	Expected result	Actual result	
Admin chooses the exit option.	It should redirect the user to the welcomepage.	It will red the welco	irect the user to mepage

# **RESULT**

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------ FARES OF VEHICLES PER DAY AND STOCK -----

VEHOCLE	FARE	STOCK LEFT
***************************************		
ACTIVA	600	e e
PARSTRO	700	- 6
SUPSTER	500	ė
010	500	2
PLEASURE	500	5
ACCESS	766	- 5
PULSAR	800	5
NS280	500	5
KYPI-DUKE	1500	15
811	1,780	4

ENTER ANY KEY TO CONTINUE

Enter 1 ->> View Rental Record

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Enter 2 ->> View Rental Record

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GIO : 500
PLEATURE : 500
ACCES : 700
PULSAR : 600
MS200 : 500
FITH-DURE : 1500
FIT : 1500

ENTER VEHICLE TO EDIT : PLEATURE
ENTER VEHICLE : 500
ENTER INDATED STOCK : 7

"Sqlect and Enter Your Choice From Manu\*:

"Sqlect and Enter Your Choice From Manu\*:

Enter 1 ->> View Rental Record

Enter 2 ->> View Vehicle Fares

Enter 3 ->> Edit Fares and Stock

Enter 5 ->> Search a User

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SSSS BEKE RENTAL SYSTEM CCCC------

------ FARES OF VEHTCLES PER DAY AND STOCK ------

	VEHICLE	PARE	STOCK LEFT
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	ACTIVA	688	9
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	010	500	2
	PLEASURE	600	
	ACCESS.	786	5
	PLASAR	900	35
	H5200	998	5
	KTRI-DUKE	1500	35
	R15	1200	2.94

ENTER ANY NEY TO CONTINUE.

### ### ##############################	**Select and Enter Your Choice From Peru*:  Enter 1 ->> View Mental Record  Enter 2 ->> View Mental Record  Enter 3 ->> Edit Fares  **Ther 3 ->> Edit Fares and stock  Enter 4 ->> Remark A User  Enter 5 ->> Search a User  Enter 5 ->> Search a User  Enter 5 ->> Edit Macord  Enter 7 ->> Exit  **Ther 7 ->> Exit  **Ther 7 ->> Exit  **Ther 8 ->> Exit Macord  **Ther 8 ->> Exit Macord  **Ther 9 ->> Exit Macord  *		
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BECORD FOLKE

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NAME : SHRAWARE

ACCORDS : ORLANT

ANTIONALITY : INDIAN

ENTI : MARGANIL CON

LICENSE NO: : 12345

PERSON

BENE MANNE : JUPITER

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LICENSE : DELMI

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NATIONALITY : INDIAN

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BENETED TIME : Fri-Dec-18-14:12:36-2008

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	*** New Record ***	
	Enter New Address   SHEAMONI	
	Enter New Phone number : 1234567898	
	Enter New Nationality : INDIAN	
	Enter New Enail : HASBOMAIL.COM	
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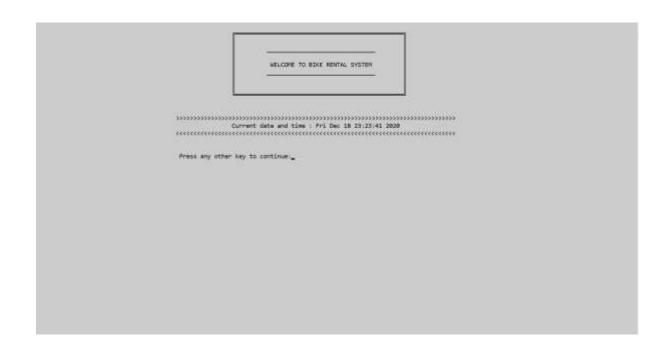
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SSSS BEER RENTAL SYSTEM (CCC
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ENTER USERNAME OF COSTUMER TO DELETE : HASDIG
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## What is the additional knowledge gained as a result of implementing this mini project apart from the syllabus covered in the course programming for problem solving?

Apart from the syllabus covered in the course programming for problem solving we have learnt how to change the background colour of the console also we have learnt how to set the curser position at desired location in c program. We have also learnt the functionality of <time.h> header file which contains time and date function declarations to provide standardized access to time/date.

This project really helped us to know the various real world application of c programming and know the essence of this language.

## **Conclusion and Future work**

While making of the project "BIKE RENTAL SYSTEM" we made our progress by solving a number of problems. Solution to each problem by ourselves was the most important part of the project and this provided us with experiences which will help us in future.

We came to know that how we can use concept of files in c programming language in storing data ,reading and writing in file as well . Also we learnt the use of structures , arrays in solving real life problems

Some important things that we learned include designing a good program architecture and converting real life situations into an efficient code, and how to write an good looking easily readable and understandable as well as time and memory efficient code.

Also, in future we are thinking to build a feature called Rent for friend which allows users friend to rent a bike through users account and also we are thinking to set up this console based project as an application based project

## References

The References we used in this project are

- 1. www.google.com
- 2. www.geeksforgeeks.org c
- 3. Kernighan and Ritchie "The C Programming Language", 2nd ed, 1988, (The "K&R". The Bible for the C language)