**Project Name: Car Rental**

**Group:6(B2)**

**Languages & Framework: C#, JS, Asp.NET, Bootstrap**

**Database Used: SQL Server**

**Project Documentation**

**1.Master Page (Home. Master)**

1. **Frontend Functions (script tag):**

**A.1. Functionality:**

Tracks the time of audio that is being played even after page loads.

**A.2. Used functions:**

**1.myFunc():**

Initiates audio and **getCookie()** and calls **update()** with interval with timer.

**2.getCookie():**

Gets how much time has gone on audio.

**3.update():**

If true:

If the song was playing:

Plays from that point

else:

plays from start

else:

**setCookie()** with timeplayed and the current song

**B. Backend Functions:**

**B.1. Functionality:** Homepage display for registered, admin, non-registered

**Page\_load():**

Different Link buttons set to true or false to optimize the page.

**LinkButton3\_Click():**

Logout option for all

**B.2. Functionality:** Notification to Admin (User not created)

**Sendnotification():**

To send notification message to admin using **ContactUsList** Data table in Database.

**B.3. Functionality:** Saves the Cart Option if page reloads or other unexpected things happen

**SavedCartNotification():**

Counts the number of items in cart and show it to user when he logs in after unexpected shutdown or log out.

**2. HomePage:**

**2.A. Backend functions:**

**Functionality:** Notifies user if current date is the date to pick up or return car

**CheckIfTodayisPickupReturnDate():**

Checks from **OrderDetails** Table after payment and notifies user.

**Registration Module**

**3. User Signup & Login(admin & user):**

**3.A. Functionality: Signup**

**Button1\_Click():**

All checks are happened here and then signs up the user

**bool Checknid():**

**Task:** Checks the user input with the dummy nid info in **NidList** Table

if true:

error message

else:

if(**CheckEmail(),checkuser(),checkage()**):

show error message for duplicate user,email and age < 21

else:

**signupnewuser():**

task: signs the new user

**Functionality:Login**

**Button1\_Click():**

Checks User ID (Primary Key) and password with database stored values.

**User Related Pages**

**4. About Us:**

**Backend:**

**4.A. Functionality:** Contact us message saved and show that to admin

**Functions Used:**

**Button1\_Click():**

Saves the information in **ContactusList** Table in Database

**5.User Profile:**

**5.A. Functionality:** Shows user info, can updater password

**Functions Used:**

**updateUserPersonalDetails():**

Updates user id and password

**getUserPersonalDetails():**

Shows user details

**GridView1\_RowDataBound (), GridView1\_RowDeleteting ():**

For returning the car and upon returning it will calculate days and change the status to pending if not returned in time and also updates the car list

**6. View Users Car:**

**6.A. Functionality:** Shows all from **CarList** Table in database or more precisely from Car Inventory Admin Page where the admin adds new cars to the list.

**6.B. Functions used:**

**CheckIfUserHasRented ():** (Applied only for services where it will take more than 1 day)

If user has a car rented more than 1 day, he or she won’t be able to rent any more cars.

**GetImage(String carid):**

Gets the image of the respected car id from database

**GridView1\_RowCommand():**

To go to each cars individual page consisting of their images from all sides and reviews.

Individual Cars Pages(one is documented here as all will be same except images and reviews)

**6.a. Yaris.aspx:**

**6.a.A. Frontend:**

**Showslides(slides.length):**

Will show the slides images with current slides being active and others inactive

**plusSlides(slides.length):**

will be called when we press the left or right button

**6.a.B. Backend:**

**Functionality:** Checks for login details and account status

**Function used: Button1\_Click()**

**7.Driving Options**

**2** types: self and with driver

**7.A. Functionality:** Self driving disabled if no driving license

**7.B. Functions used: CheckDrivingLicense()**

**7.C. Functionality:** Saves the cart for checkout later

**7.D. Functions used:**

**Addsavedcart()**

**7.E. Functionality:** Check for valid dates and subtotal of each items

**7.F. Functions used:**

**Checkdates():** to check for valid dates

**CheckdaysExceed ():**

For daily and monthly days barrier of not more than **15** and **5** days.

**Subtotal():**

Does the subtotal of each item and store them in **SavedCart** Table with individual unique Orderid.

**7.G. Functionality:** to trigger the add to cart button and add extra for round trip for airport service

**7.H. Functions used:**

**Check\_checkedChange(),**

**Check1\_checkedChange(),**

**Check2\_checkedChange()**

**8.Saved Cart**

**8.A. Functionality:** Show Grand Total of all items

**8.B. Functions Used: GrandTotal()**

But checks for if it is the **first time** payment .

**8.C. Functions used:**

**bool FirstPayment()**

if true:

go with the grand total

else:

**10%** discount on grand total

**8.D. Functionality:** Delete from cart

**8.E. Functions used:**

**GridView1\_RowDataBound()** for confirming the delete

**GridView1\_RowDeleting()** for deleting the row

**9. paymentGateway:**

**PageLoad():**

Calls the **Paypal API** with the **buyer** account

**10.Payment Success Page:**

**10.A. Functionality:**

Add order details to database to notify when the time comes , Store payment info for delivering and delete the saved cart as no items are there now.

**10.B. Functions used:**

**OrderDetails(), PaymentInfo(),DeleteCart()**

**Admin Pages**

**Admin Pages:**

1. **Brand Details:**

**1.A. Functionality:** add,delete,update brands of cars

**1.B. Functions used:**

**Addnewbrand(),deletebrand(),**

**updatebrand(),**

**cleartable()** to clear the input fields,

**checkBrandID()** to stop duplicate id

**2.Model and services:**

**2.A. Functionality:** same as brand details.

**checkModelID()** to stop duplicate id

**3.Member Management :**

**3.A. Functionality:** Delete user or ban them with pending or deactivate status

**Functions used:**

**getuserid()** to get the user info

**CheckIfUSerexists()** to check if user is in the list

**DeleteUser()** to delete the user

**Updatememberstatus()** to update the status of a user

**4.Car Inventory**

**4.A.Functionality:**

Uses data from services,brand,model to add,update,delete car details

**4.B.Functions Used:**

**LinkButton4\_Click():**button action to initiate **GetCarByID()**

**GetCarByID():** to get the car details

**Add/Update/DeleteCarByID():**to add, update and delete car

**CheckcarID():**To check if car with the input id exist

**FillBrandModel():**To fill the input boxes automatically when page loads

**5.Payment Info**

**5.A. Functionality:**

Shows the orders and payments info of the user and delete orders older than **10** days.

**5.B. Functions used:**

**OldOrderDetails(),**

**GridView1(),**

**GridView2()**

**Work Distribution**

**ID:17.01.04.089**

**3.Registration Module includes:**

UserSignup.aspx,UserLogin.aspx,AdminLogin.aspx

**4.View Users Car includes:**

ViewUserCar.aspx and individual pages of the cars

**ID:17.01.04.084**

**User related pages(No. 1,2,4 of User related pages):**

[Home.Master, Homepage.aspx](http://Home.Master,Homepage.aspx), AboutUs.aspx

**Admin related pages(No. 4 of admin pages):**

CarInventory.aspx

**ID:17.01.04.100**

**Admin related other pages(No. 1,2,3 of Admin pages) includes:**

AdminCarBrand.aspx, AdminCarModel.aspx, MemberManagment.aspx

**User related page:**

Services.aspx

**ID:17.01.04.104**

**User related page(No. 5,7,8,9,10 of user pages):**

userProfile.aspx

**Payment Module:**

DrivingOptions.aspx, PaymentGateway.aspx, SavedCart.aspx,

PaymentSuccess.aspx

**Admin pages(5 of admin pages):**

PaymentAdmin.aspx