

**CSCI 571- HW 3**  
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My website is a car rental service providing website. For this assignment, I have created the customer side of the website. The customers can view the main page to can check out what cars are available for rent without logging in. But **before adding a car to the cart for reservation the customer needs to signup/login**. Once the car is added to the cart, the customer can select add on services like GPS, Satellite radio and Child Seats to add to his/her rental. The customer can view his cart while shopping and can delete products from the cart or completely empty the cart. **Deleting a car from the cart will also lead to deletion of the add on services for that rental from the cart**. Once the customer is done filling up his/her cart, he/she can proceed to checkout. The customer can change the payment and shipping details here if he/she wishes and then click on purchase. On the main page the customer can go to his profile. Here the customer can see all his/her details. From the profile page, the customer can update his details or view his past orders. On the company side of the website, I have **added Order Reports for managers**. The managers can view reports of orders based on the date of ordering and the total cost of orders. They can also view Sales reports by car based on dates of reservations, car category and whether in special sales or not.

**Extra Credit Assignment:** Whenever a customer places an order, I keep track of add on services a customer purchases with his/her rental. Whenever some other customer chooses the same car, a note is shown on the add on selection page that customer who booked that car also purchased these add ons. I display the 2 most purchased add ons with that car.

The first page of the website is the mainPage.php page that can be accessed using the following URL: <http://cs-server.usc.edu:9046/CSCI571HW/mainPage.php>

**I have put in three company side users:**

Administrator : username: admin  
password: admin

Employee: username: emp  
password: emp

Manager: username: man  
password: man

**I have also put in 2 customers:**

Customer1: username: user1  
password: user1

Customer2: username: cust1  
password: cust1

My database structure is as follows:-

## Database carRentalDB

### Table structure for table AddOnProducts

Field	Type	Null	Default
<b><i>productId</i></b>	int(10)	Yes	NULL
productName	varchar(50)	Yes	
productPrice	int(10)	Yes	
prouctImage	varchar(50)	Yes	

### Dumping data for table AddOnProducts

1	GPS Navigation	10	GPS.jpg
2	Satellite Radio	10	satelliteRadio.jpg
3	Child Seat	15	childSeat.jpg

### Table structure for table Cars

Field	Type	Null	Default
<b><i>carId</i></b>	int(11)	Yes	NULL
carCategoryId	int(11)	Yes	
carManufacturer	varchar(20)	Yes	
carModel	varchar(20)	Yes	
carManufactureYear	int(4)	Yes	
carRegistrationNumber	varchar(15)	Yes	
carInsurancePolicyNumber	varchar(20)	Yes	
carDescription	varchar(150)	Yes	
carPrice	int(11)	Yes	
carScheduledMaintenance	date	Yes	
carImage	varchar(100)	Yes	

## Dumping data for table Cars

1	1	Ford	Fiesta	2013	JA243H	I6987443	SE 4 door Sedan (1.6L 4cyl 5M)	45	2013- 08-01	ford_fiesta_2013.jpg
2	1	Honda	Fit	2013	JU73U7	I8930001	4door Hatchback (1.5L 4cyl 5A)	45	2014- 10-08	honda_fit_2013.jpg
7	1	Fiat	500	2012	12J899	I9031413	Pop 2 door Hatchback (1.4L 4cyl 5M)	45	2014- 09-10	fiat_500_2012.jpg
9	1	Toyota	Yaris	2011	TOY014	I8310312	LE 4 door Hatchback (1.5L 4cyl 4A)	45	2014- 11-05	toyota_yaris_2013.jpg
10	2	Mazda	Mazda 3	2014	MZDA88	I7812317	4-door compact (1.5L 4Cyl)	50	2014- 12-23	mazda_mazda3_2014.jpg
11	2	Honda	Civic	2014	HON655	I7731980	2-door (1.5L 4Cyl)	50	2014- 11-12	honda_civic_2014.jpg
12	2	Chevrolet	Cruz	2013	CHEVY2	I9838992	4-door (1.5L, 4Cyl)	50	2014- 10-22	chevrolet_cruz_2013
13	2	Ford	Focus	2013	FFO334	I4627322	4-door (1.5L, 4Cyl)	50	2014- 08-21	ford_focus_2013.jpg
14	3	Chevrolet	Impala	2014	IM367A	I6778998	4-door (2.4L, 4Cyl)	55	2014- 11-05	chevrolet_impala_2014.jpg
15	3	Kia	Cadenza	2013	KICA56	I6381888	4-door (2.4L, 4Cyl)	55	2014- 09-24	kia_cadenza_2013.jpg
16	3	Toyota	Avalon	2014	67TF88	I7838847	4-door (2.4L, 4Cyl)	55	2014- 11-19	toyota_avalon_2014.jpg
19	3	Dodge	Charger	2013	DOCH65	I889969	4-door (2.4L, 4Cyl)	55	2014- 08-12	dodge_charger_2013.jpg
20	4	Honda	CR-V	2013	CRV676	I0013123	4-door (2.5L, 4Cyl)	60	2014- 11-19	honda_crv_2013.jpg
21	4	Mazda	CX-5	2013	MZD78A	I5567456	4-door (2.5L, 4Cyl)	60	2014- 12-03	mazda_cx5_2013.jpg
22	4	Nissan	Rogue	2013	NROGU3	I4437262	4-door (2.5L,	60	2014-	nissan_rogue_2013.jpg

							4Cyl)		08-27	
23	4	Ford	Escape	2013	FO7665	I8376249	4-door (2.5L, 4Cyl)	60	2014-11-26	ford_escape_2013.jpg
24	5	Chevrolet	Tahoe	2014	TAHOE4	I7912001	4-door (3L, 4Cyl)	70	2014-12-10	chevrolet_tahoe_2014.jpg
25	5	GMC	Yukon	2013	YU8GMC	I7632911	4-door (3L, 4Cyl)	70	2014-10-29	gmc_yukon_2013.jpg
26	5	Chevrolet	Suburban	2013	CH5SUB	I4527819	4-door (3L, 4Cyl)	70	2014-11-19	chevrolet_suburban_2013.jpg
27	5	Ford	Expedition	2013	EXPDN8	I9902999	4-door (3L, 4Cyl)	70	2014-12-17	ford_expedition_2013.jpg

## Table structure for table CustomerCarts

Field	Type	Null	Default
<b>cartEntryId</b>	bigint(20)	Yes	NULL
customerUsername	varchar(40)	Yes	
location	varchar(50)	Yes	
productId	int(10)	Yes	
productPrice	int(10)	Yes	
fromDate	date	Yes	
toDate	date	Yes	
numberOfDays	int(10)	Yes	
totalCost	float	Yes	
productType	varchar(20)	Yes	

## Table structure for table Customers

Field	Type	Null	Default
<b>username</b>	varchar(30)	Yes	
password	varchar(30)	Yes	
customerFname	varchar(30)	Yes	
customerLname	varchar(30)	Yes	
customerDob	date	Yes	
customerAge	int(10)	Yes	0
customerEmail	varchar(30)	Yes	
customerPhone	varchar(20)	Yes	NULL
customerAddress	varchar(100)	Yes	
customerCCNumber	varchar(16)	Yes	
customerCCName	varchar(60)	Yes	

customerBillingAddress	varchar(100)	Yes	
customerCCCVV	int(3)	Yes	
customerCCExpDate	varchar(7)	Yes	
<b>customerId</b>	int(10)	Yes	NULL

## Table structure for table Employees

Field	Type	Null	Default
<b>empId</b>	int(10)	Yes	NULL
empUserId	int(10)	Yes	
empfname	varchar(20)	Yes	
emplname	varchar(20)	Yes	
empGender	varchar(10)	Yes	
empDOB	date	Yes	
empSSN	varchar(20)	Yes	
empAddress	varchar(100)	Yes	
empJoiningDate	date	Yes	
empJobTitle	varchar(20)	Yes	
empSalary	int(10)	Yes	
empDepartment	varchar(20)	Yes	
empType	varchar(20)	Yes	
empYearsOfExp	int(10)	Yes	NULL
empEmail	varchar(40)	Yes	
empPhone	int(10)	Yes	

## Table structure for table Orders

Field	Type	Null	Default
<b>orderId</b>	int(10)	Yes	NULL
customerUsername	varchar(30)	Yes	
orderDate	date	Yes	
totalCost	float	Yes	
billingAddress	varchar(100)	Yes	
shippingAddress	varchar(100)	Yes	

## Table structure for table ProductCategories

Field	Type	Null	Default
<b>productCatId</b>	int(11)	Yes	NULL

productCatName	varchar(20)	Yes	
productCatDesc	varchar(200)	Yes	

## Dumping data for table ProductCategories

1	Economy	Rent an economy car for driving in crowded, downtown areas with busy traffic and tight parking space.
2	Compact	Compact cars offer great gas mileage and the ease of driving and parking in high traffic areas.
3	Full Size	A full size car rental provides enough room to fit up to 5 passengers comfortably.
4	Standard SUV	A Standard SUV has room to seat 5 passengers and has a split rear seat for hauling bulky items
5	Large SUV	A large, full size SUV rental offers a powerful engine and many features, including cruise control,

## Table structure for table ProductsOrdered

Field	Type	Null	Default
<b>productsOrderedId</b>	int(10)	Yes	NULL
orderId	int(10)	Yes	
productId	int(10)	Yes	
productPrice	float	Yes	
productType	varchar(30)	Yes	
fromDate	date	Yes	
toDate	date	Yes	

## Table structure for table RentalLocations

Field	Type	Null	Default
<b>locationId</b>	int(10)	Yes	NULL
location	varchar(40)	Yes	
locationPhone	varchar(20)	Yes	

## Dumping data for table RentalLocations

1	Los Angeles Airport(LAX)	(213) 668-1000
2	Los Angeles - Hilton Hotel	(213) 343-0000
3	Los Angeles - Culver City	(213) 787-0000

4	San Francisco Airport(SFO)	(213) 665-1000
5	San Francisco - Hilton Hotel	(213) 789-0000
6	San Francisco - Caltrain Station	(213) 546-0000

## Table structure for table SpecialSales

Field	Type	Null	Default
<i>specialSalesId</i>	int(10)	Yes	NULL
specialSalesProductCatId	int(10)	Yes	
specialSalesStartDate	date	Yes	
specialSalesEndDate	date	Yes	
specialSalesDiscountPercent	int(10)	Yes	

## Dumping data for table SpecialSales

6	2	2014-07-15	2014-11-25	20
9	3	2014-07-15	2014-07-30	10

## Table structure for table Users

Field	Type	Null	Default
<i>userId</i>	int(10)	Yes	NULL
<b>username</b>	varchar(20)	Yes	
password	varchar(50)	Yes	
userType	varchar(20)	Yes	

## Table structure for table CarsAddOns

Field	Type	Null	Default
<i>calId</i>	int(10)	Yes	NULL
carId	int(10)	Yes	
addOnId	int(10)	Yes	
count	int(10)	Yes	

I have also used SESSION variable to maintain user Sessions. I have set the timeout period to be 600 seconds = 10 minutes.

The files in my project are:-

1. addUpdateCarCategories.php
2. addUpdateCars.php
3. addUpdateEmployee.php
4. addUpdateSpecialSales.php

The above pages are for adding and updating employee and product records in the database

5. adminMainPage.php – This is the landing page for administrators after login
  6. cartMain.php – This is the page for the shopping cart
  7. checkCustomerUsernameAvailability.php – Checks if username selected by a new customer is available or not
  8. checkoutMain.php – The page for checkout
  9. chooseAdditionalFeatures.php – Page for customers to choose additional services for their rentals
  10. customerLogin.php – Login page for customers
  11. customerMainPage.php – Customer Profile Page
  12. customerSignup.php – Signup form for customers
  13. customerStoreAfterSignup.php – Storing customer data after signup
  14. customerStoreAfterUpdate.php – Storing customer data after update
  15. customerUpdate.php – Customer Update form
  16. deleteCar.php
  17. deleteCarCategory.php
  18. deleteCartItem.php
  19. deleteEmployee.php
  20. deleteSpecialSales.php
- The above pages are used to delete records from the database.
21. employeeMainPage.php – Landing page for employees after logging in.
  22. login.php – login page for company side users
  23. logout.php – Page for ending session and logging out users.



- 24. mainPage.php – Landing Page for the website.
- 25. managerMainPage.php – Landing page for managers after login
- 26. populateCars.php – Populate cars from car category
- 27. receiptMain.php – Checkout confirmation Page
- 28. searchEmpBySalary.php
- 29. searchEmpByType.php
- 30. searchOrders.php
- 31. searchProdByCat.php
- 32. searchProdByPrice.php
- 33. searchProductByName.php
- 34. searchResults.php
- 35. searchSales.php
- 36. searchSsByCat.php
- 37. searchSsByED.php
- 38. searchSsByPN.php
- 39. searchSsByPrice.php
- 40. searchSsBySD.php

The above files are used for querying the database and for report generation for managers.

- 41. setItinerarySessionVariables.php – Setting Session variables
- 42. showAllOrders.php – Show customer's past orders.

- 43. storeCarCategoriesData.php
- 44. storeCarsData.php
- 45. storeEmployeeData.php
- 46. storeSpecialSalesData.php

The above files are used to store data into the database

- 47. updateCartTotalPrice.php – Used to update total cost of items in the cart.