

Deadline: 10<sup>th</sup> June 2018

Subject: Online Car Rental Reservation System

# Group Project Requirements

## Deliverables

- Project & DB SQL (85 marks)
- Document detailing additional features (10 marks) *add to README.md on GitHub*
- Test plan how to test system for the functional requirements (5 marks)

## Requirements – Misc.

- Consistent navigation (navbar)
- Professional look & user friendly (basic design).
  - o Use windows controls such as drop-down lists, buttons etc. where appropriate.
- Input validation. Invalid data should result in an appropriate error message.
- Have enough test data to test all functionality thoroughly.
- Extra: Multiple Language Support

## Requirements – Basic Site

### Homepage

Car search for rental. Search options:

- Paginate search results
- “Book Multiple Now” button at top of search conditions.
- Preferred start and end dates.
- Car category (Any, SUV, Sedan, Hatchback, Sport, Minivan/Van, Convertible, Pickup Truck, Hybrid/Electric)
- Car manufacturer (Any, Toyota, Ford, etc. Auto-populated from the manufacturers in database with existing cars)
- Car model (Any, auto-populated based on available car models of the chosen category for chosen manufacturer)
  - o E.g. Category Sedan, Manufacturer Nissan, Models shown are Sunny, Altima, Sentra, Maxima
- Daily price range slider min-max
- “Search” button. When clicked, the shown list of cars changes based on search criteria.

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- Each car listing:
  - o Availability dates, Car daily price, Car Image, “Add to Booking” button
  - o Car title (Car manufacturer, Model, Year) e.g. Nissan Maxima 2015 Model
  - o “Book Now” button for choosing only one.
  - o Checkbox on listings to select multiple cars for booking at once.
  - o Extra: Checkbox selected listing remains visible & selected when search criteria changed. Disappears when not.

### Create Reservation Page

- Page accessible from clicking “Book Now” buttons on individual listings, or “Book Multiple Now” button at top of search bar.
- If customer not logged in, redirect to login screen.
- Extra: Pass collected car selections info to **login**, or to **registration**, then redirect back to **Create Reservation** page after successful login with the selected info.
- Pre-Populated fields: Selected cars in booking, dates from search criteria.
- “Cancel” button. Redirects to **homepage**.
- “Next” button. Pops up/shows “Additional Car Accessories” screen.
- **Car Accessories Screen** allows selecting accessories (car child seat, screens, navigation).
- Each accessory with checkbox for selecting multiple.
- “Skip” button for not selecting any accessories.
- “Add to Booking” button to add the accessories to the booking and direct to **Checkout** page.

### Checkout Page

- Pre-populate fields with logged in customer’ info.
- Pre-populate fields with selected cars & accessories.
- Show total cost based on cars’ total daily price \* days booked.
- “Cancel” button. Discard reservation and redirect back to **homepage**.
- “Confirm” button. Direct to **Payment** page.

### Payment Page

- Customer CPR field (Extra: Pre-populate from logged in Customer’s info”)
- Customer full name (From logged in user’s info)

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- Customer nationality (Extra: Pre-populate from logged in Customer's info")
- Customer's phone number (From logged in user's info)
- Customer billing address (Extra: Pre-populate from logged in Customer's info")
- Payment type (Cash / Credit Card)
- If credit card chosen, then show Card Details fields (Visa/MasterCard/American Express, Card Number, Expiry Date, Security Number)
- "Confirm Booking" button. **Booking Summary Screen** is shown with the newly created booking's unique reservation code.

#### Customer Reservations Page

- Shows list of customer's reservations with their unique reservation code, start date, end date.
- "Edit" button on each listing. Redirects to **Edit Reservation** page. Only accessible up to 2 days before start date. Greyed out after.
- "Update Booking" button. Shows alert that a 10% surcharge will apply for updating booking.
- Alert with "Cancel" button, redirects to **Customer Reservations** page.
- Alert with "Confirm" button, updates the reservation record with 10% higher cost.
- "Cancel Booking" button on each listing. Shows alert "Are you sure you want to cancel this booking? You will be refunded if already charged.". If confirmed, the booked car(s) are freed up for those dates.

#### Edit Reservation Page

- Shows all reservation's fields in editable format.
- Booked cars can be changed by adding a car's unique ID code directly.

#### Registration Page

- Create new user account fields:
  - Full name (first, middle, last)
  - Email
  - Password
  - Optional: Confirm Password
  - Optional: Credit Card info
  - Optional: reCAPTCHA

#### Login Page

- If logged in user is admin user role, redirect to **Administrators Portal homepage**.
- Fields:

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- Email
- Password
- Optional: reCAPTCHA

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## Requirements – Administrators Portal

- Navbar changes to administrators Portal Navbar

## Homepage

- Copy-paste the search functionality in homepage without checkboxes and booking buttons.

## Reports Pages

- Most popular reserved cars report
- Monthly sales revenue report

## Requirements - User Roles

### User Role: Customer

- Access to the full system except **Administrators Portal**.
- Access to their own bookings only.

### User Role: Administrator

- Access to the full system & its data.
- Automatically redirected to **Administrators Portal** instead of Homepage upon login.