

Assignment 2: Marking Scheme

1. Homepage [3 marks]

- The homepage automatically shows cars in a grid layout. [1 mark]
- A logo should appear on all major pages of the website, including the homepage. [0.5 mark]
- User can click the website logo at any time to get to the website's homepage. [0.5 mark]
- A "Reservation" icon appears on all pages that show cars in a grid layout. Whenever user clicks it, it leads the user to the reservation page. [1 mark]

2. Search Box [6 marks]

- User can type keywords about car type, brand, model, and description to look up cars. [1 mark]
- The search box displays keyword suggestions in real-time, based on what the user is typing into the search box. [2 marks]
- When user selects a suggested keyword, a new search will be triggered, showing search results that match the selected keyword. [2 marks]
- Search results also show in a grid layout. Each car showing selected information about cars, e.g., car model, image, price per day, availability and a "rent" button (or other clickable item). [1 mark]

3. Search Filters [4 marks]

- Search filters appear on all pages that show a grid layout of cars, including the homepage. [1 mark]
- User can filter the cars by type (e.g., Sedan, Wagon) and brand (e.g., Ford, Mazda). [1 mark]
- User can use filters and the search box in combination to look up cars – user can
 - Do a keyword-based search and then refine the search results using filters, [1 mark] or
 - Set up filters first and then run a search of cars of the selected type and brand. [1 mark]

4. A Grid View of Cars [2 marks]

- For every page that shows cars in a grid layout,
 - The "rent" button is unclickable if a car is unavailable for renting. [1 mark]
 - For each car available for renting, user can click the "rent" button next to the car to be redirected to the reservation page. [1 mark]

5. Reservation Page [10 marks]

- If user has ever clicked any car before, user will see all information (except VIN) about the car that he/she last clicked upon entering the reservation page, and user cannot edit this information – this is regardless of how the user gets to this page. [1 mark]
 - If the car is still available since the last click of user, the reservation page also shows a form which allows user to provide more information about the rental order, including user's name, phone number, email address, driver's license number, as well as the start date (i.e., first day of rental) and rental period (i.e., number of days for the rental). [1 mark] If user has used the form previously without placing an order, user's previous inputs will be used to prefill the form. [1 mark]
 - Otherwise, the page hides this form, and user is reminded of the car being unavailable. User is suggested to choose another car instead. [1 mark]

- For the reservation form, when it shows on the page,
 - All user's inputs in the form should be validated to ensure they are non-empty and in appropriate formats. [1 mark]
 - User gets live feedback when providing inputs to the form – user gets feedback on their inputs even before submitting the form. [1 mark]
 - The “**submit**” button is unclickable by default in the form. But once the reservation form has been completed and passed the validation, the page shows a total price for the rental, the button becomes clickable, and user can click this button to place a rental order [1 mark]
 - Instead of the “**submit**” button, user can click the “**cancel**” button at any time to clear the form and return to the homepage [1 mark], or just leave the page (e.g., by clicking the website logo). In the latter case, user's inputs (if any) in the reservation form will be saved for future reuse [1 mark].
- If the user has never clicked a car before, the reservation page shows nothing but a reminder, suggesting user to choose a car. [1 mark]

6. Order Confirmation [3 mark]

- If the website did not insert a new record for the order successfully – usually because the car to be booked is no longer be available by the time the website receives the user's order – the website notifies user of the failure. [1 mark]
- Otherwise, the rental order is recorded [0.5 mark], availability of the rented car is updated into “false” [0.5 mark], the reservation form is cleared, [0.5 mark] and user is notified of the success [0.5 mark].

7. Overall Presentation [3 marks]

- All texts are contemporary, easy to read, and of appropriate font sizes. [1 mark]
- Everything on the pages has the appropriate font colors and background colors. [1 mark]
- Images are shown in a neat and nice way. [1 mark]

8. Technique and Deployment Requirements [4 marks]

- Website uses AJAX, jQuery or comparable techniques with AJAX features. [2 marks]
- Website is hosted on Elastic Beanstalk or other cloud platforms, providing a public URL. [2 marks]

Total marks = 35