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**Research**

We have a research collaboration board on Pinterest were we have displayed a range of different design elements and collected our ideas. We have researched vintage colour schemes and got inspired from looking a old styled cars. We have explored a range of different websites, for example

**Design Justification**

**Form**

When designing the form we added an asterisk to the required fields in the form as we found from our research this was the most recognised way to highlight required fields. Although not everyone would understand this if they were beginners or older users so ensure all users know what is required we added a simple instruction “All (\*)” must be filled out” this ensures everyone understands the form before they begin to complete it.

**Colour**

The colour reflects a vintage theme of light orange and blue. The reason we have chosen the blue is because it reflects a sense of trust in the website, giving the user the confidence of a trust worthy real website. We choose orange as this is a very social colour and inviting to the users, this adds to the effect of creating a welcoming website in ensuring the users have trust in our site. Choosing the correct colour scheme helps in making the site more aesthetically pleasing to the user and helps to achieve a more professional feel.

**Technologies Justification**

**Validation**

Required elements in the form contains a validation so that if the customer sends the form leaving all fields blank it will show an error message. The required fields are highlighted with asterisk to indicate which fields needs completed. The email is validated so that if the user sent their email without an @ or .com it will display an error. The reason we added this validation to email is because it’s important the company needs to contact the user via email to send a verification email or a receipt invoice for the payment, if they entered a wrong email address this cause could issues for proof of payments etc.

The Forename and Surname can only contain letters and cannot be longer than 29 character’s, therefore it will ensure the user inputs a correct format for this. The validation on post code ensures that the user inputs the correct format for a postcode, for example “BT77 7MM”, where there needs to be letters you can place numbers in and where there needs to be numbers you can’t place letters. This is helpful so that the company knows where the car is being hired.

The age is validated so that he user can’t input letters and they need to be more than 16 years old to hire a car, this is helpful for the company so that people under age can not send this form.

The validation is occurs when the user inputs the wrong information and clicks away from this so that the form is validated whilst the user is filling out their information, rather than at the end. This creates a better user experience as it allows errors to be fixed whilst completing the form, resulting in the user completing the form quicker. This is easier for the user to complete and enables them to fix the problems quicker. Validation also occurs on submit, again this is to ensure all information is entered correctly. The validation appears in red, this is to highlight an error, we choose red as from looking at our research most forms present their errors in red, so this is easier for the user to recognise this and fix their issues.

**Code**

**Validation**

In order to create the validation we have added an if, and if else statements against fields and created separate functions for each field. We have add length checkers.

Onchange function on input element -

<https://www.smashingmagazine.com/2009/07/web-form-validation-best-practices-and-tutorials/>

<https://www.colorpsychology.org/orange/> - Design justification/ colour

<https://www.colorpsychology.org/blue> - Design justification/blue

<https://uk.pinterest.com/KatDoyle1/garage-rental/> - Pinterest

**Justification of using PHP & MYSQL**

Email- to store their emails

Password – creating a more secure login, with encryption and md5 and salt