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| **PROJECT ON**  **Carrio Motors Website** |

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| **Developed by**  **Members:**   |  |  |  | | --- | --- | --- | | **No.** | **Student Name** | **Student ID** | | 1 | HUY TRAN THANH HOANG | Student1346977 | | 2 | LOC TRAN TAN | Student1352787 | | 3 | TU LE THANH | Student1341374 | | 4 | TUAN HUYNH QUANG | Student1346991 |  * **Class No.: C2110L** * **Start Date: 29-Aug-2022** * **End Date: 28-Sep-2022** * **Name of the Coordinator: TRI PHAN HUU** * **Date of Submission: 28-Sep-2022** |

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| **SYSTEM ANALYSIS** |

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| **System Summary:**   * **Subject:** Develop a website for the car business * **The Functions of website:**   1) The Top of the Page with a logo and scrolling images of cars.  2) Brand categorization of Cars.  3) Segment categorization of Cars.  4) A menu includes all the functions implemented in the site.  5) Clicking on a car picture will open car details and specifications. The details include features, price, year of manufacture, etc.  6) Search bar is added. User can search by name or search by brand in website.  7) The functions adding, deleting, editing a product are added in the admin page.  8) Site map, Gallery, About us, Contact us link are added.  9) When the users login successfully, they will be redirected to appropriate site depend on their permissions.  10) About Us and Contact Us: This menu option displays Email id, address,  and contact number of the organization.  11) Users can create an account for themself  12) The website has login, logout function.  13) Data validation in login and register form. |

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| **CLASS DIAGRAM** |

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| **DATABASE DESIGN** |

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| **Database Name:**  **Number of tables:**  **Tables Names:**   1. Account 2. Brand 3. Carline 4. Comment 5. Oto 6. Photo 7. Role 8. Role\_account 9. Segment 10. Showroom 11. Warrantypolicy   **Schematic Diagram Of Database:**  Schematic diagram of the database depicting the primary and foreign key  relationships. |

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| **TABLE DESIGN** |

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| **Database Name: Carproject**  **Name Table 1: Account**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | ID | Int | 11 | User id | | Username | Varchar | 250 | Username | | Password | Varchar | 250 | Password | | Email | Varchar | 250 | Email of user | | Role | Int | 11 | Role of user |   **Name Table 2: Brand**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | Id | Int | 11 | Brand id | | Brandname | Varchar | 250 | Name of brand | | Companyname | Varchar | 250 | Name of company |   **Name Table 3: Carline**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | Id | Int | 11 | Carline id | | Carlinename | Varchar | 250 | Name of carline |   **Name Table 4: Comment**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | Id | Int | 11 | Comment id | | Content | Varchar | 250 | The content of comment | | Accounid | Int | 11 | Id of user who commented | | Update\_ad | Date |  |  | | Created\_at | Date |  | Date when user write a comment | | Otoid | Int | 11 | Id of the car which was commented |   **Name Table 5: Oto**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | Id | Int | 11 | Car id | | Name | Varchar | 250 | Name of car | | Quantity | Int | 11 | Quantity of car | | Price | Double |  | Price of car | | Yearofmanufacture | Int | 11 | Manufacturing date | | Orgin | Varchar | 250 | The orgin of car | | Engine | Varchar | 250 | Type of car engines | | Wattage | Varchar | 250 | Wattage of a car | | Fuelcapacity | Varchar | 250 | The amount of fuel that a vehicles fuel tank can hold. | | Segmentid | Int | 11 | Identify segment of a car | | Carlineid | Int | 11 | Identify carline of a car | | Showroomid | Int | 11 | Identify a showroom in which the car was placed | | Brandid | Int | 11 | Identify brand of a car | | Photo | Varchar | 250 | It can be understood as a name of avatar picture of car |   **Name Table 6: Role**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | Id | Int | 11 | Role id | | Name | Varchar | 250 | Name of group rights |   **Name Table 7: Role\_account**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | Id | Int | 11 | Indentiy colunm | | Roleid | Int | 11 | Id of role | | Accountid | Int | 11 | Id of an account |   **Name Table 8: Segment**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | Id | Int | 11 | Id of segment | | Segmentname | Varchar | 250 | Name of segment |   **Name Table 9: Showroom**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | Id | Int | 11 | Id of showroom id | | Showroomname | Varchar | 250 | Name of showroom | | Address | Varchar | 250 | The address of showroom |   **Name Table 10: Warrantypolicy**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | Id | Int | 11 | Id of warranty | | Content | Varchar | 250 | Content of policy | | Brandid | Int | 11 | Id of brand |   **Name Table 11: Photo**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | Id | Int | 11 | Id of warranty | | Name | Varchar | 250 | Photo’s file name | | Otoid | Int | 11 | Id of car | |

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| **VALIDATIONS PERFORMED** |

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| **Database Name: carproject**  **Name Table 1: Account**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | Id must be unique | Primary key constraint | | Email,password, role | Not null when create an account |   **Name Table 2: Brand**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | Id must be unique | Primary key constraint |   **Name Table 3: Carline**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | Id must be unique | Primary key constraint |   **Name Table 4: Comment**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | Id | Primary key constraint | | Content | Not null | | Accounid | Foreign key with table Account | | Otoid | Foreign key with table Oto |   **Name Table 5: Oto**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | Id | Primary key constraint | | Brandid | Foreign key with table Brand | | Carlineid | Foreign key with table Carline | | Showroomid | Foreign key with table Showroom | | Segmentid | Foreign key with table Segment |   **Name Table 6: Role**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | Id must be unique | Primary key constraint |   **Name Table 7: Role\_Account**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | Id | Primary key constraint | | Roleid | Foreign key with table role | | Accountid | Foreign key with table Account |   **Name Table 8: Segment**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | Id must be unique | Primary key constraint |   **Name Table 9: Showroom**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | Id must be unique | Primary key constraint |   **Name Table 10: Warrantypolicy**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | Id | Primary key constraint | | Brandid | Foreign key with table brand |   **Name Table 11: Photo**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | Id | Primary key constraint | | Otoid | Foreign key with table oto | |

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| **DATA FLOW DIAGRAM** |

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| **Data Flow Diagram representing the control flow of Project Case Study.** |

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| **(WEB/WINDOWS) FORMS OUTLINE** |

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| **Login form** | **Description** |
|  | This is login form for user with black background and white text. Button “sign in” with a color that stands out against a dark background.  Users must login to have more experiences  The website managers must login to have permission for adding, editing or deleting data.  We also check validation when email or password is empty.  When user input an email is not exists on database they also get a message “Email is not exists”.  When user input wrong email or password they will get a message “Email or password is incorrect” |

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| **Register form** | **Description** |
|  | Register form for user, with dark background and white text, so user can focus on the form.  This form is for users who want to create an account on our website. Users must fulfill informations to register. Missing any of fields is not allowed  Emails use to register must have @ keyword. |

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| **The header** | **Description** |
|  | The top of website with navigation bar |

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| **The search bar** | **Description** |
|  | This search bar is for users, who know and want to search for a car, after they input a keywork and then click the “Search” button our website will show them the car they are looking for. |

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| **Home page with details button** | **Description** |
|  | In the body of home page, users can click into any photos of car or click into “Details” button, website will show the details of car which was clicked. |

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| **Comment form** | **Description** |
|  | Our website also has a comment section for users to interact with sellers , so that the sellers can get feedback from users |

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| **Car listing page** | **Description** |
|  | In car listing page, our website also has a function that is when the user clicks on the price button . Our website will show the price and information of the car when you buy it  (Our website are dumped entirely from the database) |

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| **Segment classification** | **Description** |
|  | In car listing page, website also does search for cars by segment. After user click “segment A ”, the website will show cars in the A-segment and other segments too |

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| **Admin page** | **Description** |
|  | Admin page allows the page managers to add, edit or delete a car from list |

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| **Edit a car** | **Description** |
|  | Page admin can edits car detail by using this form. |

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| **Add a car** | **Description** |
|  | Admin can add a car into list by using this form |

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| **CONFIGURATION** |

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| **Software & Technology Used:**   * **Software:** * Visual studio code * Xampp control panel * phpMyAdmin * **Technology** * HTML, CSS, Javascript * Jquery, Boostrap, Ajax * Laravel * Mysql |
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| **PROJECT TIMELINES** |

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| **S.No.** | **Task to be performed** | **Time** |
| **1** | Analyze the case study | 1 day |
| **2** | Design Database | 1 day |
| **3** | Design the UI | 1 day |
| **4** | Implement business functionalities of website | 2 days |
| **5** | Test and debug the website | 2 days |
| **6** | Document the project | 1 day |
|  | **Total** | **8 days** |

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| **INDIVIDUAL PROJECT SCHEDULE** |

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| **S.No.** | **Activity Description** | **Responsibility** |
| **1.** | - Project requires research - Construction layout - Backend connects and dumps data on the interface | **Tu Le Thanh** |
| **2** | - Project requires research - Construction layout - Backend connects and dumps data on the interface | **Tuan Huynh Quang** |
| **3** | - Project requires research - Construction layout - Backend connects and dumps data on the interface | **Huy Tran Thanh Hoang** |
| **4** | - Project requires research - Construction layout - Backend connects and dumps data on the interface | **Loc Tran Tan** |