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| **PROJECT ON**  **(Persol)** |

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| **Developed by**  **Members:**   |  |  |  | | --- | --- | --- | | **No.** | **Student Name** | **Student ID** | | **1** | **Dai Anh Dung** | Student1359865 |  * **Class No.: C2204L** * **Start Date: 2023-02-07** * **End Date: 2023-02-07** * **Name of the Coordinator: Dang Nguyen The Hung** * **Date of Submission: 2023-02-07** |

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| **SYSTEM ANALYSIS** |

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| **System Summary:**  **My project focused on creating an ecommerce website for glasses , including lense, sunglasses, frames. The main goal is to provide customer with a friendly, easy way to searching product information. Template designed in a visually appealing manner with attractive fonts, colors, and animations**  **-Website designed as a Single-Page-Application and responsive. Client side rendering to transform data between client and server.**   1. **Product catalog: A comprehensive listing of different types of glasses, including lenses, sunglasses, glasses** 2. **Search and filtering: A search function to help customers find specific products and filtering options to narrow down search results by brand, category** 3. **Comparing product: A feature that allows customers to compare different products side-by-side, including their specifications, prices** 4. **Detail product: a brief summary of features of individual products display for each item. Can be downloaded or viewed by user.** 5. **Contact via mail: Contact Us page showing detail of Company, auto reply by mail every message user sent.** 6. **Display a continuous, scrolling ticker at the bottom of the page with current datetime, location company** 7. **Display a visitor count at the top right corner of the page.** 8. **User account: Authentication and Authorization system to identity user access website . Customer role able to use later development feature.** 9. **ADMIN CRUD: admin crud system can manage user, product, brand, category, mail.** |

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| **CLASS DIAGRAM** |

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| **DATABASE DESIGN** |

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| **Database Name: persol**  **Number of tables: 14**  **Tables Names:**   |  |  |  |  | | --- | --- | --- | --- | | 1.user | 2.product | 3.role | 4.image\_product | | 5.category | 6.brand | 7.category\_brand | 8.visitor | | 9.mail | 10.order | 11.status | 12.product\_order | | 13.coupon | 14.bookmark\_product |  |  |   **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: persol**  **User:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  id  email  password  fullname  phone  address  date  role\_id | Data type  int  varchar  varchar  varchar  varchar  varchar  datetime  int | Width  255  255  100  100  100 | Description  Id user  Email of user  Password of user  Full name of user  Phone of user  Address of user  Date time create user  Id role reference |   **Role:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  int  name  description | Data type  varchar  varchar | Width  50  100 | Description  Id role  Name keyword of role  Name of role |   **Product:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  id  name  main\_image  amount\_of\_sold  price  detail  category\_id  brand\_id | Data type  int  varchar  varchar  int  int  text  int  int | Width  255  100 | Description  Id of product  Name of product  Main image of product  Amount sold of product  Pricec of product  Detail of product  Category ID of product ref  Brand ID of product ref |   **image\_product:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  id  name  product\_id | Data type  int  varchar  int | Width  255 | Description  Id of sub image product  Name sub image  Id product reference |   **brand:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  id  name  image | Data type  int  varchar  varchar | Width  50  50 | Description  Id of brand  Name of brand  Image of brand |   **category:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  id  name | Data type  int  varchar | Width  50 | Description  Id of category  Name of cateogory |   **category\_brand:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  category\_id  brand\_id | Data type  int  int | Width | Description  Category id reference  Brand id reference |   **mail:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  id  fullname  email  phone  message  createdate | Data type  int  varchar  varchar  varchar  text  datetime | Width  50  50  20 | Description  Id of mail  Full name of user send  Email of user send  Phone of user send  Message of mail  Create date of mail |   **visitor:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  id  ip\_address  count  start\_time  end\_time | Data type  int  varchar  int  datetime  datetime | Width  20 | Description  Id of visitor  Ip of visitor  Count time enter  Start time session visit  End time session visit |   **coupon:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  id  name  rate | Data type  int  varchar  float | Width  50 | Description  Id of coupon  Name of coupon  Rate of coupon |   **Bookmark\_product:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  user\_id  product\_id | Data type  int  int | Width | Description  User id reference  Product id reference |   **status:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  Id  Name | Data type  Int  Varchar | Width  50 | Description  Id of status  Name of status | |
| **Product\_order:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  Order\_id  Product\_id  amount  price | Data type  Int  Int  Int  Int | Width | Description  Order id reference  Product id reference  Amount of product  Price of total product |   **order:**   |  |  |  |  | | --- | --- | --- | --- | | Field Name  Id  Fee\_ship  Coupon  Temp\_total  Total  User\_id  Delivery\_address  Status\_id | Data type  int  int  float  int  float  int  varchar  int | Width  255 | Description  Id of order  Fee ship of order  Coupon of order  Total before promotion  Total after all  User id reference  Order address ship  Status of order | |

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| **VALIDATIONS PERFORMED** |

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| **Database Name:**  **user:**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | id | Primary key constraint | | email | unique |   **role:**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | id | Primary key contraint | | name | Not null clause in create statement |   **category:**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | id | Primary key contraint | | name | Not null clause in create statement |   **product:**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | id | Primary key contraint |   **Image\_product:**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | id | Primary key contraint |   **coupon:**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | id | Primary key contraint | | name | Unique , Not null clause | | rate | Not null clause in create statement |   **status:**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | id | Primary key contraint |   **order:**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | id | Primary key contraint |   **mail:**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | id | Primary key contraint | |

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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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| **Forms Name** | **Description** |

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| **CONFIGURATION** |

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| **Software & Technology Used:** |

**+Software:**

\_Visual Studio Professional 2019

\_Php Storm 2022.2.3

**+Technology:**

\_Restful API

\_Angular 15

\_Laravel 9

\_Bootstrap 5

\_MySQL

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| **PROJECT TIMELINES** |

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| **S.No.** | **Task to be performed** | **Time** |
| **1.** | **Design database** | **2 hour** |
| **2.** | **User Login** | **2 hour** |
| **3.** | **Register Account User** | **2 hour** |
| **4.** | **Authen and Authorize logic** | **2 hour** |
| **5.** | **Filter product** | **8 hour** |
| **6.** | **Api Crud Amin User** | **2 hour** |
| **7.** | **Api Crud Amin Product** | **2 hour** |
| **8.** | **Api Crud Amin Category, Brand** | **2 hour** |
| **9.** | **Admin layout** | **2 hour** |
| **10.** | **Default layout** | **20 hour** |
| **11.** | **Compare product** | **4 hour** |
| **12.** | **Mail Contact Feature** | **2 hour** |
| **13.** | **Download Detail Word** | **2 hour** |
| **14.** | **Mail Contact Feature** | **2 hour** |
| **15.** | **Download Detail Word** | **2 hour** |
| **16.** | **Visitor count feature** | **2 hour** |
| **17.** | **Geolocation api** | **2 hour** |
| **18.** | **Document the project** | **5 hour** |
| **19.** | **Review api** | **5 hour** |
| **20.** | **Validate all form** | **5 hour** |
| **21.** | **Test and debug** | **5 hour** |

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| **INDIVIDUAL PROJECT SCHEDULE** |

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| **S.No.** | **Activity Description** | **Responsibility** |
| **1.** | **Fullstack** | **Dai Anh Dung** |