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| **PROJECT ON**  **Online Mall Management** |

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| **Developed by**  **Members:**   |  |  |  | | --- | --- | --- | | **No.** | **Student Name** | **Student ID** | | 1 | LOC TRAN TAN | Student1352787 | | 2 | TU LE THANH | Student1341374 | | 3 | HAO NGUYEN THIEN | Student1352894 | | 4 | AI PHAN HOANG KHA | Student1322677 |  * **Class No.: C2110L** * **Start Date: 06-Aug-2023** * **End Date: 05-Sep-2023** * **Name of the Coordinator: PHAN HUU TRI** * **Date of Submission: 05-Sep-2023** |
| **SYSTEM ANALYSIS** |

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| **System Summary:**  Project Name:  Online Mall Management  Software use:  Angular, ASP.Net, HTML  Website:  Separate module for using the admin features and the client features.  User-Homepage:   * Display the images of the mall with relevant information * Navigator link to the sites to explore the features of the mall * Feedback function * Contact Us area * Movie theater section with selecting function for show time and seat booking   Admin-Page:   * Properties of editing the data of the mall CRUD functions of Stores, Supermarket, Gallery, News, Feedback, as well as the Movie’s section |
| **CLASS DIAGRAM** |

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| **DATABASE DESIGN** |

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| **Database Name:**  **Number of tables:**  **Tables Names:**   1. Table Account 2. Table Category 3. Table Feedback 4. Table Movie 5. Table NewsGallery 6. Table Product 7. Table Room 8. Table Sale 9. Table Seat 10. Table SeatStatus 11. Table Shop 12. Table Show 13. Table Ticket 14. Table TimeSlot   **Schematic Diagram Of Database:**  Schematic diagram of the database depicting the primary and foreign key  relationships. |
| **TABLE DESIGN** |

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| **Database Name:**  **Table Account**    **Table Category**    **Table Feedback**    **Table Movie**    **Table NewsGallery**    **Table Product**    **Table Room**    **Table Sale**    **Table Seat**    **Table SeatStatus**    **Table Shop**    **Table Show**    **Table Ticket**    **Table TimeSlot** |
| **VALIDATIONS PERFORMED** |

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| **Database Name:**  All Id property from every table is unique, primary and auto increment  Every property from any table is required and not null  Table Account   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | username, password, status | required for log in validation |   Table Feedback   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | name, title, message | required to send a feedback | | value | value for rating star |   Table Movie   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | status | use to check if movie is still available or not deleted while being used |   Table Product   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | idsale, idcategory | foreign\_key |   Table Room   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | status | use to check if room is still available nor deleted |   Table Seat   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | status | to check if seat still available or broke | | RoomId | foreign\_key |   Table SeatStatus   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | status | for client’s booking and payment | | SeatId, ShowId | foreign\_key |   Table Shop   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | categoryId | foreign\_key |   Table Show   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | status | to check if show still available or cancelled | | RoomId, MovieId, TimeSlotId | foreign\_key |   Table Ticket   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | status | to check if ticket is confirmed | | SeatStatusId | foreign\_key |   Table TimeSlot   |  |  | | --- | --- | | Validation Required | Method Used For Validation | | status | to check if time slot is available or deleted | |
| **DATA FLOW DIAGRAM** |

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| **Data Flow Diagram representing the control flow of Project Case Study.** |
| **(WEB/WINDOWS) FORMS OUTLINE** |

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| **Forms Name** | **Description** |
|  | Login form with forbidden access when not signed in, or input wrong username / password |
|  | Admin Control Panel, CRUD function for store, supermarket, gallery, feedback |
|  | Admin Control Panel, CRUD function for movie theater section: movies, shows, room, ticket and timeslot |
|  | DataTable for a respectively subjects |
|  | Navigator to relevant information of the website |
|  | Cinema Section for booking movie ticket |

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| **CONFIGURATION** |

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| **Software & Technology Used:**  **Software:**  Visual Studio Community 2022  Visual Studio Code  Microsoft SQL Server Management Studio  **Technology:**  Net Core  Angular |

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| **PROJECT TIMELINES** |

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| **S.No.** | **Task to be performed** | **Time** |
| 1 | Analyze the project requirements | 1 day |
| 2 | Create Database | 1 day |
| 3 | Create the design for the home page | 1 day |
| 4 | Create the design for the admin page | 1 day |
| 5 | Design UI to meet user-friendly standard | 2 days |
| 6 | Create API for user-site | 3 days |
| 7 | Create API for admin-site | 3 days |
| 8 | Implement required functionalities of system to the website | 7 days |
| 9 | Test and debug the application | 3 days |
| 10 | Document the project | 1 days |
|  | Total | 23 days |

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| **INDIVIDUAL PROJECT SCHEDULE** |

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| **S.No.** | **Activity Description** | **Responsibility** |
| 1 | User page, structure and layout, Frontend responsibility, admin API | LOC TRAN TAN |
| 2 | User page, structure and layout, Frontend responsibility, admin API | TU LE THANH |
| 3 | Admin login page, admin dashboard, admin management API | HAO NGUYEN THIEN |
| 4 | Database, Movie Theatre Backend system, movie, ticket and seat booking, User page API | AI PHAN HOANG KHA |