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| **PROJECT ON**  **UmiSoft** |

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| **Developed by**  **Members: Tran Xuan Duong-1336087, Hung Tien**   |  |  |  | | --- | --- | --- | | **No.** | **Student Name** | **Student ID** | | 1 | Trần Xuân Dương | 1336087 | | 2 | Hùng Tiến |  | | 3 |  |  | | 4 |  |  |  * **Class No.: C2107L** * **Start Date:8/11/2022** * **End Date:6/12/2022** * **Name of the Coordinator: Bui Duy Khiem** * **Date of Submission:8/12/2022** |

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| **SYSTEM ANALYSIS** |

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| **System Summary:** **Computer maintenance center management software**  **-Software managers create accounts for each employee in the company**  **-Staff login with default password and change password after first login (required)**  **-The staff receiving the machine will make a receipt and print out the receipt of the return date according to the regulations in the company system.** **In the receipt, specify who is receiving, what is the error content, if any, machine series, basic description of the machine when receiving, the status of the ticket is in processing.**  **-Technical staff will select from the list of receiving 1 receipt and processing, after processing will record the result information including repair costs, the default is 0 if during the warranty period, the technical staff will The technician can adjust the return date and call the customer through the phone number recorded in the receipt to confirm the status of the machine, and the time to return the machine, if the customer agrees, then save the information.**  **-When the repair is completed, the status of the receipt will be changed and completed. The reception staff will see the complete list of machines, make a phone call to notify the customer, when the customer picks up the phone, the reception staff will change the status of the receipt to refund.** |
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| **CLASS DIAGRAM** |

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| **DATABASE DESIGN** |

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| **Database Name:UMISOFT**  **Number of tables:5**  **Tables Names:**   1. NHANVIEN 2. LOAINHANVIEN 3. DICHVU 4. DULIEUMAYBAOHANH 5. PHIEUNHAN   **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: UMISOFT**  **Name Table 1: DICHVU**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | Id | Nchar | 10 | code of service | | noiDung | Nvarchar | 50 | Description of service | | chiPhi | Float |  | Price of service | | thoiGianDuTinhHoanThanh | Int |  | Time until complete |   **Name Table 2:DULIEUMAYBAOHANH**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | MaMBH | Int |  | Code of device need maintain | | tenMay | Nvarchar | 250 | Name of device need maintain | | SDT | Varchar | 250 | Phone number of customer | | thoiGianBatDauBH | Date |  | Time when start maintain | | thoiGianKetThucBH | Date |  | Time when finish maintain | | idNV | Int |  | Employeer’s code |   **Name Table 3:LOAINHANVIEN**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | idLoaiNV | Int |  | Employee's job code | | name | Nvarchar | 50 | Employee’s name |   **Name Table 4:NHANVIEN**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | idNV | Int |  | Employee's code | | account | Nvarchar | 50 | Employeer’s User name for login app | | password | Varchar | 50 | Employeer’s password for login app | | name | Nvarchar | 50 | Employeer’s name | | idLoaiNV | Int |  | Employeer’s code | | tinhTrang | Bit |  |  |   **Name Table 5:PHIEUNHAN**   |  |  |  |  | | --- | --- | --- | --- | | Field Name | Data type | Width | Description | | maPN | Int |  | Code of receipt | | maNVTN | Int |  | Code of reception staff | | maNVKT | Int |  | Code of maintain s | | nguoiNhan | Nvarchar | 50 | Name of customer | | noiDung | Nvarchar | 250 | error details when receiving | | moTa | Nvarchar | 250 | description of the laptop upon receipt | | Series | Varchar | 250 | Seri of laptop | | trangThai | Nvarchar | 50 | Status of laptop | | chiPhi | Int |  | Price | | ngayTraMay | Date |  | Estimated time of completion | | thoiGianTraMay | Date |  | Estimated time of completion | | SDT | Varchar | 50 | Phone numeber of customer | | ngayTaoPhieu | date |  | receipt creation time | |

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| **VALIDATIONS PERFORMED** |

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| **Database Name:**  **Name Table 1:**   |  |  | | --- | --- | | Validation Required | Method Used For Validation |   **Name Table 2:**   |  |  | | --- | --- | | Validation Required | Method Used For Validation | |

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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** |
|  | **Sign-in form clean** |
|  | **Admin form, you can login here if your idLoaiNV is 1** |
|  | **Reset password form, you need do it when the first login with your account** |
|  | **Form for staff receiving the laptop, you can login here if your idLoaiNV is 2** |

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| **CONFIGURATION** |

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| **Software & Technology Used:**  **-software**  **+netbeans IDE 15**  **+sql server 2019**  **-technology**  **+java swing**  **+jdbc** |

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| **PROJECT TIMELINES** |

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| **S.No.** | **Task to be performed** | **Time** |
| **1** | **Analyze the case study** | **2 hour** |
| **2** | **Create the design for the app** | **5 days** |
| **3** | **Design the UI of the application to make it user friendly** | **30 minut** |
| **4** | **Implement business functionalities of systems in the application** | **8 days** |
| **5** | **Test and debug the applicantion, add new function and remake UI** | **13 days** |
| **6** | **Document the project** | **1 days** |
|  | **Total** | **28 days** |

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| **INDIVIDUAL PROJECT SCHEDULE** |

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| **S.No.** | **Activity Description** | **Responsibility** |
| **1.** | **Create database for login form** | **Tran Xuan Duong** |
| **2.** | **Create database for reset password form** | **Tran Xuan Duong** |
| **3.** | **Create database for list service of company** | **Tran Xuan Duong** |
| **4.** | **Create database for form technical staff** | **Tran Xuan Duong/Hung Tien** |
| **5.** | **Create database for form receptionist** | **Hung Tien** |
| **6.** | **Form login** | **Tran Xuan Duong** |
| **7.** | **Form reset password** | **Tran Xuan Duong** |
| **8.** | **Form admin** | **Tran Xuan Duong** |
| **9.** | **Form receptionist** | **Tran Xuan Duong** |
| **10.** | **Form technical staff** | **Hung Tien** |
| **11.** | **Beautiful interface** | **Hung Tien** |
| **12.** | **Document** | **Tran Xuan Duong** |
| **13.** | **Powerpoint** | **Tran Xuan Duong** |
| **14.** | **Test and debug** | **Tran Xuan Duong** |