COM2103

Database Design and Management

Department of Computing

2022/23 Semester 2

**Project Report**

1. Group information

|  |  |
| --- | --- |
| Student ID | Name |
| S216737 | Chan Hok Chi |
| S216740 | Cheng Sum Ho |
| S216741 | Cheung Chun Kiu |
| S216764 | Wong Lok Yee |

1. Installation of the RMS system

Please tell us briefly how to install your system on our Windows 10 virtual machine. You can assume that we already have XAMPP and Java 8 installed on it.

Note: The JDBC library should be packed in your source codes.

|  |
| --- |
| 1.First download the zip file and unzip it.  2.Import the recruitmentmanagementsystem.sql into PhpMyAdmin.  3.Create database user  4.Open RecruitmentManagementSystem.java in Eclipse  5.Build external JARs: mariadb-java-client-1.8.0.jar  6.Change 3 variables: connect\_path, connect\_user, and connect\_password |

1. Design of the database (core functions only)

Please write down the database schema. Underline the primary key of each table.

|  |
| --- |
| Applicant (id, name, email, phone, experience, education)  Application (id, date\_of\_application, applicant\_id1, job\_id)  Employer (id, name, contact, email)  Job (id, name, description, date\_published, Salary, Academic requirements, company)  System (SYSTEM\_DATE)  user\_detail (USER\_ID, USERNAME, PASSWORD, ADMIN) |

1. Choice of selected feature

Please tick ✓ ONE of them.

|  |  |
| --- | --- |
|  | 1. Automated matching of candidates to open requisitions |
|  | 1. Automated interview scheduling for employers and job applicants |
| ✓ | 1. Automated reminders for qualified candidates /applicants when new job description is entered into the system. |

1. Design of the database (core functions + selected feature)

Please write down the database schema. Underline the primary key of each table.

|  |
| --- |
| Applicant (id, name, email, phone, experience, education)  application (id, date\_of\_application, applicant\_id1, job\_id)  employer (id, name, contact, email)  job (id, name, description, date\_published, Salary, Academic requirements, company)  system (SYSTEM\_DATE, DoPosting)  user\_detail (USER\_ID, USERNAME, PASSWORD, ADMIN) |

1. Design of the input interface

In reality, the staff may use many different methods to enter data. For example, touch screens, smart cards, barcodes, etc. In this project, you DO NOT need to implement them. However, please tell us about your design and how the different input actions are represented in your system. For example, you could say that scanning a barcode is represented by entering the item code in your LMS system.

|  |
| --- |
| Users should login first to identify the identity .Then there is a display command menu,which uses a switch case to enter the number for the command.Only employers can use some of the functions.For example,posting a job description and adjusting the date. |

1. Other information

Please let us know if there is anything that might be relevant to your project markings. Otherwise, please leave it blank here.

|  |
| --- |
|  |

– End –

**Scoresheet**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Items | Comments | Scores | |
| Implementation (core) | 1. Display the information of all registered job applicants / candidates. |  |  | 25% |
| 2. Display the information of all registered employers. |  |
| 3. Display all job description in the system within a specific date range. |  |
| 4. Posting a job description in the system (by employers). |  |
| 5. Count the number of job descriptions which match a specific search criterion. For example, count the number of job description which requires the knowledge of ‘SQL’. |  |
| 6. Display the job application history of an applicant. |  |
| 7. The system date can be flexibly adjusted. |  |
| DB Design (core) | |  |  | 15% |
| Implementation (elective) | |  |  | 20% |
| DB Design (elective) | |  |  | 10% |
| User-friendliness | |  |  | 15% |
| Clarity | |  |  | 15% |