**Chengdu University of Technology Oxford Brookes College**

**Project Module (CHC 6096)**

**Weekly Report Sheet**

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| STUDENT NAME: | Mike |
| STUDENT NUMBER: | 201918020123 |
| SUPERVISOR NAME: | Monty |
| DATE: | 2022.11.18 |
| Briefly list all the main tasks you accomplished in the week.  According to the plan of last week's weekly report, this period has basically completed all the planned work and achieved the expected goals. This includes the preliminary design of the database according to the already designed system structure, which is specifically manifested in the design of the database E-R diagram and related database tables. Clearly defined fields in each table.    Booktable（book\_info）   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | name | type | length | decimal | NULL | Primary key | | book\_id | int | 20 | 0 | no | yes | | Name | Varchar | 20 | 0 | no |  | | Author | Varchar | 15 | 0 | no |  | | Publish | Varchar | 20 | 0 | no |  | | ISBN | Varchar | 15 | 0 | no |  | | Introduction | text | 11 | 0 | no |  | | Language | Varchar | 4 | 0 | no |  | | Price | Decimal | 10 | 2 | no |  | | Pub\_date | Date | 10 | 0 | no |  | | Class\_id | Int | 11 | 0 | no |  | | number | int | 11 | 0 | no |  |   admintable（admin）   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | name | type | length | decimal | NULL | Primary key | | Admin\_id | int | 20 | 0 | no | yes | | password | Varchar | 15 | 0 | no |  | | username | varchar | 15 | 0 | yes |  |   Book class table（class\_info）   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | name | type | length | decimal | NULL | Primary key | | Class\_id | int | 11 | 0 | no | yes | | Class\_name | Varchar | 15 | 0 | no |  |   Lend information table（lend\_list）   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | name | type | length | decimal | NULL | Primary key | | Ser\_num | Int | 20 | 0 | no |  | | Book\_id | int | 20 | 0 | no |  | | Reader\_id | int | 20 | 0 | no |  | | Lend\_date | date | 0 | 0 | yes |  | | Back\_date | Date | 0 | 0 | yes |  |   Lendcard information table（reader\_card）   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | name | type | length | decimal | NULL | Primary key | | Reader\_id | Bigint | 20 | 0 | no | yes | | password | varchar | 15 | 0 | no |  | | username | Varchar | 15 | 0 | yes |  |   Reader table   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | name | type | length | decimal | NULL | Primary key | | Reader\_id | Bigint | 20 | 0 | no | yes | | password | varchar | 15 | 0 | no |  | | username | Varchar | 15 | 0 | yes |  | | |
| Briefly state all the challenges you encountered in the week.  The design of the database plays a very important role in a system, and whether the database is perfect directly affects the implementation of your system. The database is designed to meet the needs of the user while minimizing the redundancy of the data.  Therefore, during the design of the database, it is an important and difficult prerequisite to minimize the redundancy and duplication of data. After careful research, the database is designed to reduce the dependencies between data as much as possible and separate them, so as to design a high-quality database. | |
| Briefly Plan out the agenda for next week.  1. Organize and examine the designed database structure and tables to ensure that no important instance attributes are missing.  2. Consult materials and research the specifications and necessary skills for the preparation of SQL files  3. Write a SQL database file for later connection with the backend. | |
| SUPERVISOR SIGNATURE: |  |