|  |  |  |  |
| --- | --- | --- | --- |
|  | **SCAN** | |  |
| **MACHINE** | **COMMAND** | **DATA** | **DATA BASE** |
|  | Get | data\_id | find data\_id |
| Display:  Greeting,  name | Response | name |  |
|  | Post | Reader\_id,  Data\_id,  Name,  Register\_type | Store :  Id,  Reader\_id,  Data\_id,  Name,  Register\_type,  time\_register |
|  | Response | 200 |  |
|  |  | |  |
|  | **ADD** | |  |
| **MACHINE** | **COMMAND** | **DATA** | **DATA BASE** |
|  | Post | Reader\_id,  Data\_id,  User\_category,  Name,  Eigen\_value, | Store:  Id,  Reader\_id,  Data\_id,  User\_category,  Name,  Eigen\_value,  time\_regiter |
|  |  | |  |
|  | **DELETE** | |  |
| **MACHINE** | **COMMAND** | **DATA** | **DATA BASE** |
|  | remove | Data\_id | Remove user base on id |
|  |  | |  |
|  | **RESTORE TO MACHINE** | |  |
| **MACHINE** | **COMMAND** | **DATA** | **DATA BASE** |
|  | Get | Reader\_id | List out all user data |
| Add to reader:  Data\_id,  Eigen\_value | Response | Data\_id,  Eigen\_value, |  |

1.0 API DESIGN

2.0 DATA BASE DESIGN

2.1 Table Users

|  |  |  |  |
| --- | --- | --- | --- |
| No | Column | Data type | Remark |
| 1 | id | Int | Primary key |
| 2 | Data\_id | int | Reader data id |
| 3 | Reader\_id | Int | Reader id number |
| 4 | Name | Varchar (50) | User name |
| 5 | Eigen\_value | Varchar(193) | Fingerprint matrix value |
| 6 | User\_category | int | User category eg. 1: Normal 2: Guest 3: Admin |
| 7 | Time\_register | Time stamp | Register time dan date |

2.2 Table Attendances

|  |  |  |  |
| --- | --- | --- | --- |
| No | Column | Data type | Remark |
| 1 | id | Int | Primary key |
| 2 | Data\_id | int | Reader data id |
| 3 | Reader\_id | Int | Reader id number |
| 4 | Name | Varchar (50) | User name |
| 5 | Regiter\_type | Varchar (10) | Register in or out |
| 6 | Time\_register | Time stamp | Punch time and date |