***High Level Design – Interview Scheduling System***

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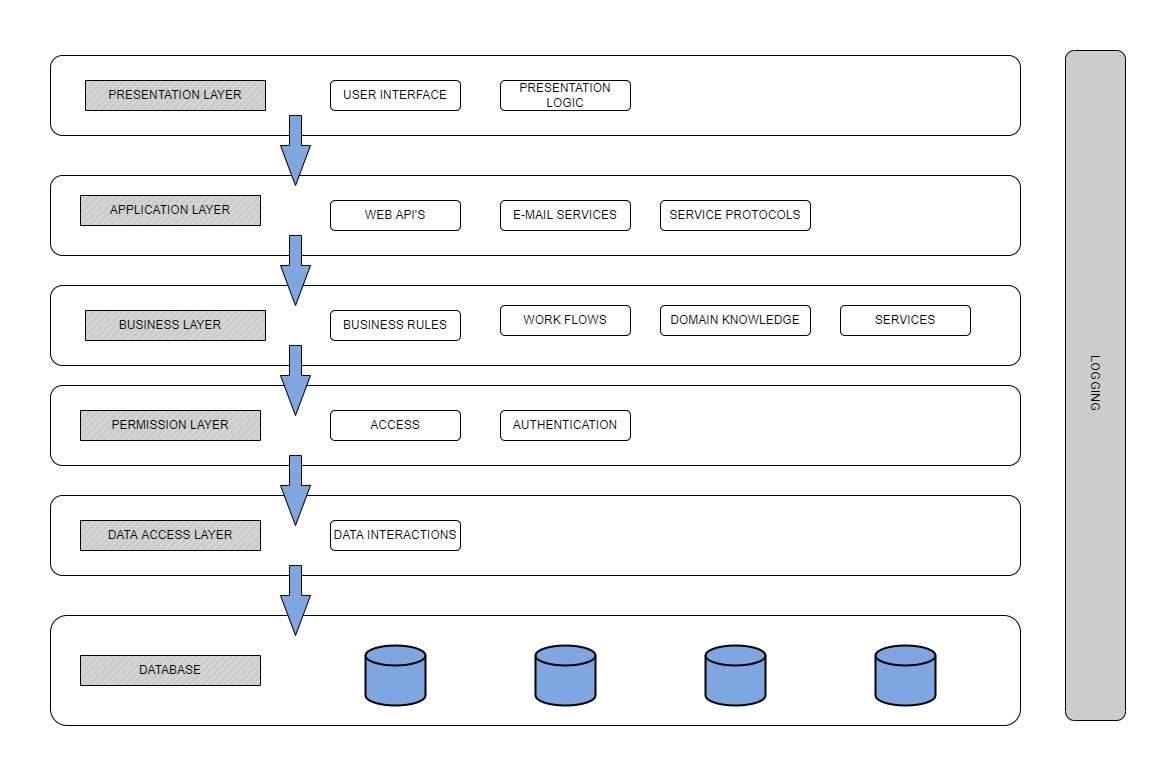
# **Introduction**

This document provides a detailed design of the system. It starts with the design principle used, lists the non-functional requirements and a detail description about the subsystem or components which comprise the system and their interactions.

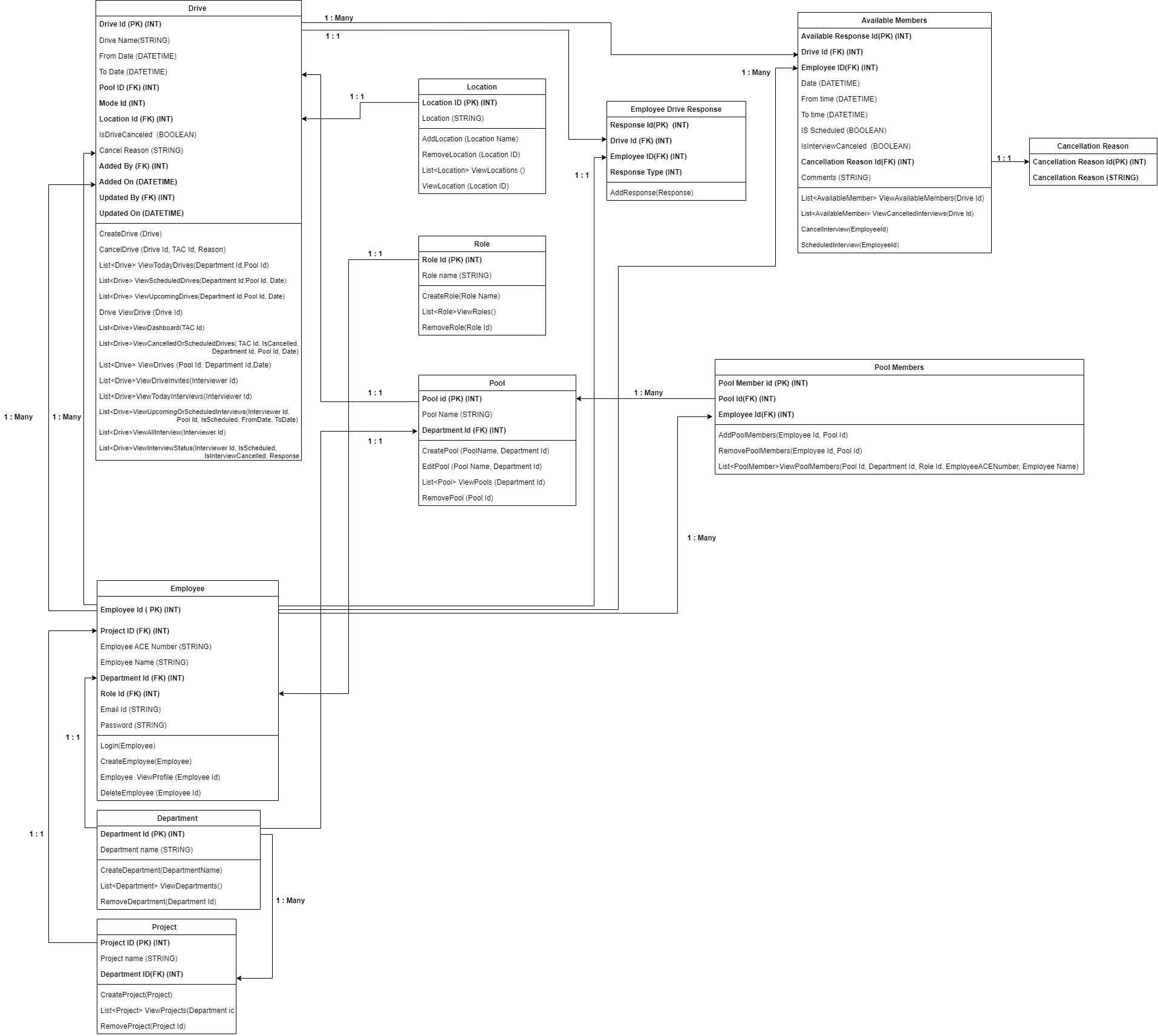
# **System Architecture**

The Interview Scheduling System can be divided into the following subsystems.

* + A subsystem for logging in, create a new user, edit the details etc.
  + The Interview Scheduling system which can provide access for interviewer, schedule drive, cancel drive, create pools, manage pools, view statistics of interviewers.



# **Database Diagram**



A subsystem for logging in,

# **Database Dictionary**

**Table 1. DRIVE**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data type** | **Constraints** | **Description** |
| Drive ID | integer | Primary key | ID for each Drive |
| From Date | Int | Not null | Beginning date of Drive |
| To Date | Int | Not null | End date of Drive |
| Pool ID | Int | Foreign Key | ID for each Pool |
| Role | nVarchar (20) | Not null | Role of an Employee |
| Mode ID | Int | Foreign Key | ID for each Mode |
| Location ID | Int | Foreign Key | ID for each Location |
| Added by | Int | Foreign Key | Name of the Created person the drive |
| Added on | DateTime | Not null | Date & Time of the drive |
| Updated by | Int | Foreign Key | Name of the person updated the drive |
| Updated on | DateTime | - | Updated Date & Time of the drive |
| Is Drive Cancelled | Bool | Not null | Flag to Find drive status |
| Cancel Reason | nVarchar (500) | - | Reason for Cancellation of Drive |

**Table 2. POOL**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data type** | **Constraints** | **Description** |
| Pool ID | integer | Primary key | ID of the Pool |
| Pool Name | nvarchar (50) | Not Null | Name of Pool |
| Department ID | Int | Not null | ID of the Department |

**Table 3. DEPARTMENT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraints** | **Description** |
| Department ID | Int | Primary key | ID of each Department |
| Department Name | nvarchar (50) | Not null | Name of department |

**Table 4. ROLE**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraints** | **Description** |
| Role ID | Int | Primary key | ID of each Role |
| Role Name | nvarchar (50) | Not null | Name of Role |

**Table 5. EMPLOYEE**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraints** | **Description** |
| Employee ID | Int | Primary Key | ID for each Employee |
| Employee Name | nvarchar (30) | Not null | Name of Each Employee |
| Department ID | Int | Foreign Key | ID of each Department |
| Role ID | Int | Foreign Key | ID of each Role |
| Email ID | nvarchar() | Not null | Email ID of Each Employee |
| Password | nvarchar() | Not null (Minimum 8) | Not null |

**Table 6. PROJECT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraints** | **Description** |
| Project ID | Int | Primary Key | ID for each project |
| Project Name | varchar (50) | Not null | Name of each project |
| Department ID | Int | Foreign Key | ID of each Department |

**Table 7. LOCATION**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraints** | **Description** |
| Location ID | Int | Primary key | ID of each Location |
| Location | nvarchar (50) | Not null | Name of Location |

**Table 8. POOL MEMBERS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data type** | **Constraints** | **Description** |
| Pool Member ID | Int | Primary key | ID of the Pool Member |
| Pool ID | Int | Foreign Key | ID of each Pool |
| Employee ID | Int | Foreign Key | ID for each Employee |

**Table 9. RESPONSE**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data type** | **Constraints** | **Description** |
| Response ID | Int | Primary key | ID of each response |
| Response type ID | Int | Foreign Key | ID of each Drive |
| Employee ID | Int | Foreign Key | ID for each Response Type |

**Table 10. AVAILABLE RESPONSES**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraints** | **Description** |
| Available Response ID | Int | Primary Key | ID for each Available Response |
| Drive ID | Int | Foreign Key | ID for each Drive |
| Employee ID | Int | Foreign Key | ID for each Response Type |
| Date | Int | Not null | Date of Response |
| From Time | Int | Not null | From Time |
| To Time | Int | Not null | To Time |
| Is Scheduled | Bool | Not null | Flag to Find drive status |
| Is Interview Cancelled | Bool | Not null | Flag to Find drive status |
| Cancellation Reason ID | Int | Foreign Key | Id for each cancellation Reason |
| Comments | nvarchar(500) | Not null | Comments for cancellation |

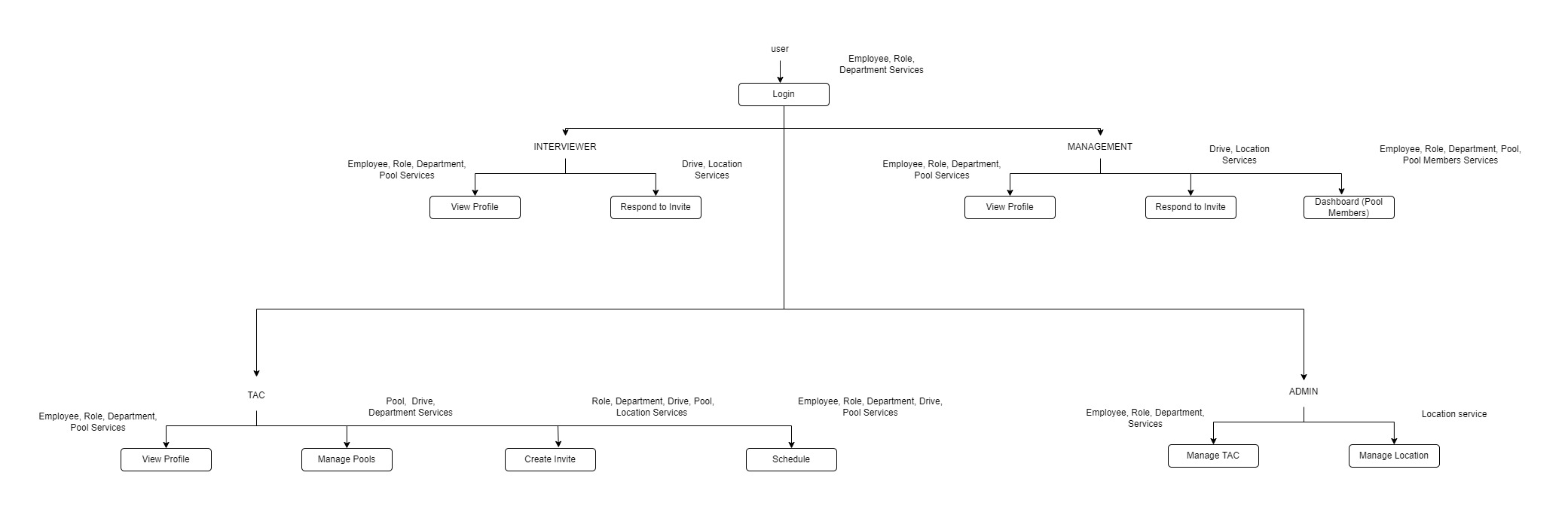
**Table 11. CANCELLATION REASON**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Datatype** | **Constraints** | **Description** |
| Cancellation Reason ID | Int | Primary Key | ID of each Cancellation Reason |
| Cancellation Reason | nvarchar (50) | Not null | Reason for cancellation |

**SERVICES**

* Drive ( Drive , Employee Response, Available Members, Cancel Reason )
* Location
* Employee
* Role
* Department ( Department, Project )
* Pool ( Pool, Pool Members )

**SERVICE INTERACTIONS DIAGRAM**



**NON-FUNCTIONAL REQUIREMENTS**

**SCALABILITY:**

Parallelly more than 50+ interviewers and TAC members can access this software at a time. Thus, based on server response, Interviewers can access this system.

**INTEROPERABILITY:**

Being able to move the system Software from one machine platform to another. So, that even people can schedule interview from their mobiles.

**RESPONSIVENESS:**

Design approach used to create content that adjusts smoothly to various screen sizes.The quality of reacting quickly when requests are generated from any interviewers.

**SECURITY:**

Only TAC and ADMIN can give access to login and also can have to control to maintain the POOL & DRIVE. One should not cancel any drive using someone else's login.

# **Modification History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Author(s)** | **Change Description** | **Version** |
| 19-04-2022 | TEAM ALPHA | Created Document | 1.0.0 |
| 20-04-2022 | TEAM ALPHA | Edited Alignments and Data Models | 1.1.0 |
| 21-04-2022 | TEAM ALPHA | REFINED WHOLE STRUCTURE | 2.0.0 |
| 22-04-2022 | TEAM ALPHA | REFINED WHOLE STRUCTURE | 2.1.0 |