Functional Requirements Document (FRD) for Employee Database

The purpose of this project is to create an Employee database with the following fields: EmployeeID, EmployeeName, and DateOfBirth. The EmployeeID will be the primary key for the table, and it will be used to query single records. The system will be developed using Springboot or an Application server such as Tomcat, WebLogic, etc. Invalid EmployeeID error should be returned if the EmployeeID is not matched.

The Employee database should have the following functionalities:

- The Employee table should be created with the following columns: EmployeeID, EmployeeName, and DateOfBirth. The EmployeeID column should be the primary key, and it should auto-increment for new records.
- Add Employee The system should allow adding new employees to the database with the following details: EmployeeID: auto-generated EmployeeName: mandatory, up to 50 characters DateOfBirth: mandatory, date format
- Query Employee The system should allow querying a single employee record based on EmployeeID. The system should return the EmployeeName and DateOfBirth for the EmployeeID. If the EmployeeID is not matched, an Invalid EmployeeID error message should be returned.

The following Non-functional requirements should be considered while developing the system:

- Performance The system should be able to handle a large number of records efficiently.
- Security The system should ensure the privacy and confidentiality of employee information.
- Scalability The system should be scalable to handle future enhancements and an increase in data volume.

Technology Stack The following technology stack is recommended for developing the system:

- Programming Language: Java
- Framework: Springboot
- Database: MySQL
- Application Server: Tomcat or WebLogic

Conclusion

The Employee database with the functionalities mentioned above will help organizations manage their employee records efficiently. The system can be enhanced with additional functionalities such as updating employee records, deleting employee records, etc. based on the organization's requirements.

Database Template: -

Table Name: - Employee

Columns: - employeeId (Primary Key)

employeeName

dateOfBirth