Employee Management System Project Proposal

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Technologies Used

1. Angular 16
2. Bootstrap
3. Asp.net core 6 APi
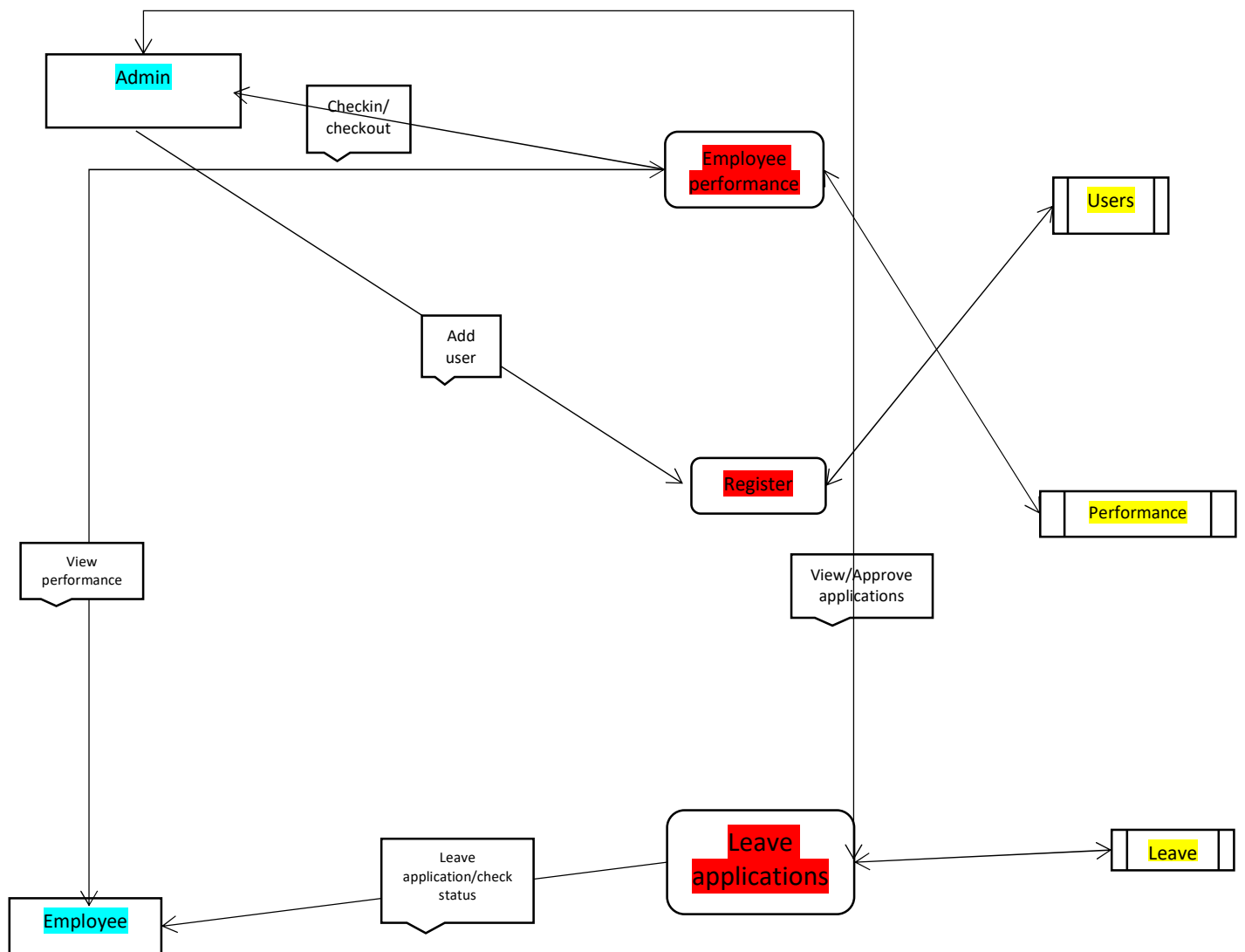4. MSSQL Database

Working of the application

The home page of the application is the login page . A new user navigates to the signup page to register to create an account which is automatically given the role of admin. Upo login , the user first needs to create a company by providing a company name. After creating a company , the user is able to add new employees , perform employee check in and check out , view details of all their employees and approve leave applications.

A user created by another user is afforded the role of user and they are redirected to the user dashboard upon logging into the system. They are able to view their performances , make leave applications and check the status of their applications.

For each leave application made , a notification is sent,in the form of an email to the admin who created that user to let them know about the application. If the admin approves the request, notifications are sent to all other users created by the admin.

The admin performs check in and check out on employees. The hours worked by each employee are calculated automatically upon checkout as the difference between check in time and check out time.

The working of the application can be summarized by the data flow diagram below:

Admin

Checkin/
checkout

**Employee
performance**

Users

Add
user

Register

Performance

View
performance

View/Approve
applications

**Leave
applications**

Leave

Leave
application/check
status

Employee

KEY:
Blue :Entities
Red:Processes
Yellow:Data Stores

Database

The application uses mssql database.The database has four tables for storing data :Users, performances , leave and company table. The database information is summarized with the ER Diagram below: