

HR Management System

INSTITUTE OF ENGINEERING & TECHNOLOGY, DAVV

DEPARTMENT OF COMPUTER ENGINEERING, INFORMATION TECHNOLOGY



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INTRODUCTION

In today's dynamic and fast-paced business environment, effective management of human resources is paramount to an organization's success. The HR Management System is a comprehensive and intuitive web application designed to empower businesses and HR departments in streamlining their workforce management processes. This application provides a one-stop solution to centralize, automate, and secure HR operations. With features that enhance data accuracy, simplify compliance, the HR Management System is your partner in achieving an efficient, organized, and forward-thinking HR management approach. Welcome to a new era of HR management, where innovation meets the art of people management.

PROBLEM DEFINITION

The existing solutions for HR Management system are very complex to understand and are usually not cost effective. For example ,workday which is a cloud based HR management System, requires cloud subscription which can be costly. Similarly, Arcoro another HR management System has a very complex UI which can be difficult to operate for an HR

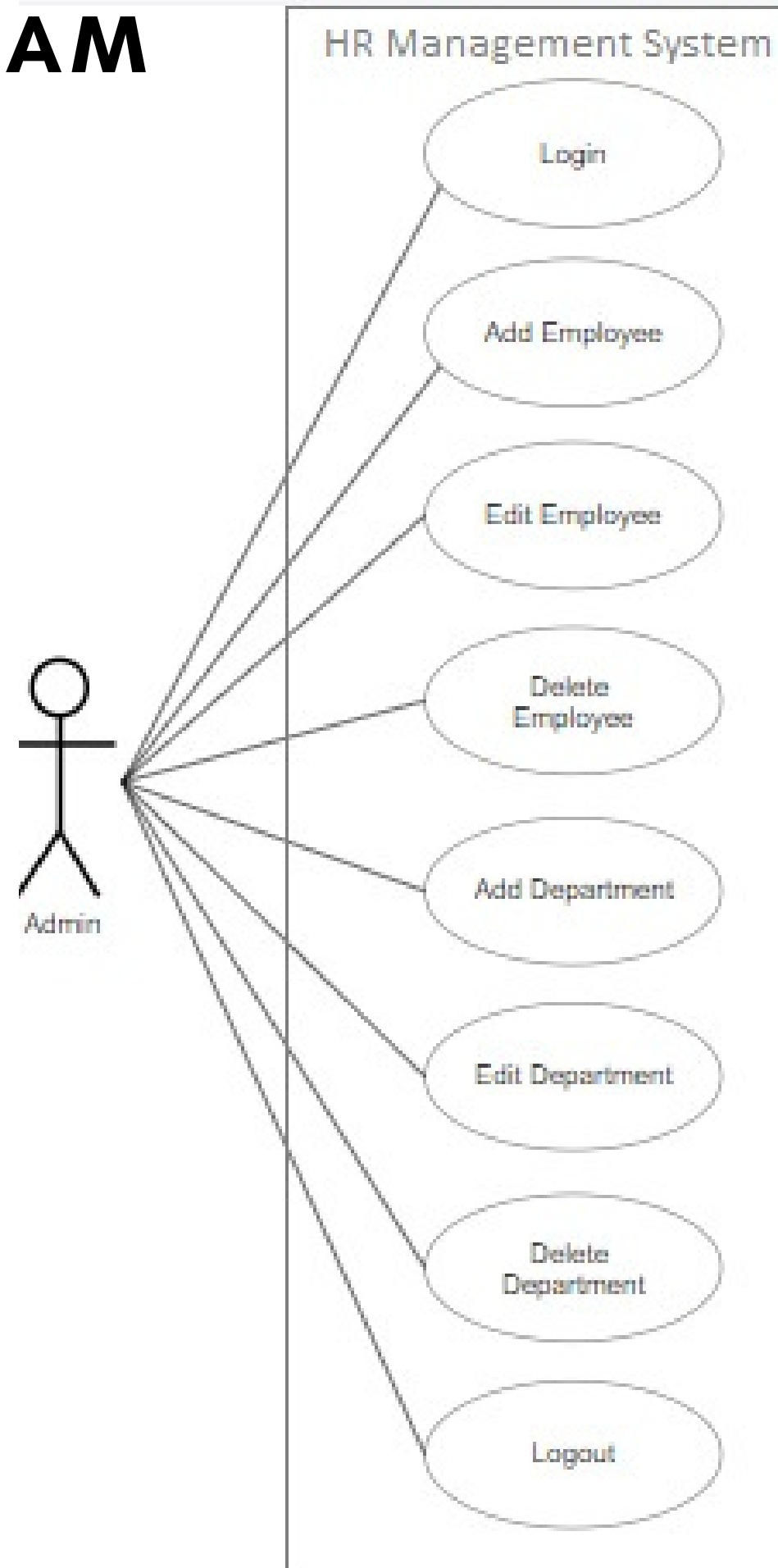
PROPOSED SOLUTION

The proposed solution is an web based application. The application will be designed to provide an intuitive and user-friendly interface that allows admin to manage data efficiently. The application is cost effective solution and provides a faster processing as compared to other solutions. The application will be developed using the MERN stack

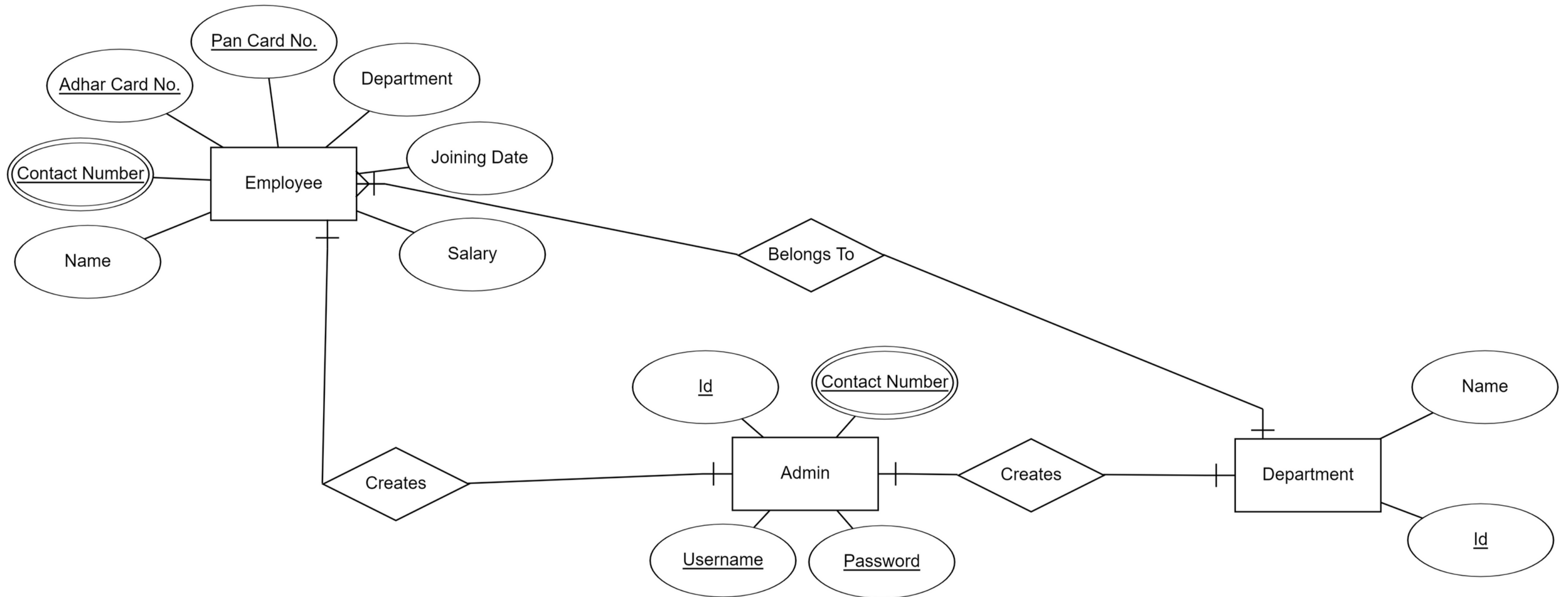
FEATURES

1. *User Authentication and Authorization: Secure login and role-based access control for HR administrators*
2. *Document Management: Upload and manage employee documents*
3. *Cost effective : our application does not require any subscription.*
4. *Faster processing: The use of React JS makes query processing faster and effective.*
5. *User-friendly interface*

USE CASE DIAGRAM

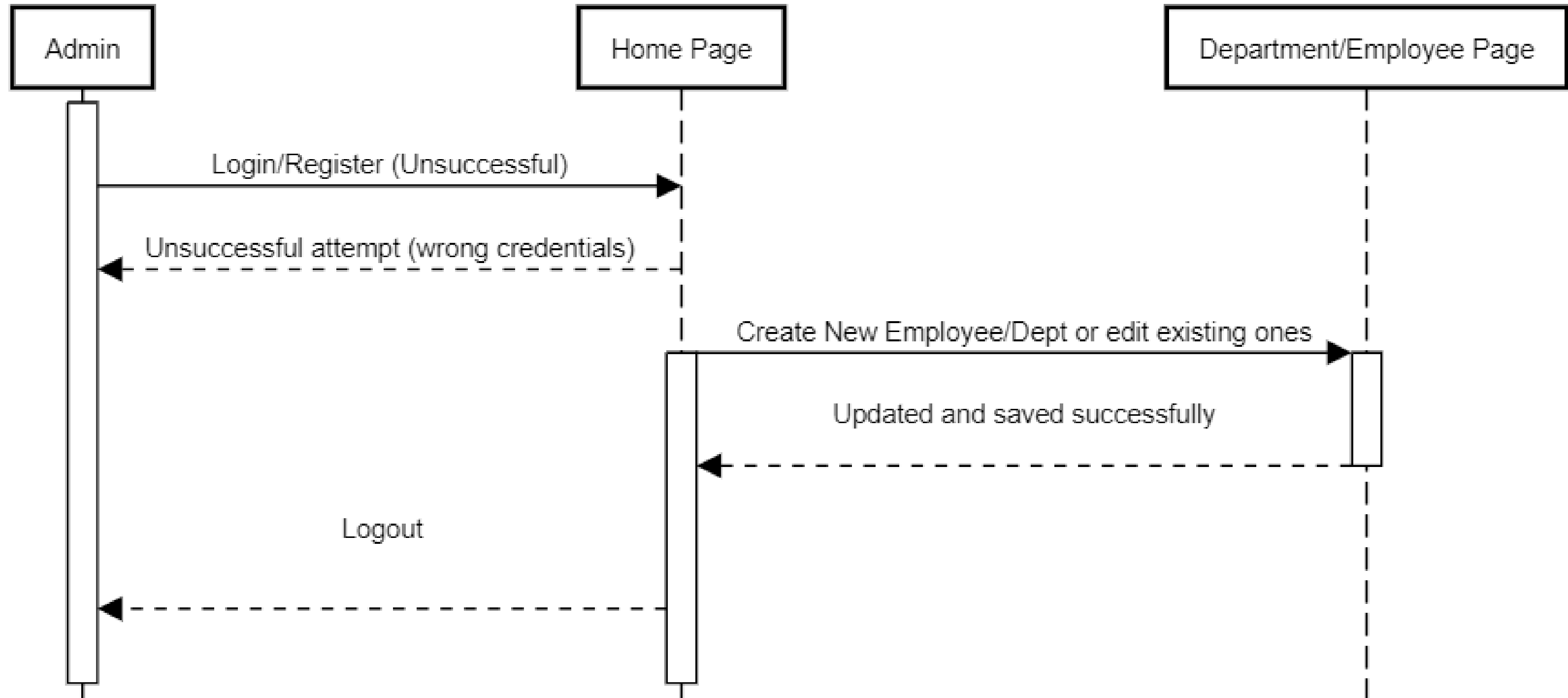


ER DIAGRAM

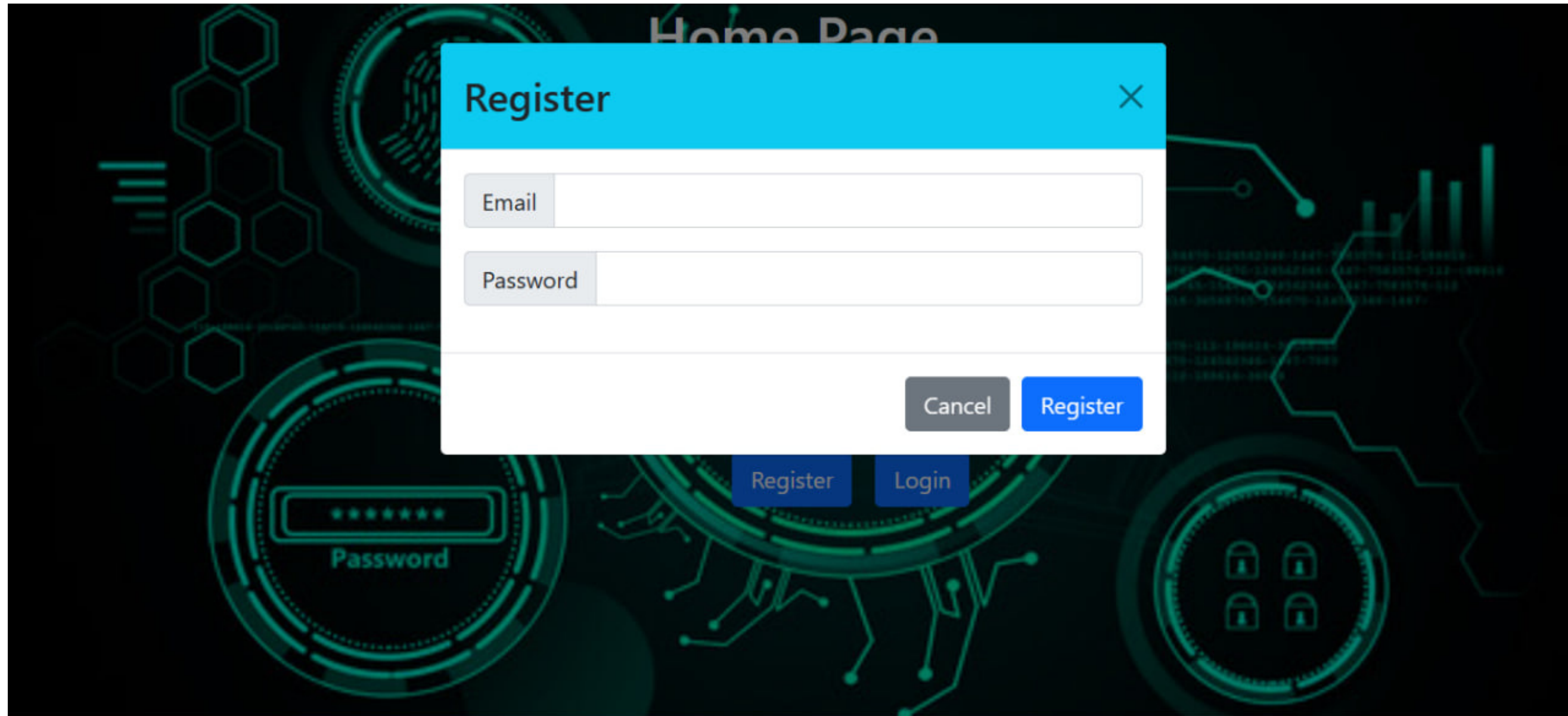


SEQUENCE DIAGRAM

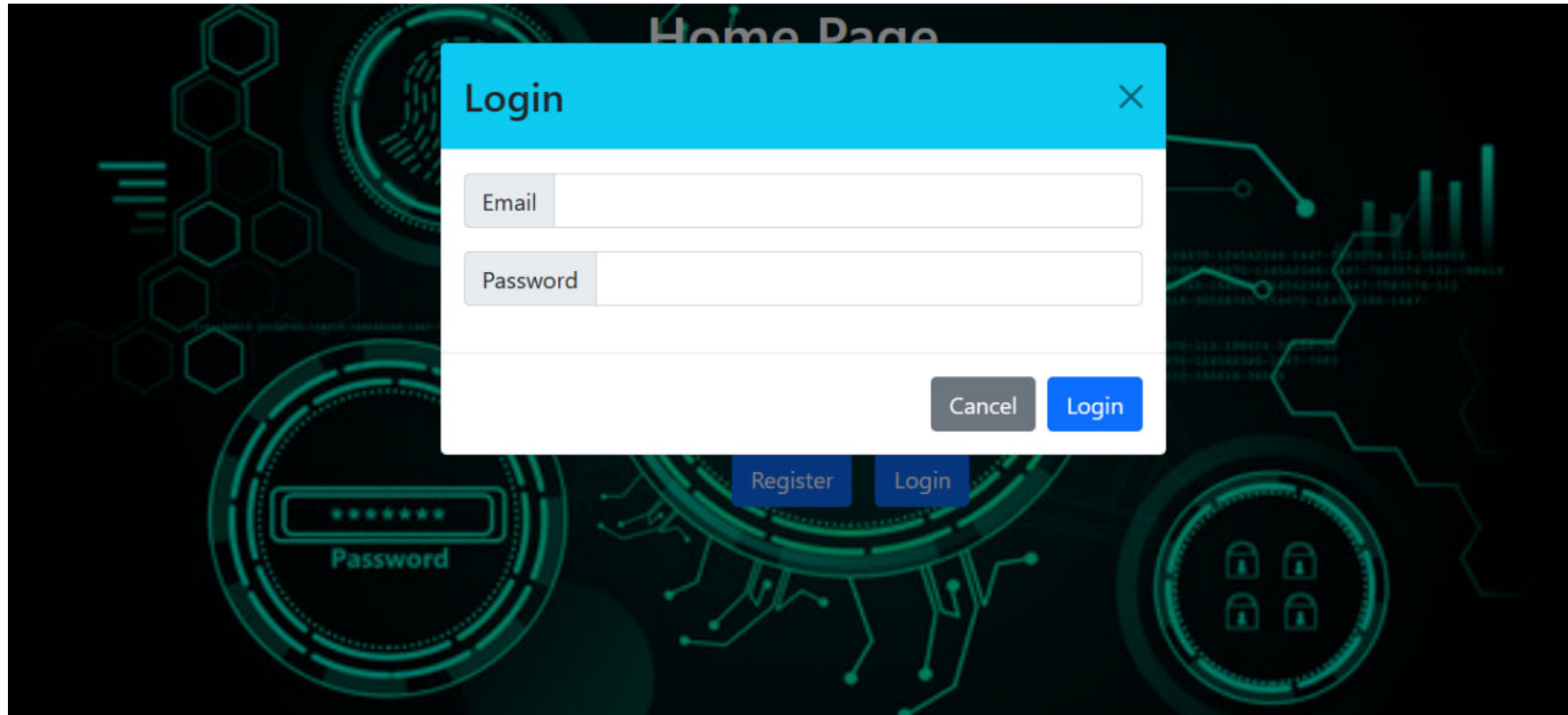
HR Management System Sequence Diagram



DEMONSTRATION



DEMONSTRATION



DEMONSTRATION













logout ➡

DEPARTMENT


EMPLOYEE

Employee Management System

Add Department

DepartmentId	DepartmentName	Action
8851	Computer Science	 
5fa8	Philosophy	 
0b4d	IT	 
a66c	Biology	 
de63	Mathematics	 
7fc1	HPE	 

DEMONSTRATION
















logout 

DEPARTMENT

EMPLOYEE

Employee Management System

Add Employee

EmployeeId	EmployeeName	profile photo	Department	Date of Joining	Actions
b8b1	Tola Lemma		Computer Science	2022-11-14T00:00:00.000Z	 
0668	Taddese Tsega		IT	2023-02-26T00:00:00.000Z	 
1007	Yeabisera Tesfaye		Computer Science	2023-03-14T00:00:00.000Z	 
b010	Selamawit Tammiru		HPE/Sport Science	2023-03-14T00:00:00.000Z	 
dc7b	Yerosan Shegaw		Afaan Oromo	2023-03-06T00:00:00.000Z	 

DEMONSTRATION

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EmployeeId

b8b1

0668

1007

b010


dc7b

Update Employee

EmployeeName: Tola Lemma

Deparment: Computer Science

Date of Joining: mm/dd/yyyy



Choose File

No file chosen

Update

Add Employee

Actions

CONCLUSION

In conclusion, the HR Management System is a comprehensive web application designed to address the complex challenges faced by organizations in managing their human resources efficiently and securely. By utilizing a technology stack that combines React.js for the frontend and Node.js for the backend, it offers an intuitive user interface and scalable, performance-driven backend architecture. The system centralizes employee and department data, enhances data accuracy, and ensures robust security through user authentication and authorization. With the ability to scale, integrate with other HR tools, and incorporate data privacy measures, the HR Management System serves as a versatile and secure solution for streamlining HR processes and promoting effective and efficient HR data management within organizations.

THANK YOU!