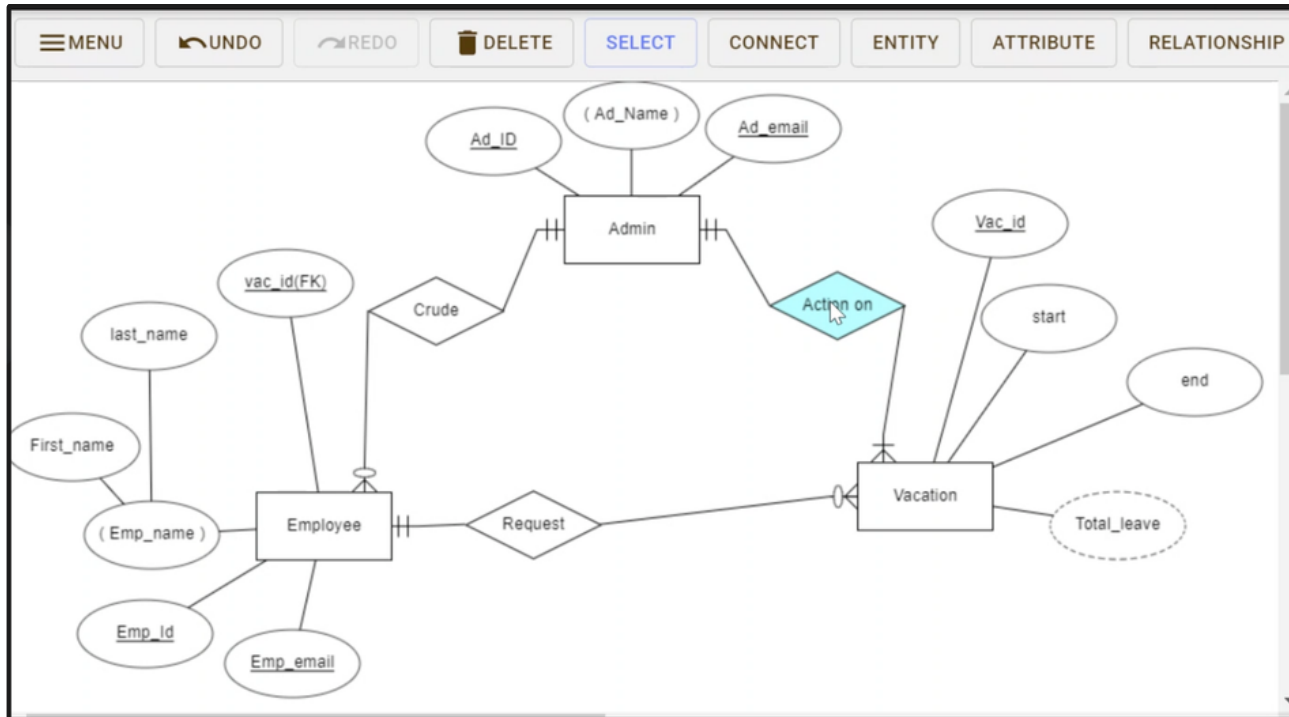


Employee management System

Data Model & Schema

- Defining your Data → ERD (How you are going to save the physical data) In this case Relational DB

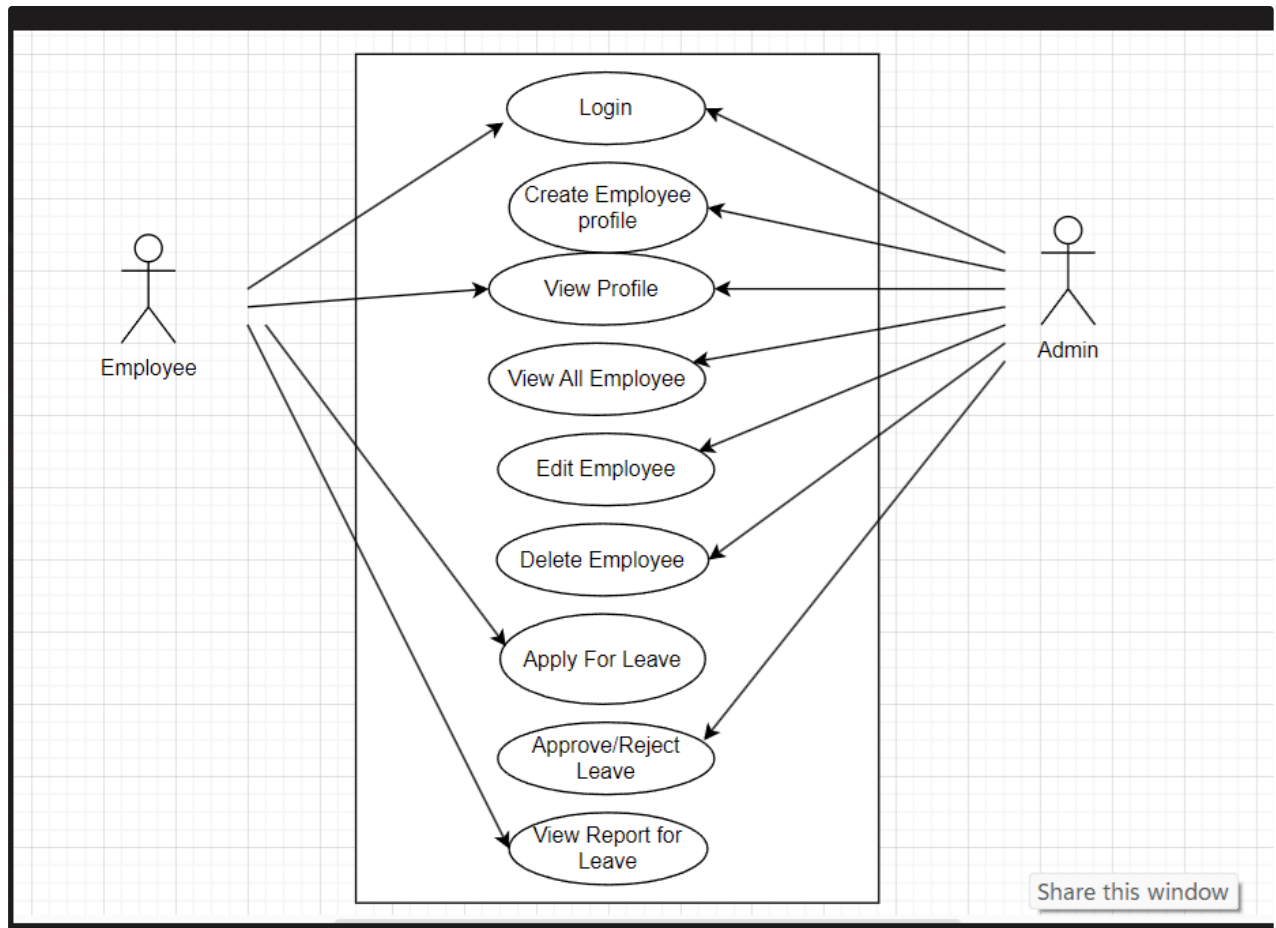


- Define the mechanism in selected physical data store -
 - Write SQL structure queries to store the data
 - Confirm if the data insert update is working.

- Define a logical alternative

```
1 {  
2   "first_name": "Masud";  
3   "last_name" : "Alam";  
4   "employee_id": 2109021;  
5 }
```

- Develop Generic Use case (what should the system do or actor should be able to do with the user



Functional Specification

	EndPoint	GET	POST	PUT	DELETE
Employee: Apply for vacation	Vacation_apply/api/		1.Post an application with attached file		2.Delete application
	vacation_apply/api/<int:vacation_id>	3.Get a vacation id based on pervious application	4.Post application using vacation id		
Admin : Approve or reject an application	Vacation_apply/api/	1.See pending vacation apply list		2.Approve or reject the apply	
	vacation_apply/api/<int:vacation_id>	3. Get an application with vacation id and employee id		4. Update an application by approving or rejecting	

The problem states that this will be an api . So we should be designing some api endpoints which would perform this activities (use cases)

With these configurations, you will have the following API endpoints:

Technical Specification

***Employees:

- GET /employees/: Retrieve a list of all employees
 - how will you send data .
 - what is the format of the data
 - 1
- GET /employees/{id}/: Retrieve details of a specific employee
- POST /employees/: Create a new employee
 - data validation
 - appropriate response
 - how to read the data
- PUT /employees/{id}/: Update an existing employee
- DELETE /employees/{id}/: Delete an employee

***Vacation Requests:

- GET /vacation-requests/: Retrieve a list of all vacation requests
- GET /vacation-requests/{id}/: Retrieve details of a specific vacation request
- POST /vacation-requests/: Create a new vacation request
- PUT /vacation-requests/{id}/: Update an existing vacation request
- DELETE /vacation-requests/{id}/: Delete a vacation request

***Vacation Request Status:

- GET /vacation-requests/status/{id}/: Retrieve the specific status of a vacation request

***Employee Vacation Count:

- GET /employees/{id}/vacation-count/: Retrieve the count of vacation requests made by an employee

Sequence Diagram , Data flow Diagram

