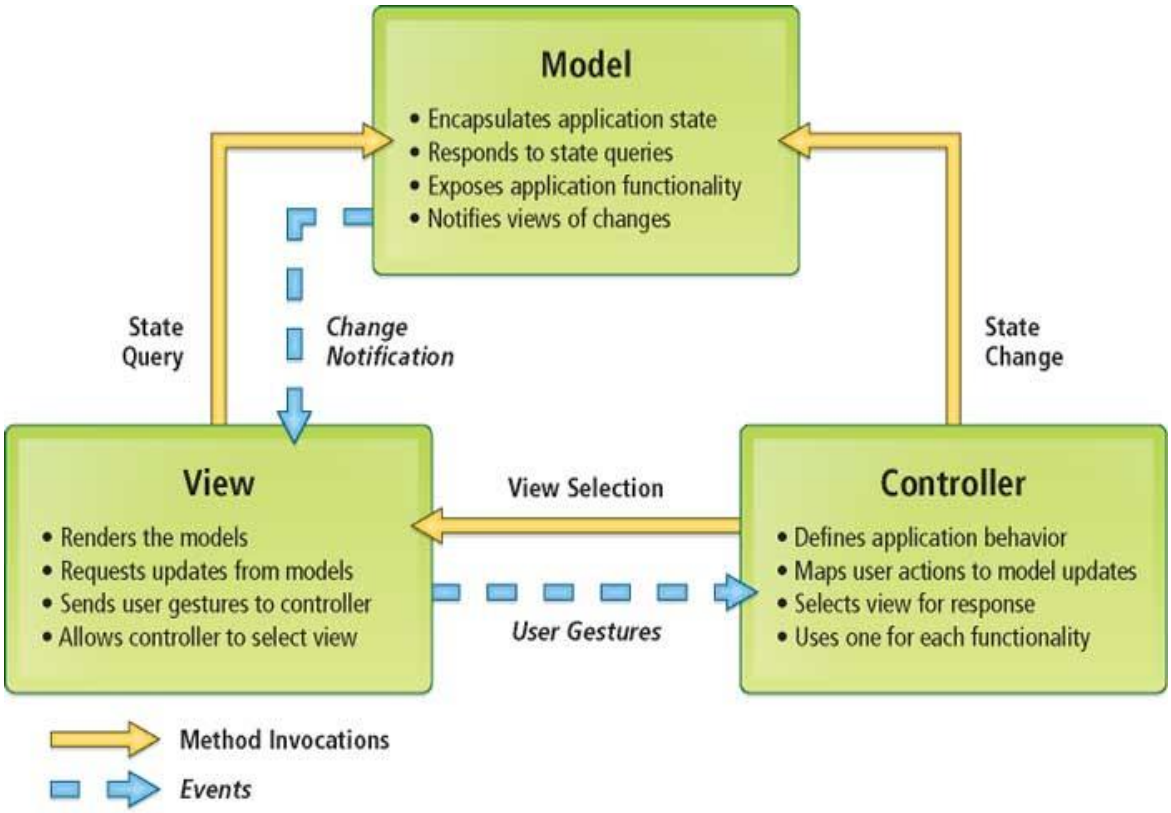
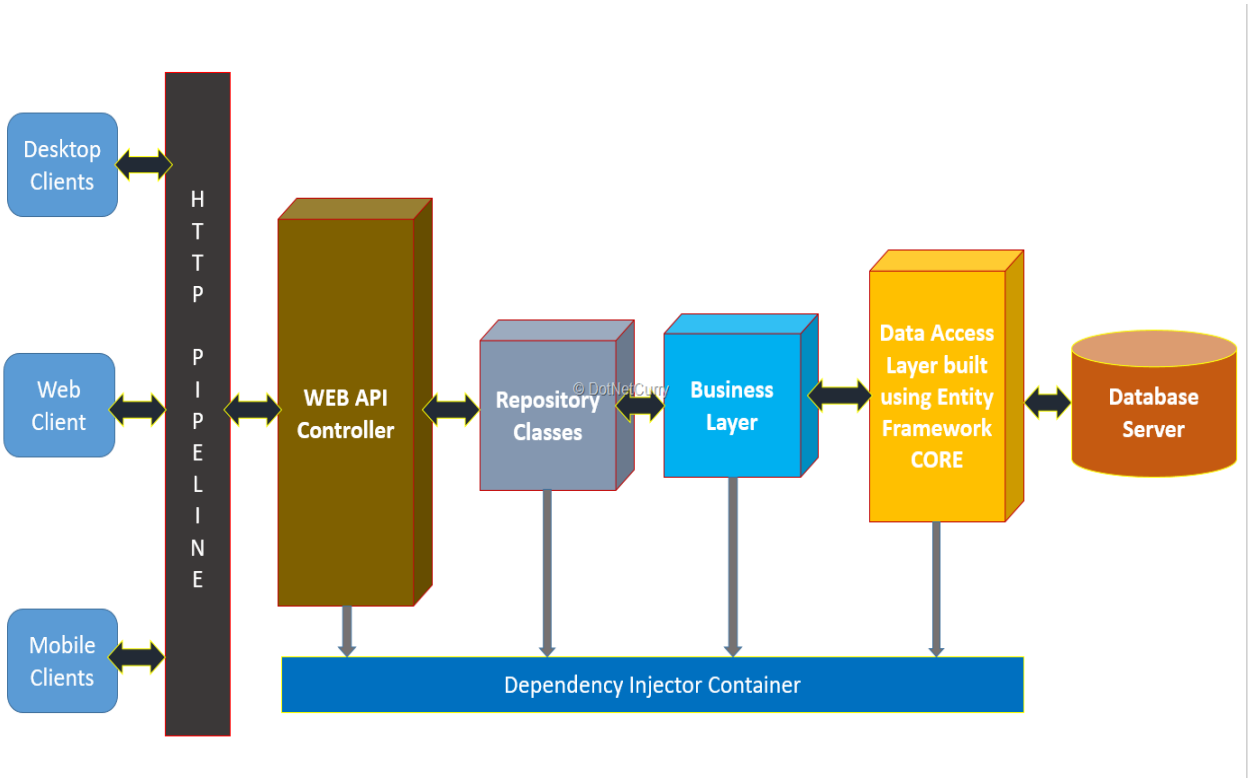
REVIEW II

I. Architecture & Design of the Project





Architecture of the Project

1. Presentation Tier:

Is the tier in which the users interact with application. Presentation Tier contents Model, View, Controller used to receive a request and response to User.

Technology: ReactJs, SCSS, JavaScript, Axios, Bootstrap

2. Business Logic Tier:

Is mainly working as the bridge between Data Tier and Presentation Tier. All the Data passes through the Business Tier before passing to the Presentation Tier.

Technology: ASP.NET Core 3.1.10 MVC

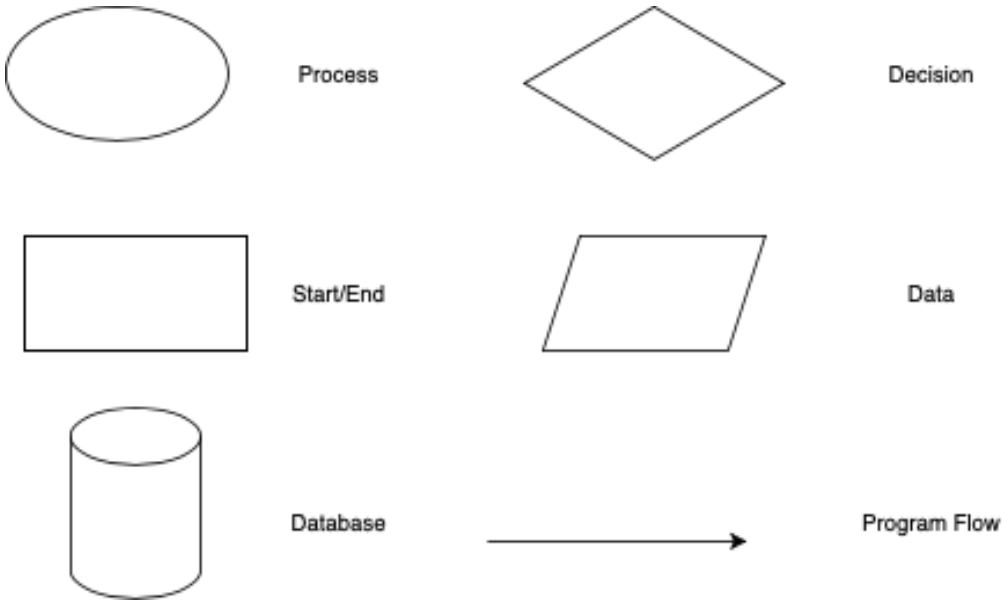
3. Data Access Tier:

Is basically the server which stores all the application's data . Data tier contents Database Tables, Database Views and other means of storing Application Data .

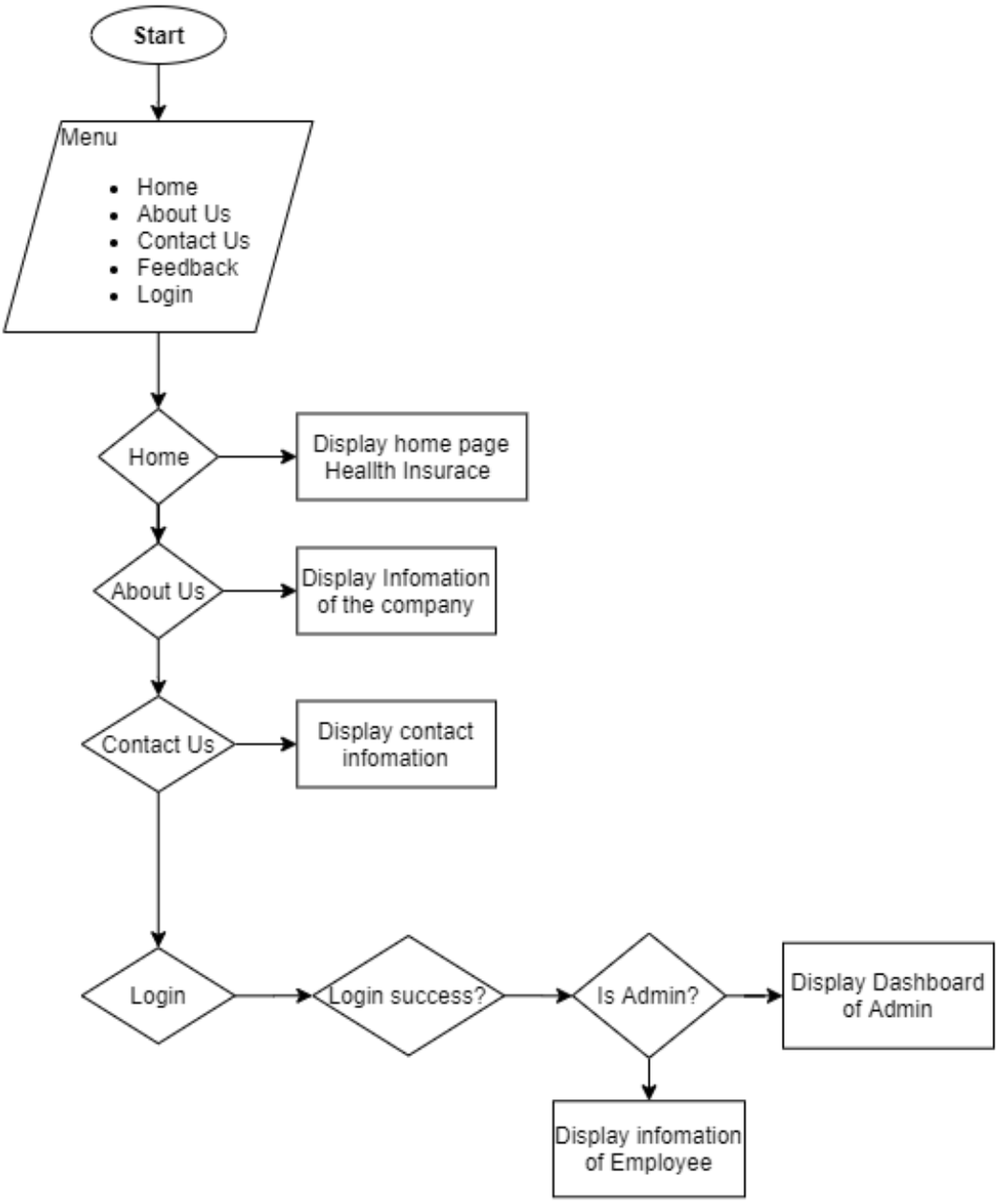
Technology: SQL Server, LINQ

II. Algorithms - Data Flowchart

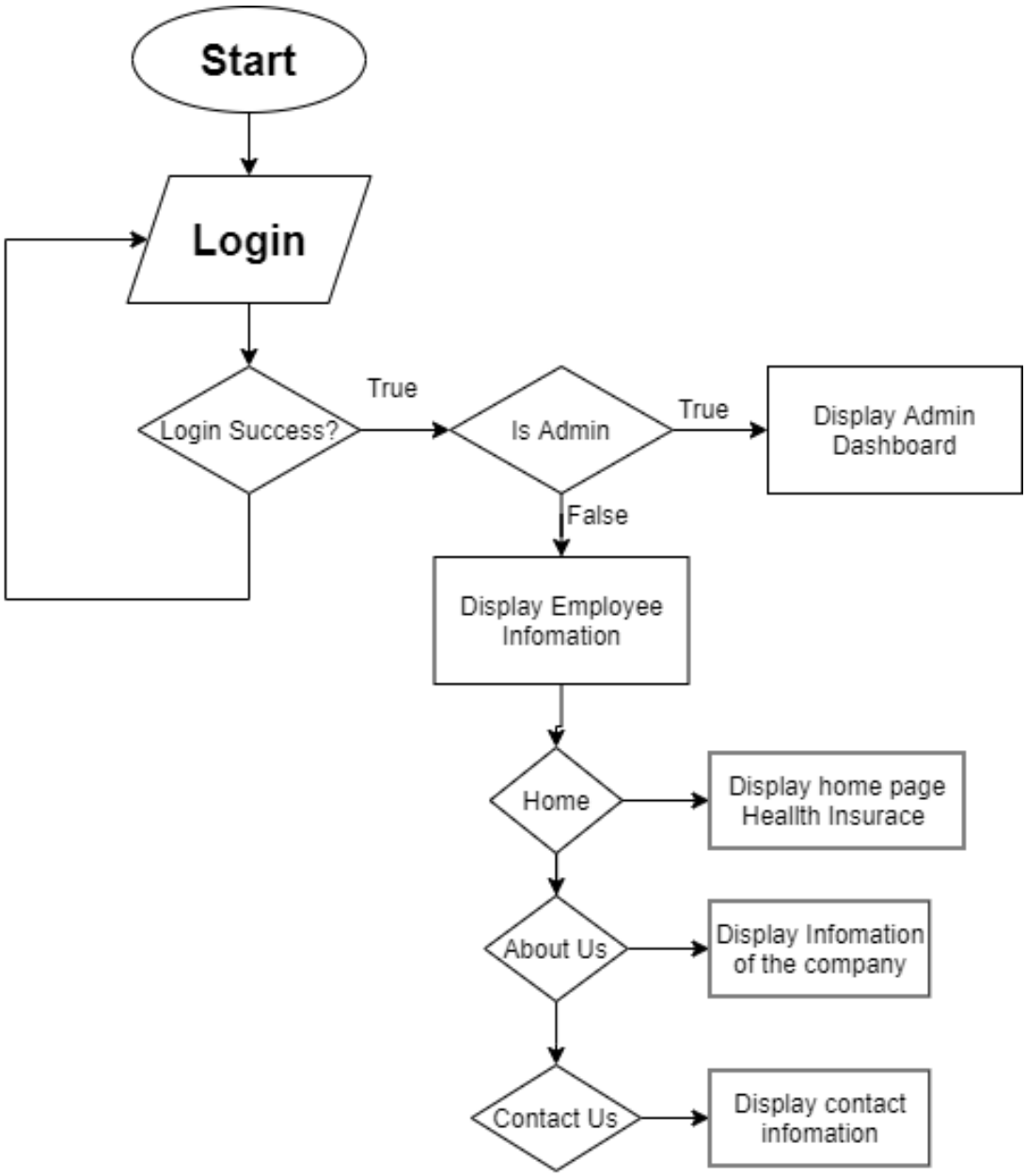
Symbol generates:



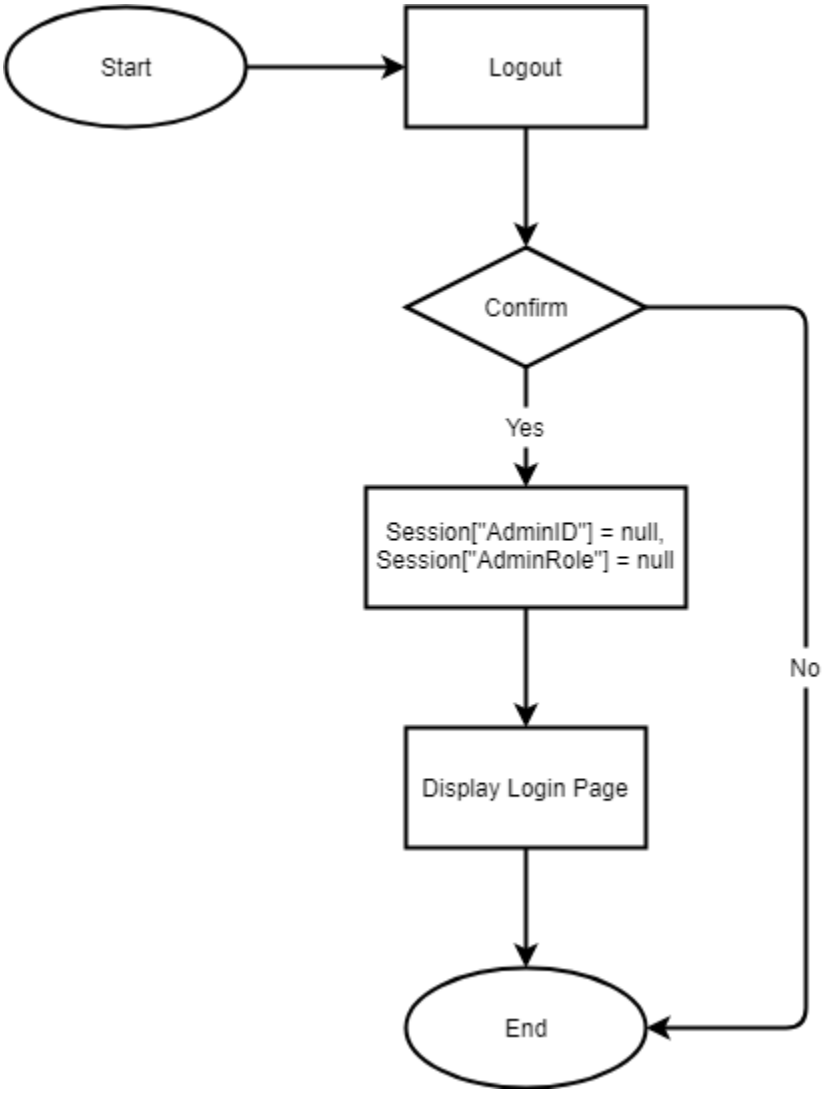
1. Main data flow for guest



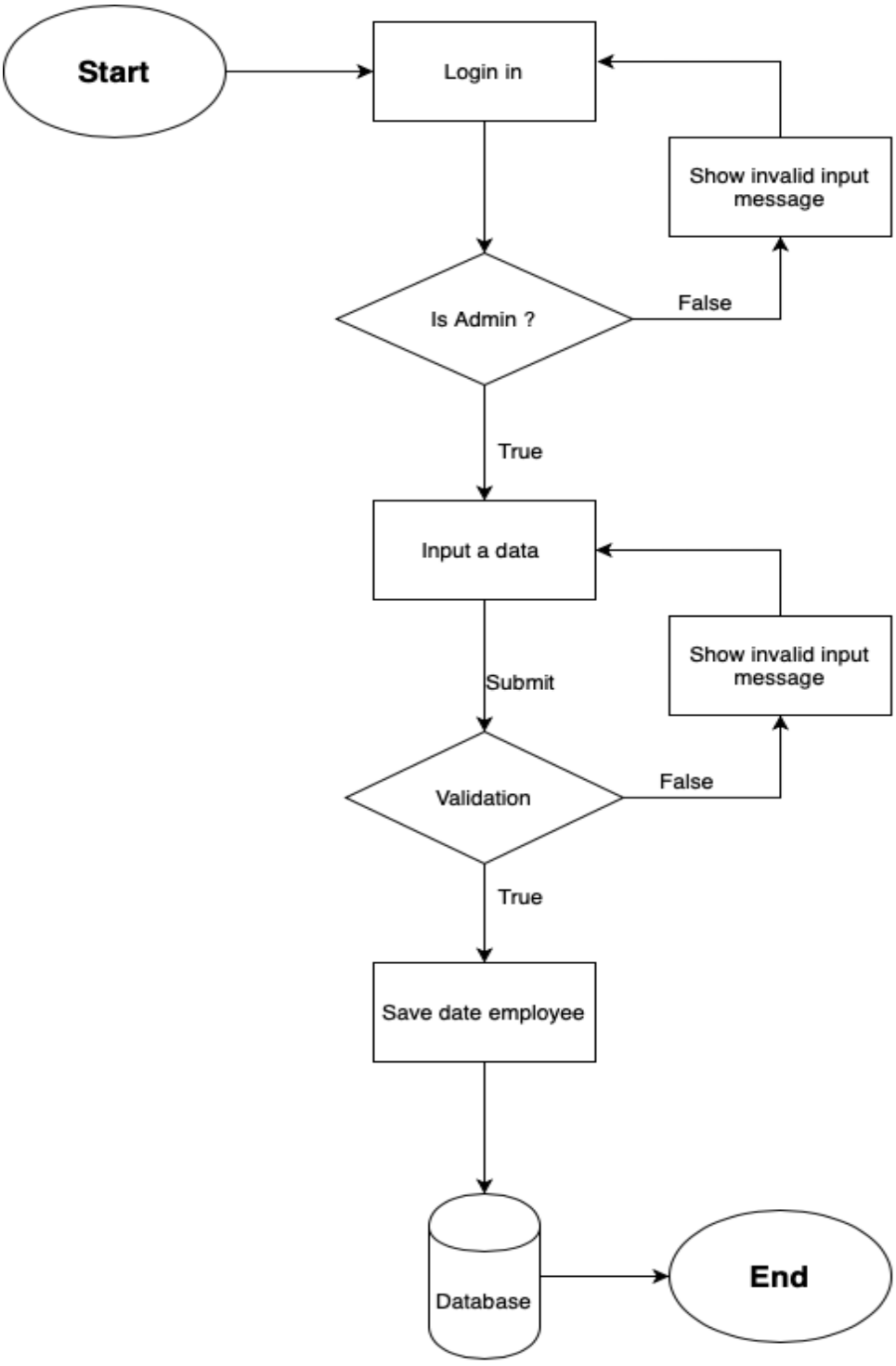
2. Login Function



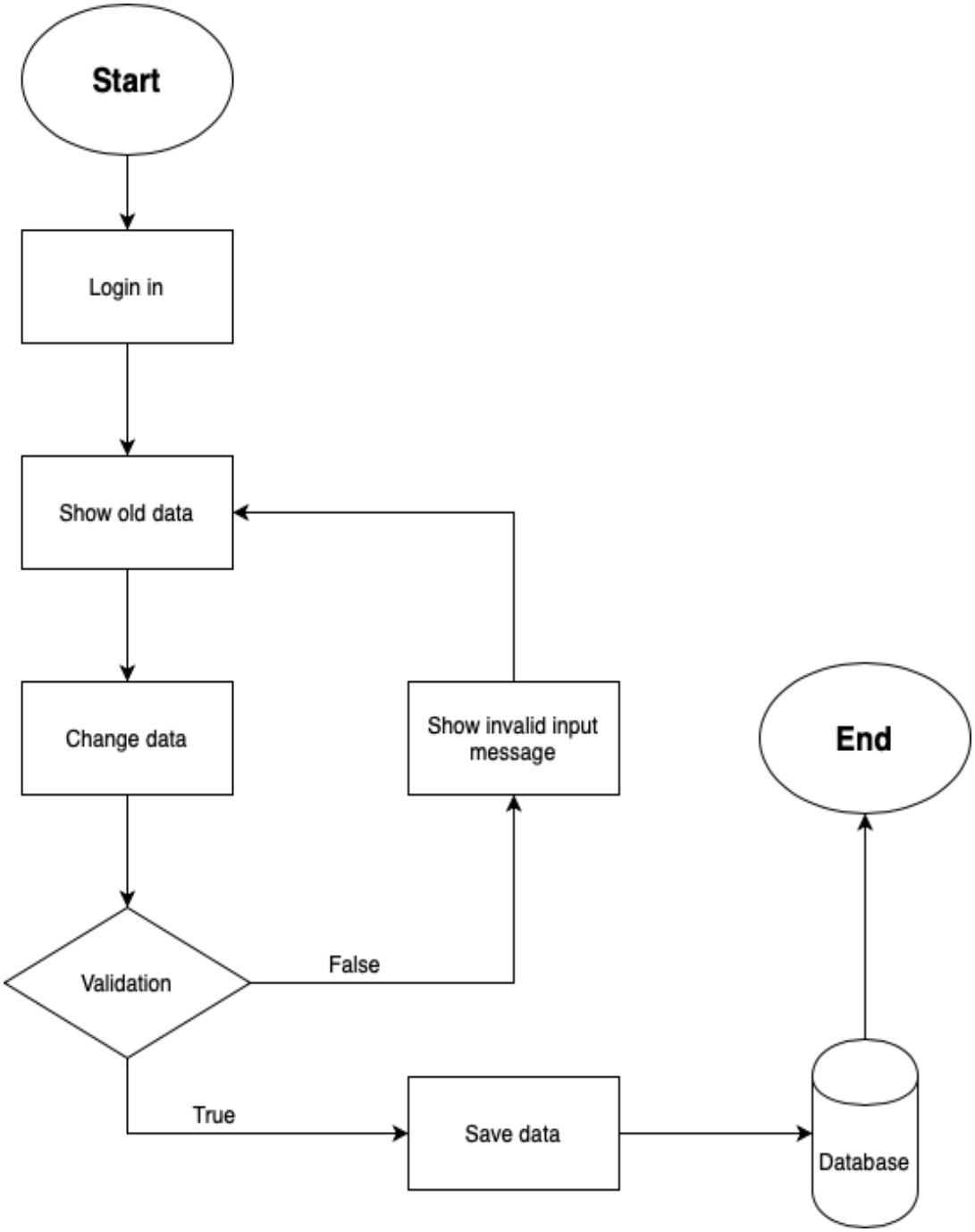
3. Logout Function



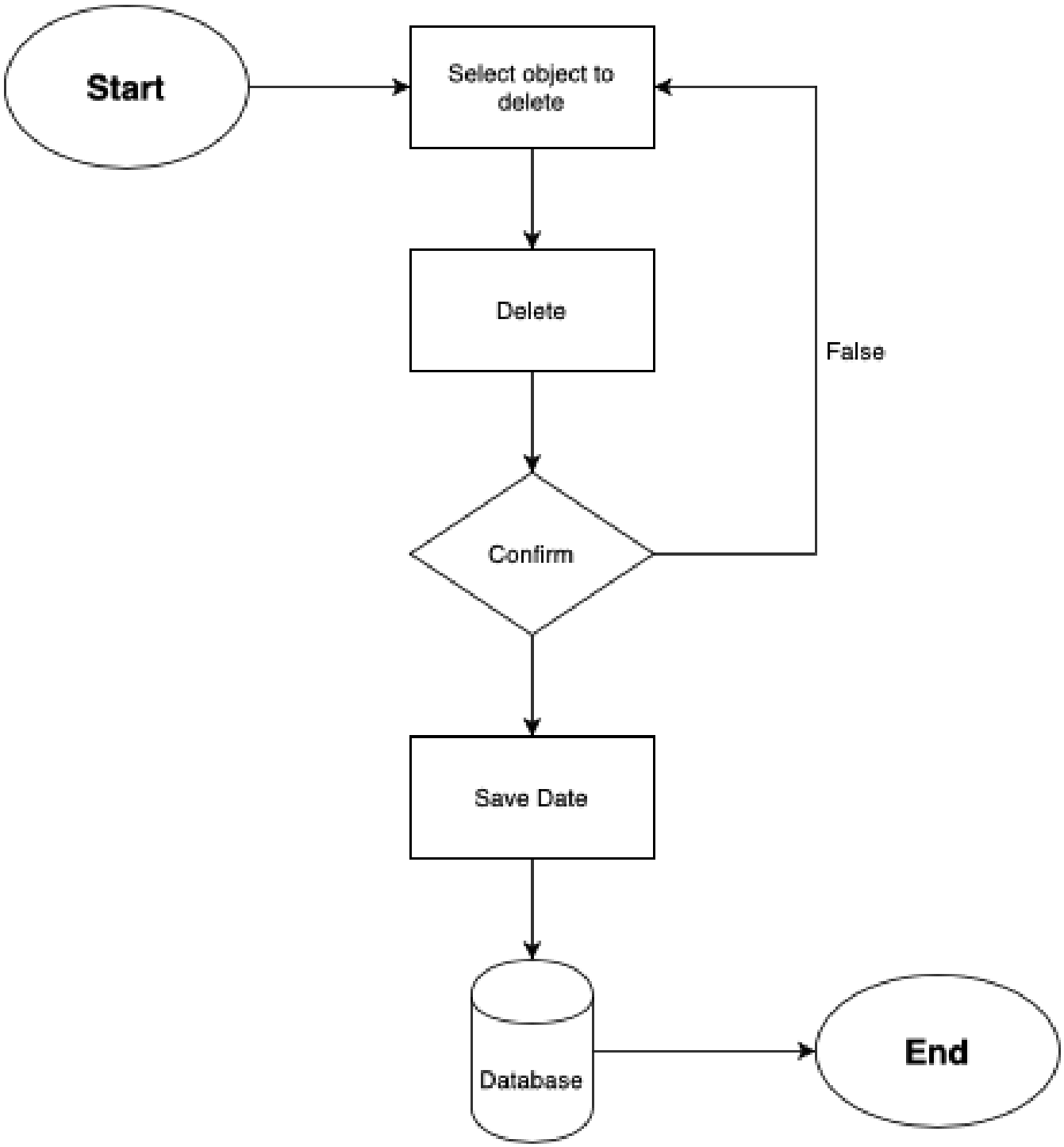
4. Insert Data Function (Admin only)



5. Update Data Function (Admin only)



6. Delete Data Function (Admin only)



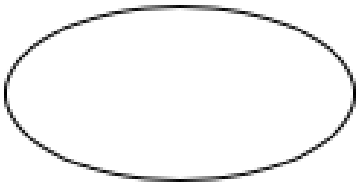
III.Data Flow Diagram

Define: Data Flows Diagram (DFD) describes the information flow in the system. The next step of system analysis is to consider in detail the information necessary for the implementation for functions discussed above and the one necessary for the improvement of the functions. Modelling tool frequently used for this purpose is DFD. DFD will support 4 main activities:

- **Analysis**: DFD is used to determine requirement of users.
- **Design:** DFD is used to map out plan and illustrate solution to analysis and users while designing a new system.
- **Communication:** One of the strength of DFD is its simplicity and ease to understand to analysts and users.
- **Document:** DFD is used to provide special description of requirement and system design. DFD provide an overview of key functional components of the system but it does not provide any detail on these components. We have to use other tools like database dictionary, process specification to get an idea of which information will be exchanged and how.

The main components of Context Diagram:

The external factors: External factors can be a person, a group of persons or an organization that are sources of information for the systems and are where system products are transferred to.



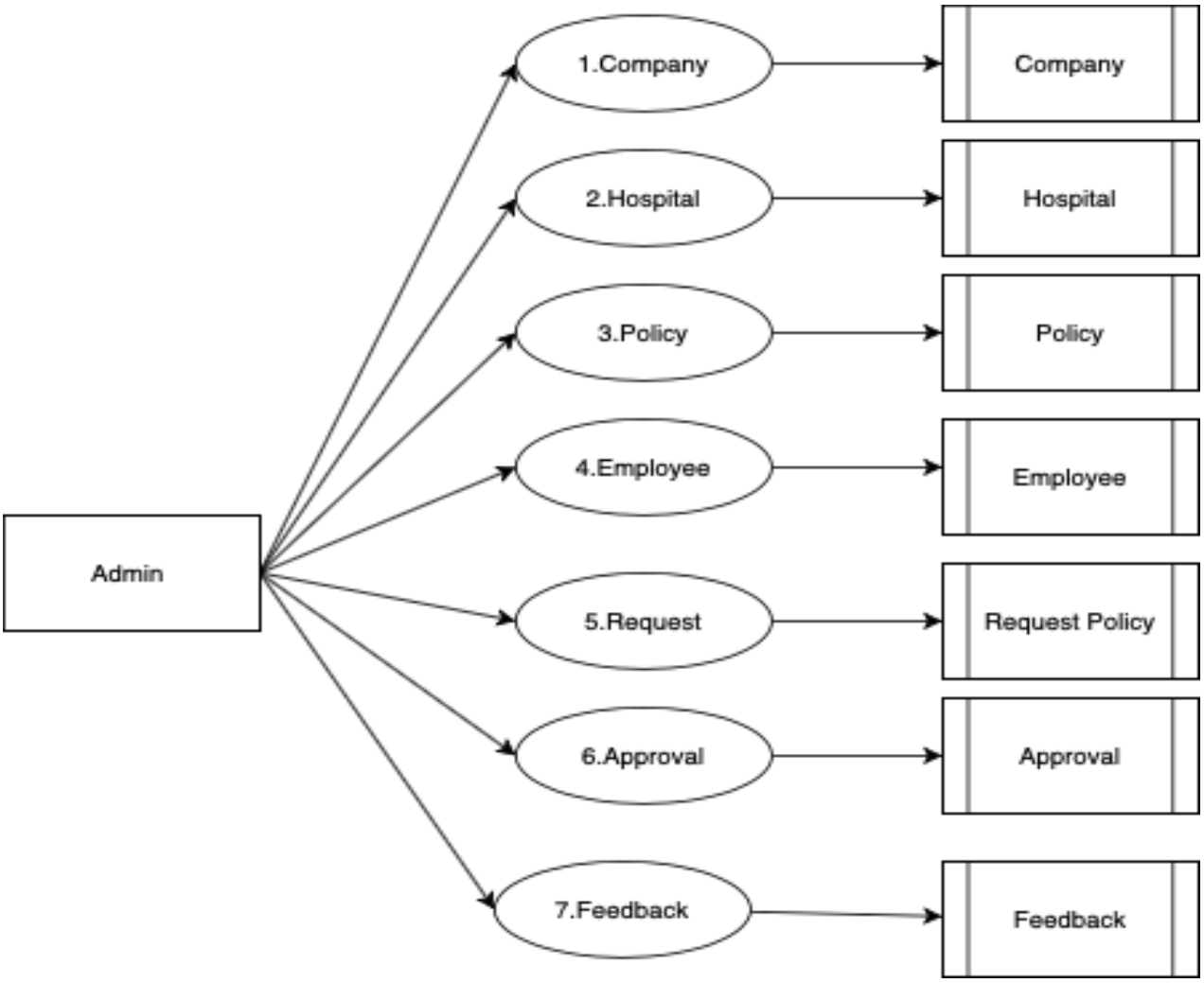
The process: Shows the common function of system

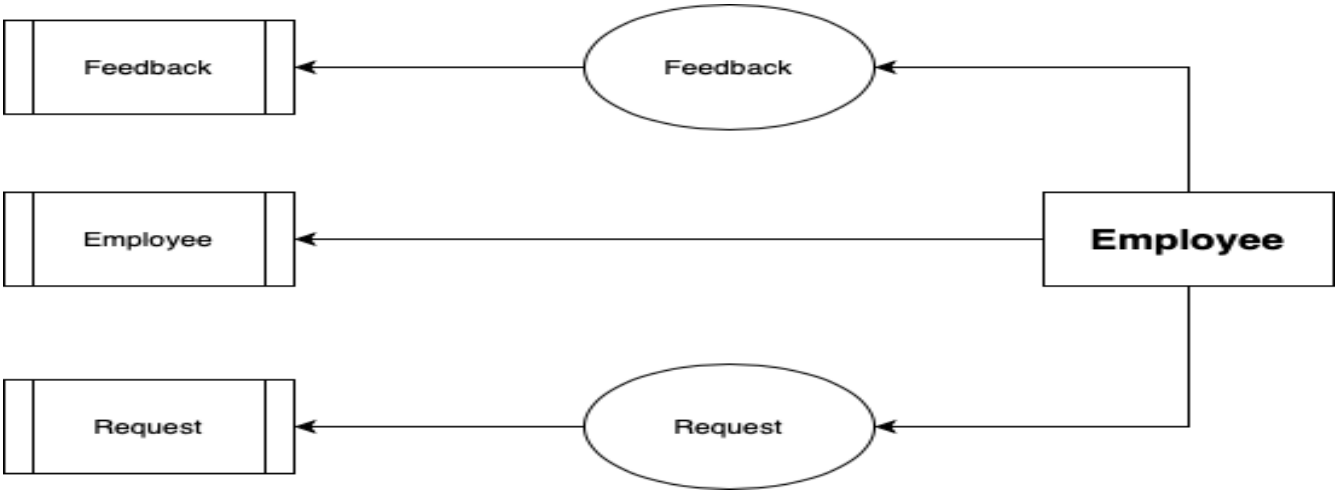
The data flow: Describe the movement of information from one part of the system to another.

The data store: The Data Store is used to model a collection of data packets at rest. A store is represented graphically by two parallel lines. The name of a Data Store that identifies the store is the plural of the name of the packets that are carried by flows into and out of the Data Store.

1. Context Diagram:

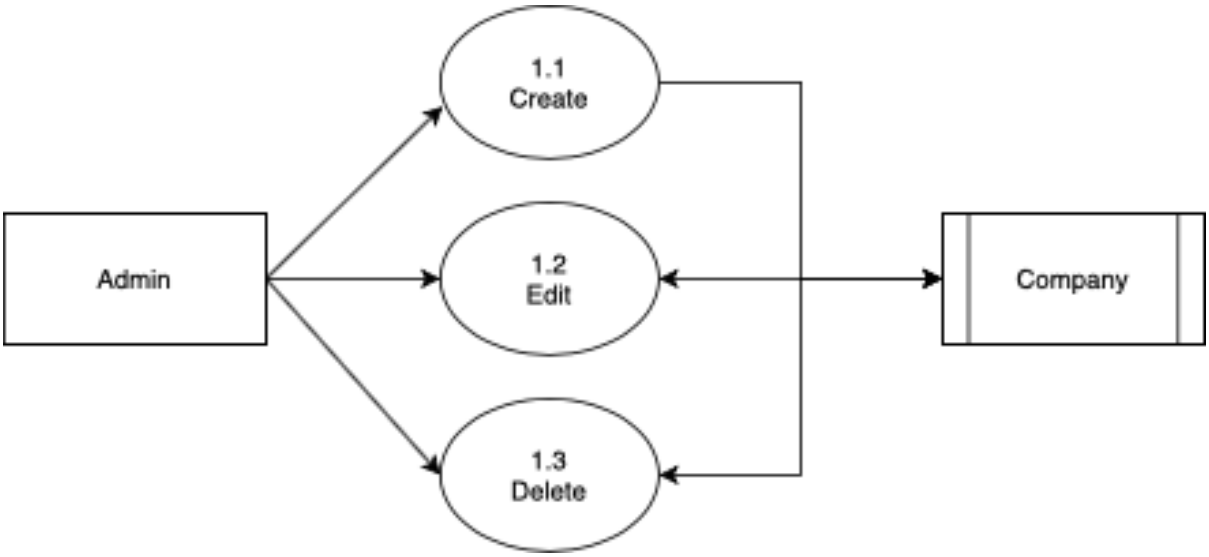
2. Level 0 DFD


1.Company
Company
2.Hospital
Hospital
3.Policy
Policy
4.Employee
Employee
Admin
5.Request
Request Policy
6.Approval
Approval
7.Feedback
Feedback

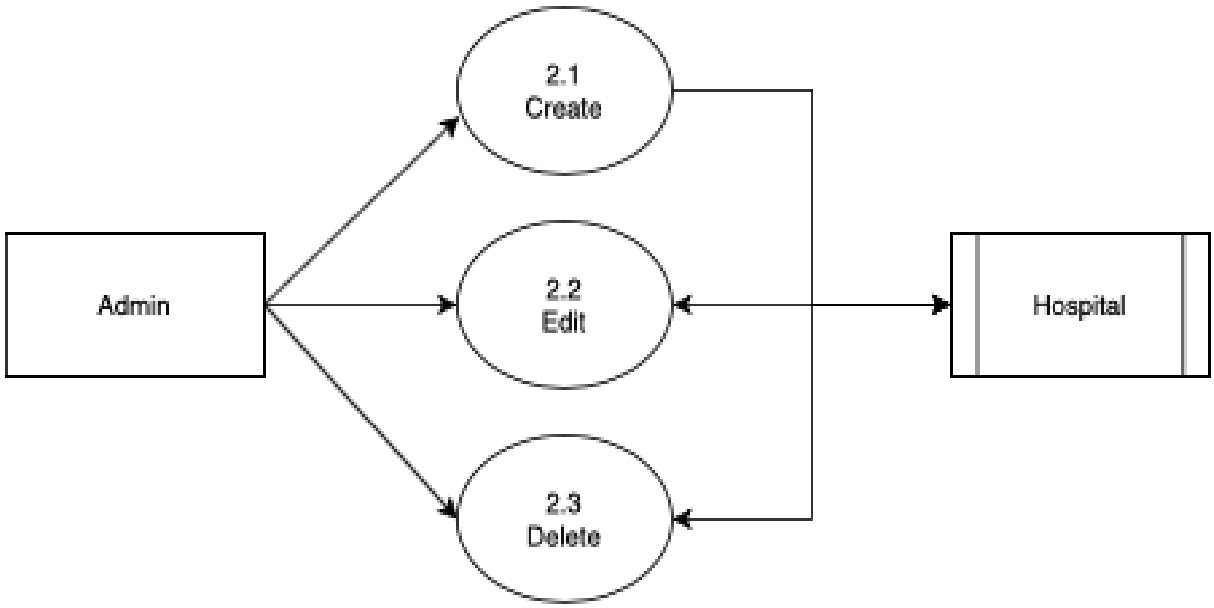

Feedback
Feedback
Employee
Employee
Request
Request

3. Level 1 DFD

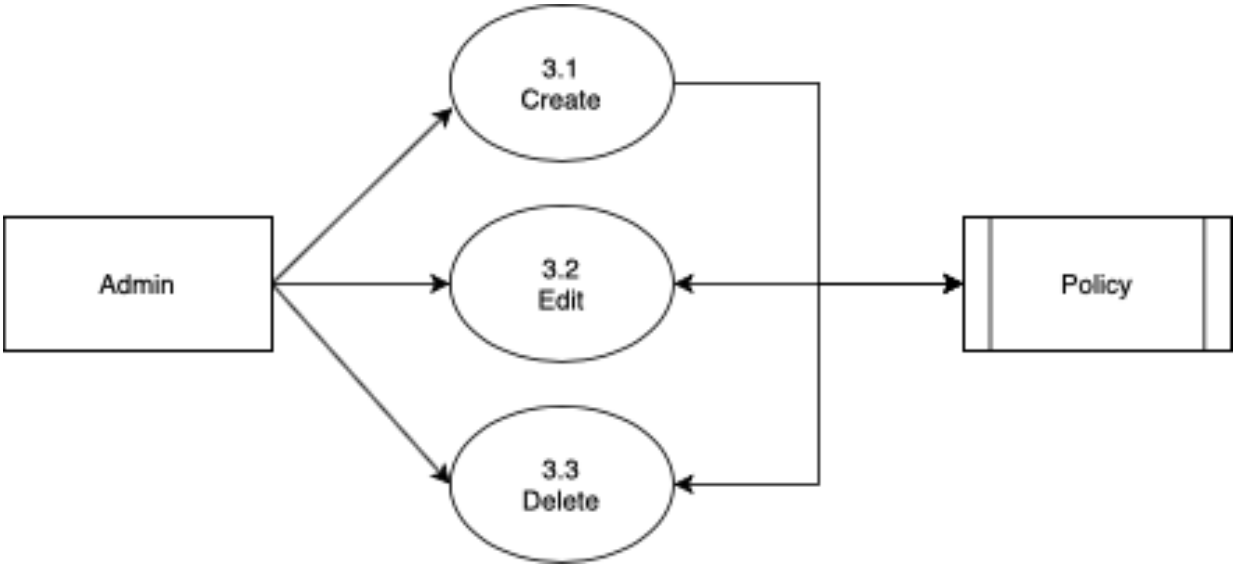
3.1 Company Management



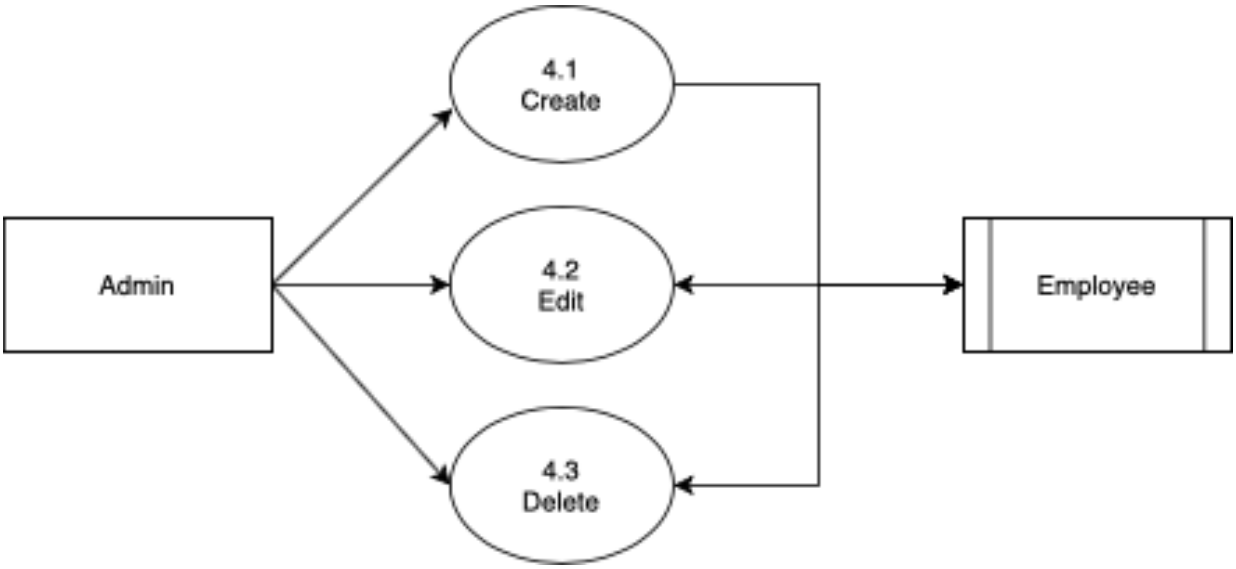
3.2 Hospital Management



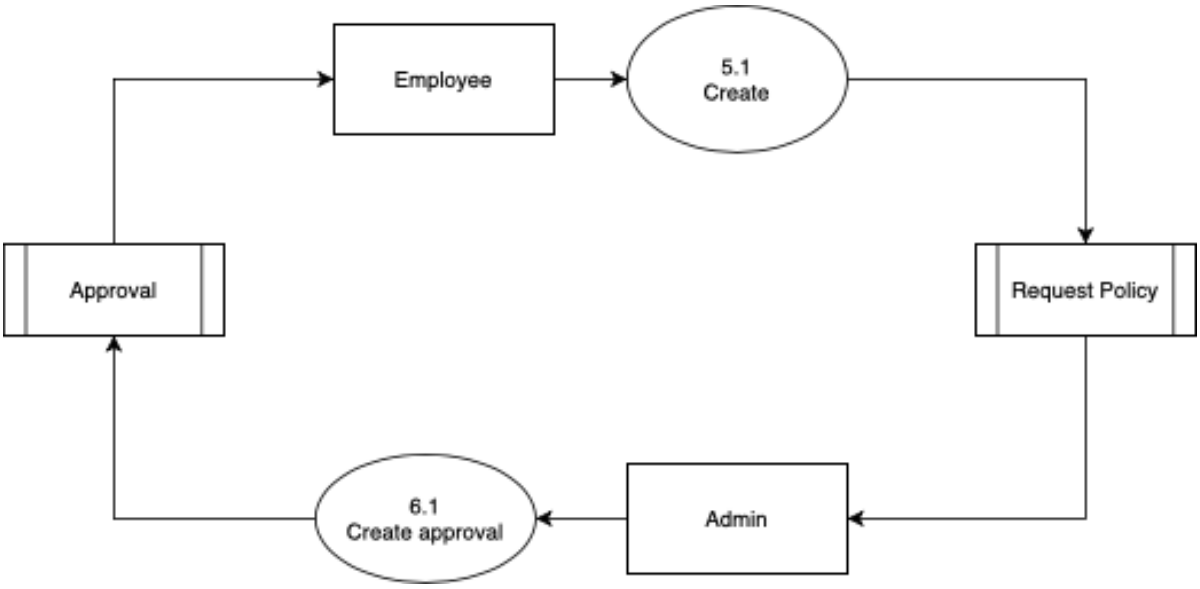
3.3 Policy Management



3.4 Employee Management



3.5 Request policy and Approval request Management



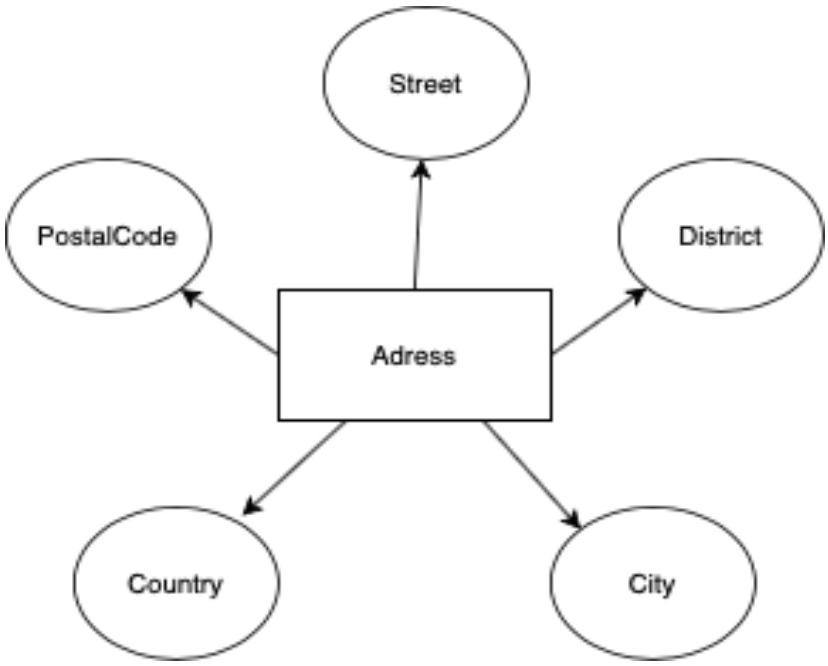
3.6 Feedback Management

Them feedback admin , reply, delete

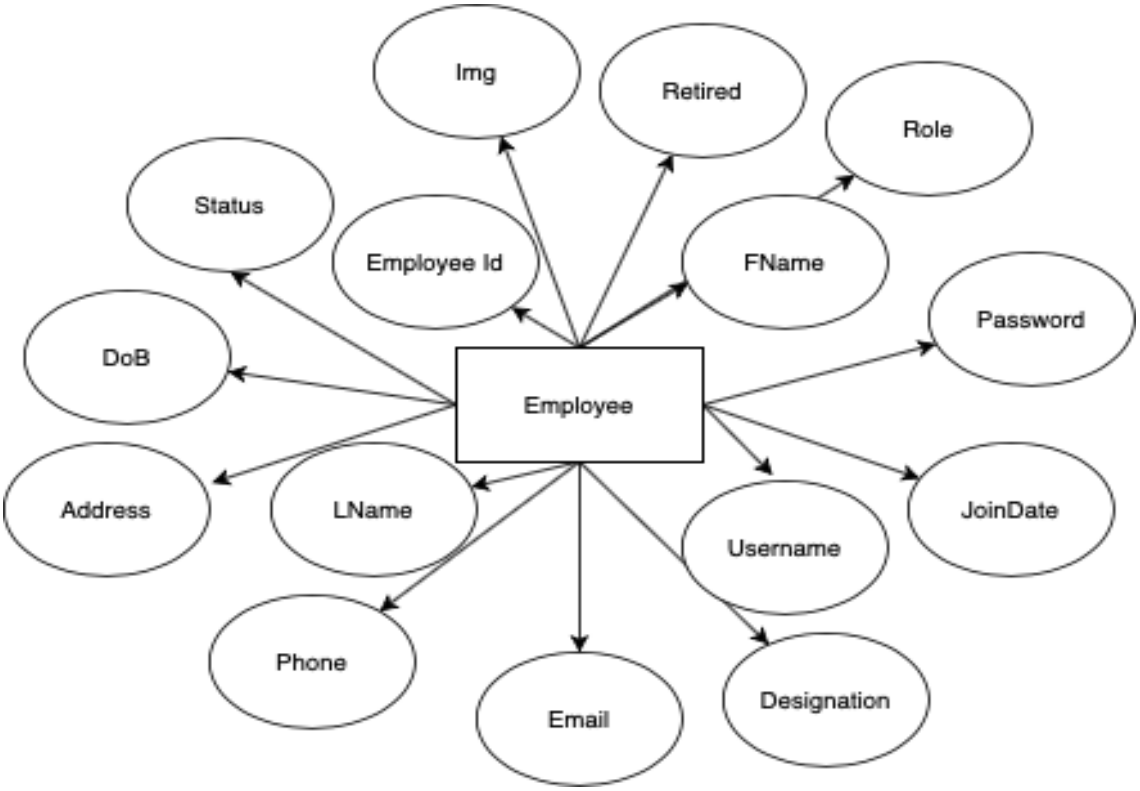
IV.Entity–Relationship Design

1. Entities and Properties

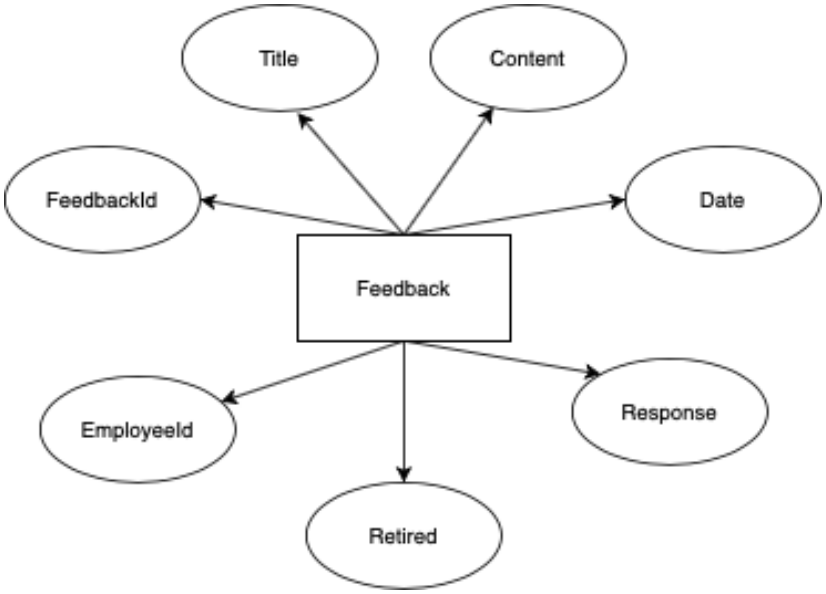
1.1 Adress Entity & Properties



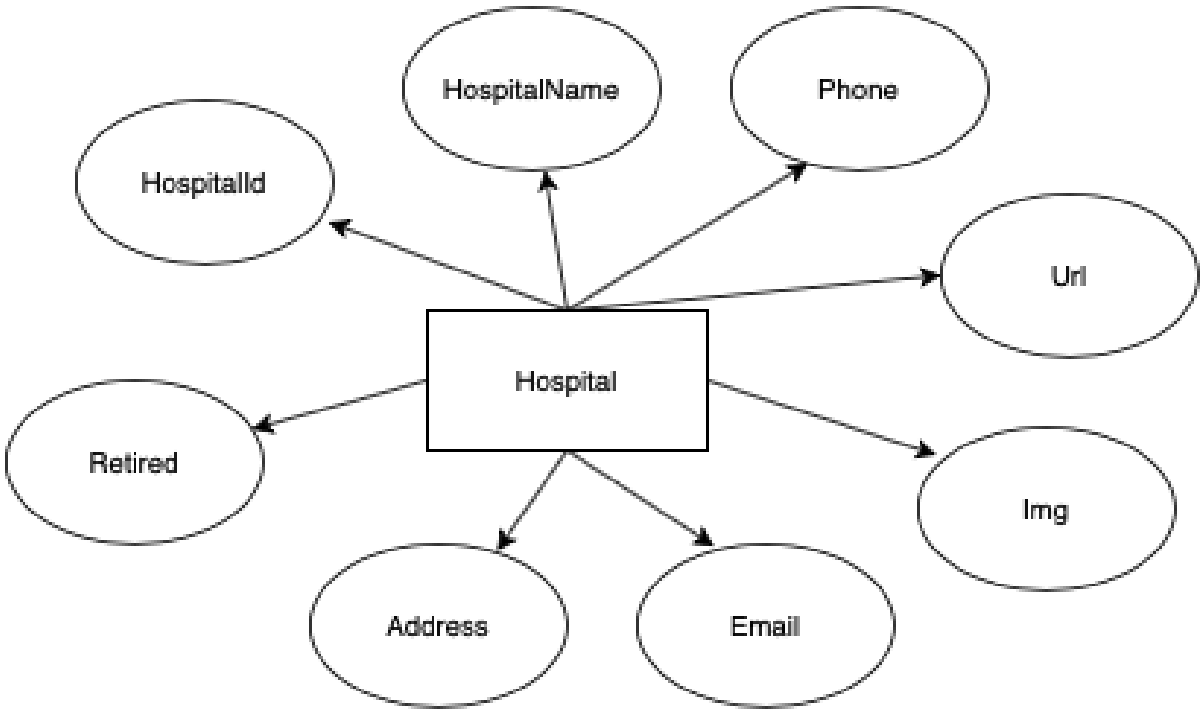
1.2 Employee Information Entity & Properties



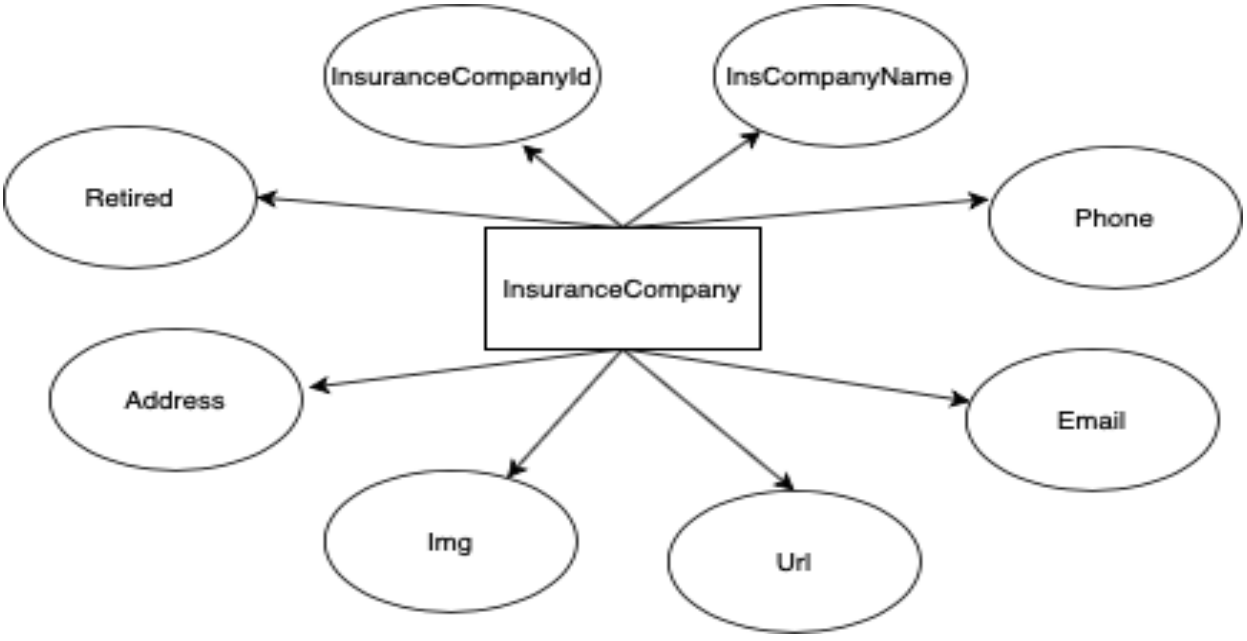
1.3 Feedback Entity & Properties



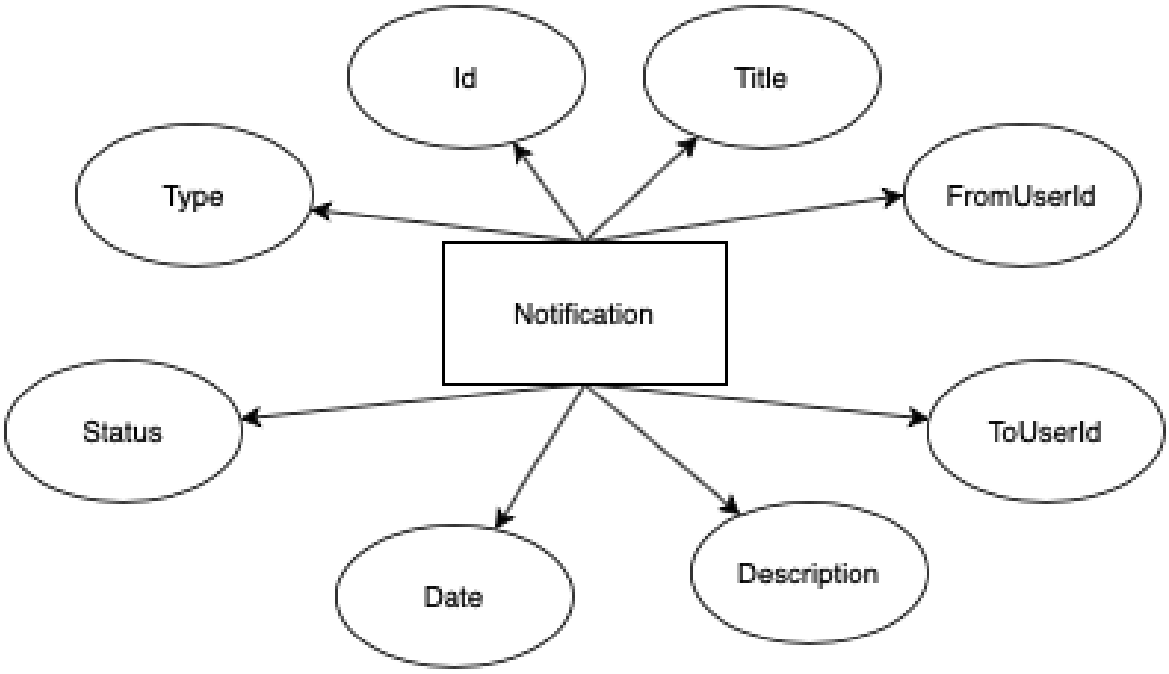
1.4 Hospital Entity & Properties



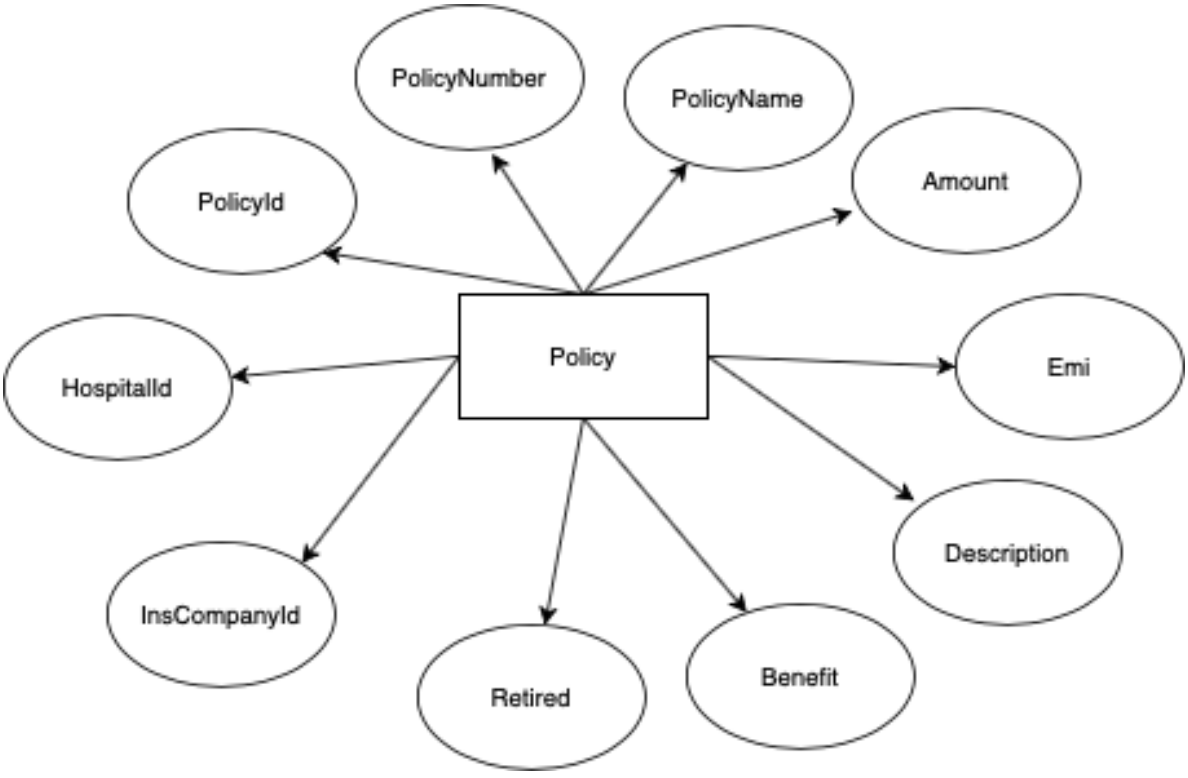
1.5 InsuranceCompany Entity & Properties



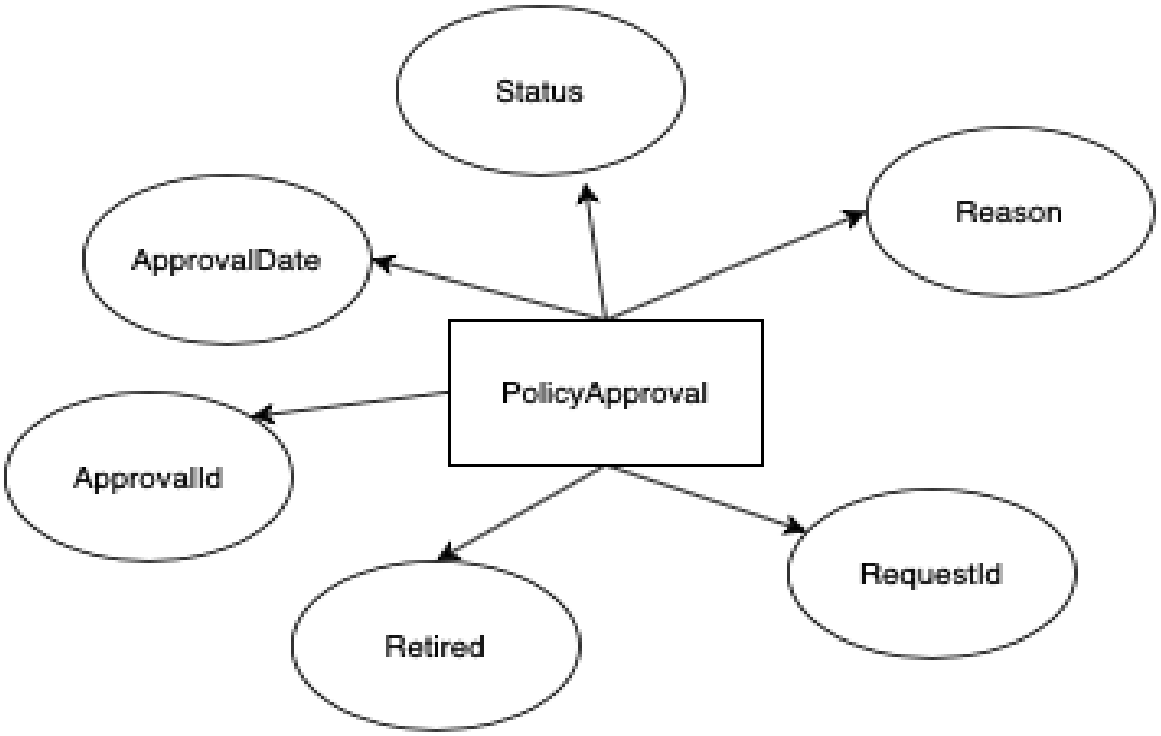
1.6 Notification Entity & Properties



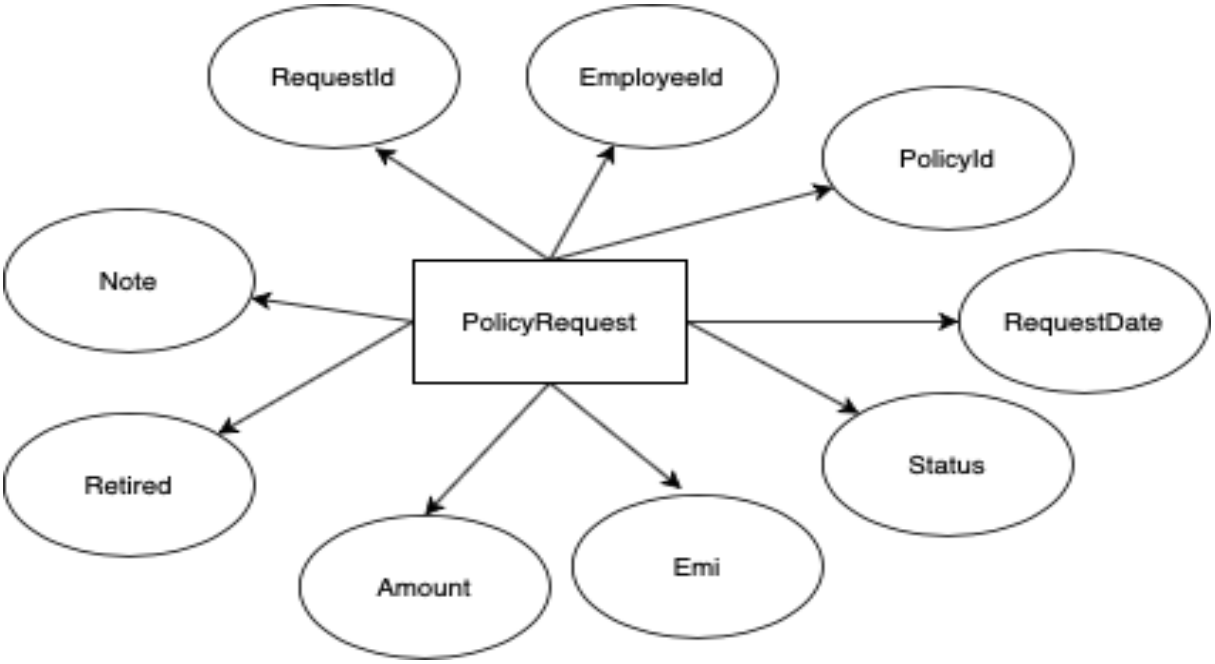
1.7 Policy Entity & Properties



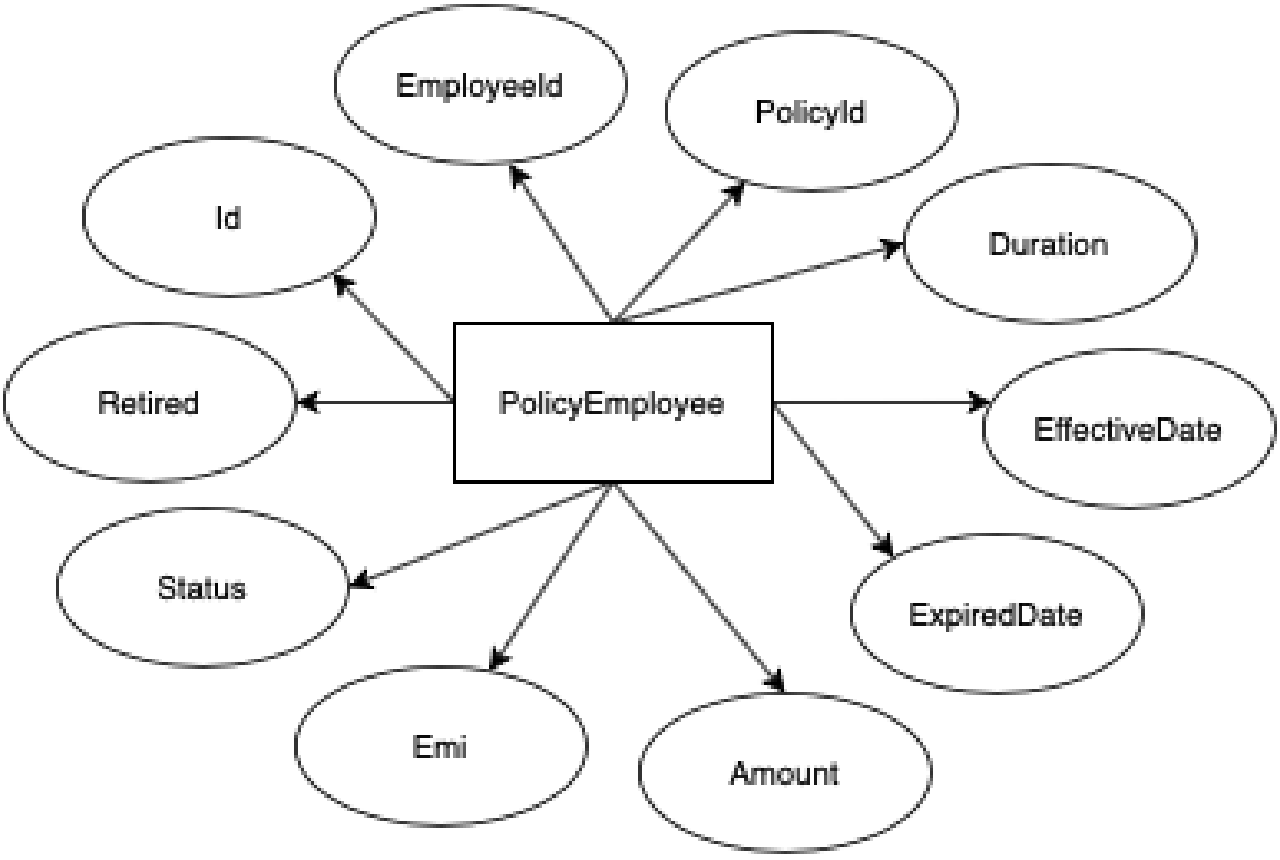
1.8 Policy Approval Details Entity & Properties



1.9 Policy Request Detail Entity & Properties



1.10 Policy Employee



Task sheet review 2

Project Ref. No: 4	Project Title: Railway Reservation Manage System	Date of Preparation of Activity Plan			
No.	Task	Actual Start Date	Actual Days	Team Member Name	Status
01	Architecture & Design of the Project	JAN 8, 2021	7	All Members	Completed
02	Algorithms - Data Flowchart			Pham Xuan Bach	Completed
03	Data Flow Diagram			Luu Trong Phat	Completed
04				Đỗ Trí Thịnh	Failed
05	ERD			All Members	Completed

	Prepare By: Group 3	**Approved By: Faculty**
Date: Dec 28, 2020	Team Leader Nguyen Vu Hoang Hoa	Mr. Ngo Phuoc Nguyen