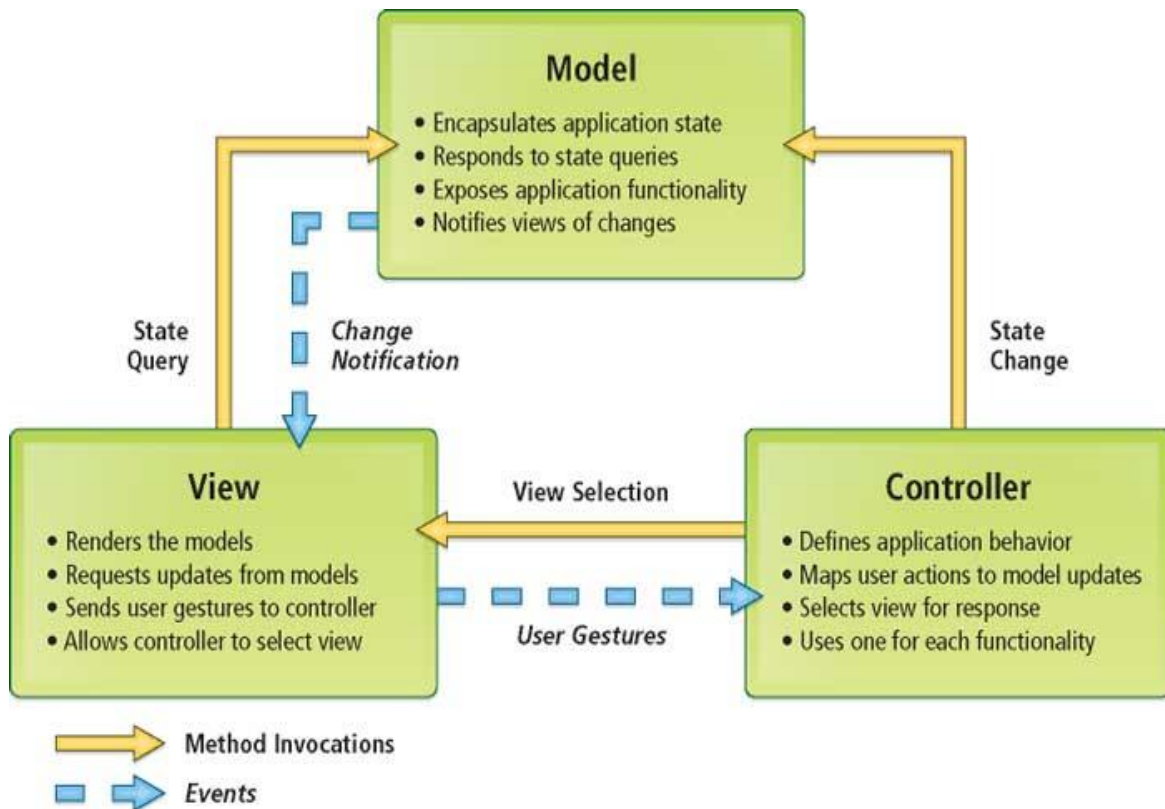
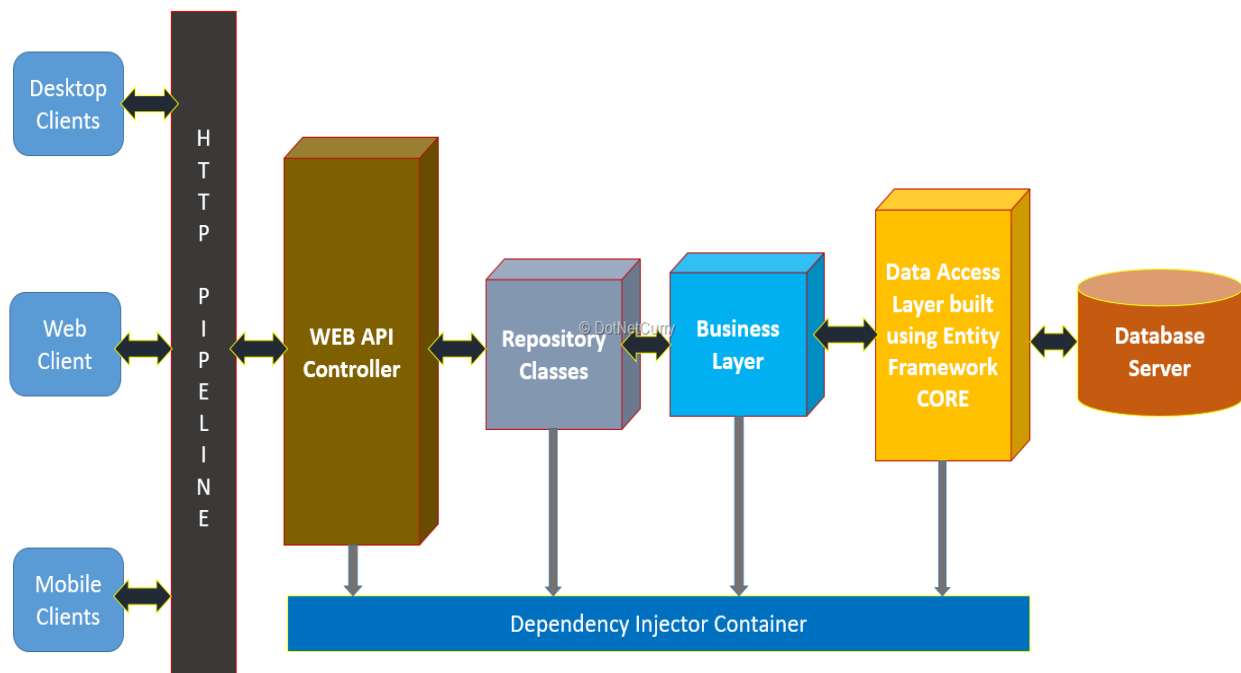


REVIEW II

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

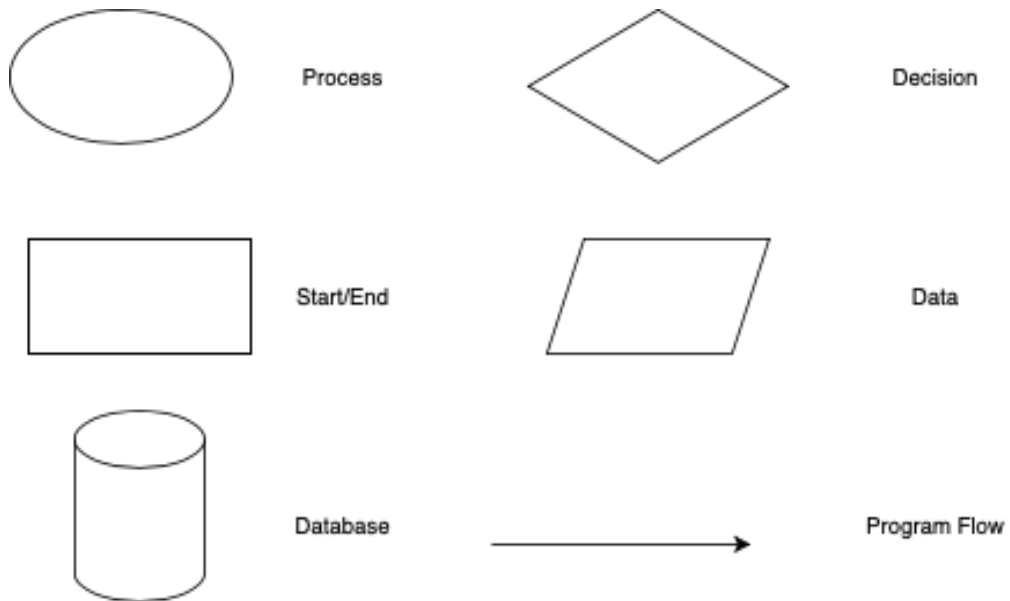
3. Data Access Tier:

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 .

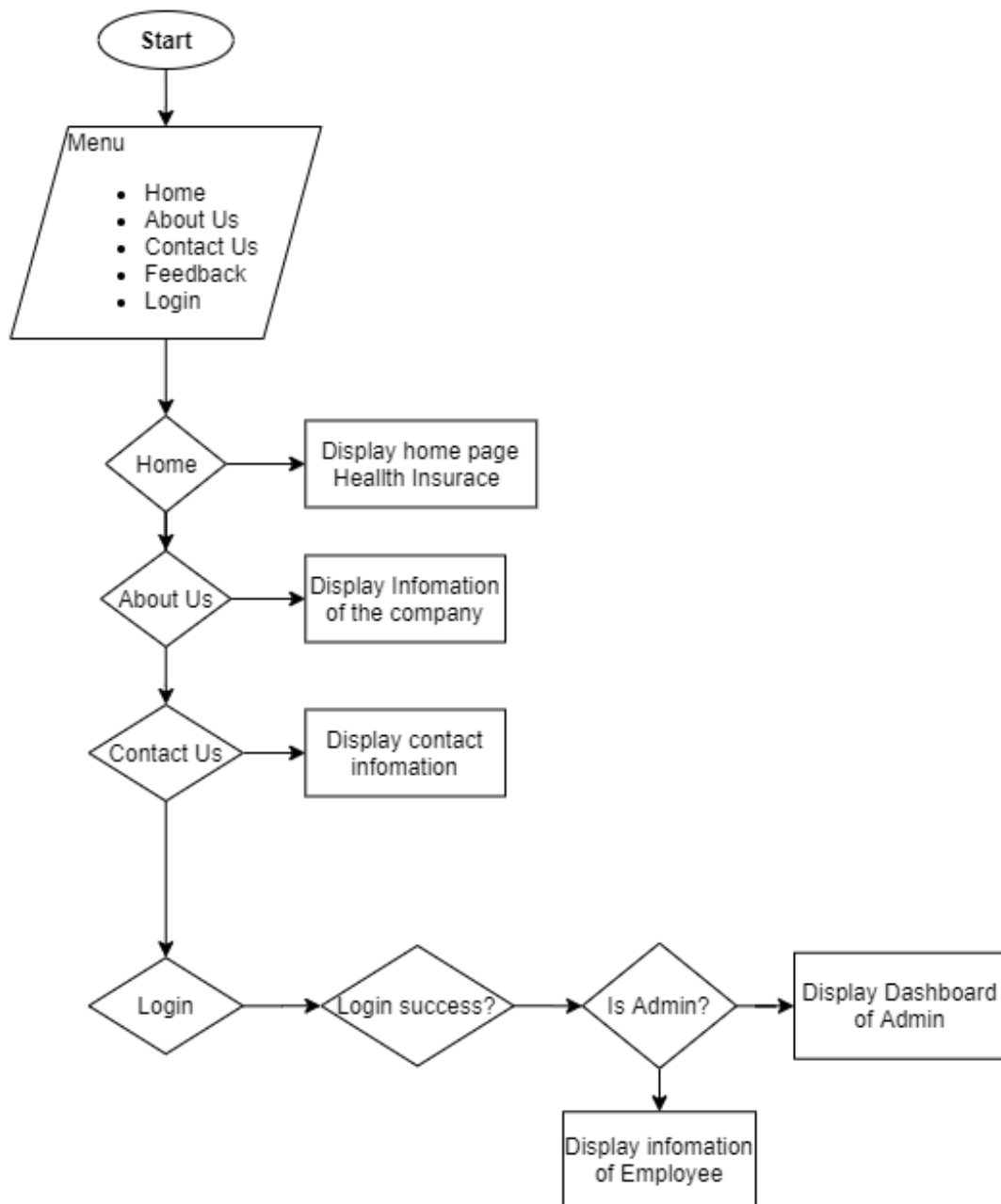
Technology: SQL Server, LINQ

II. Algorithms - Data Flowchart

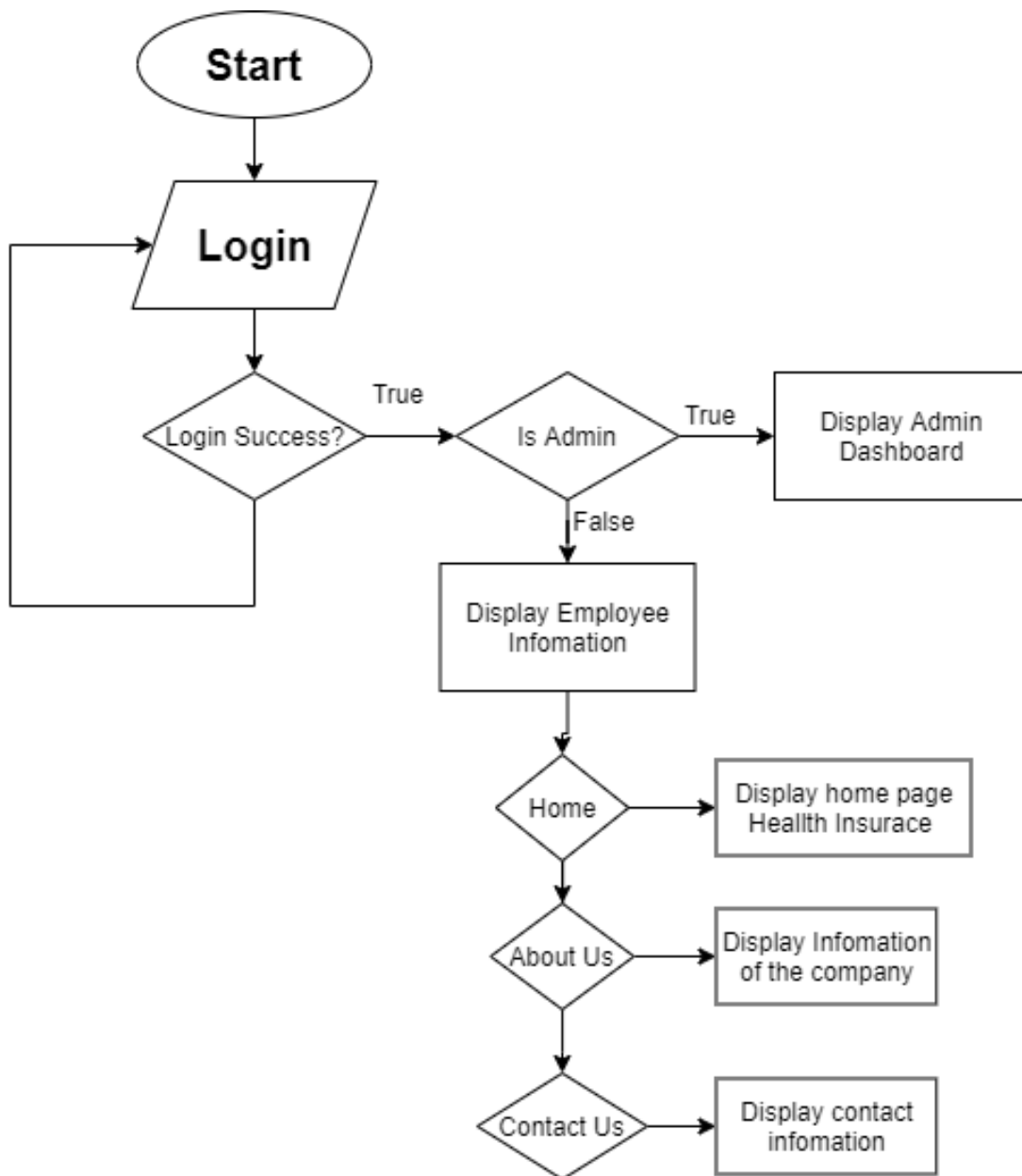
Symbol generates:



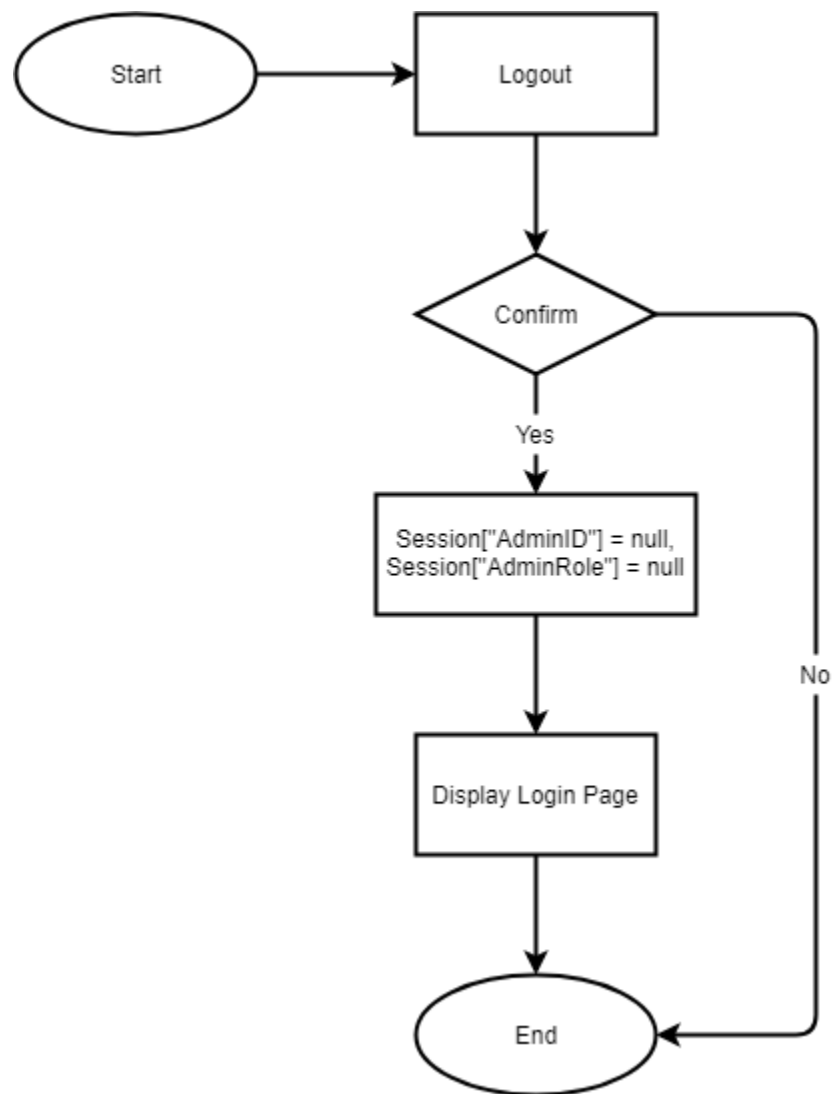
1. Main data flow for guest



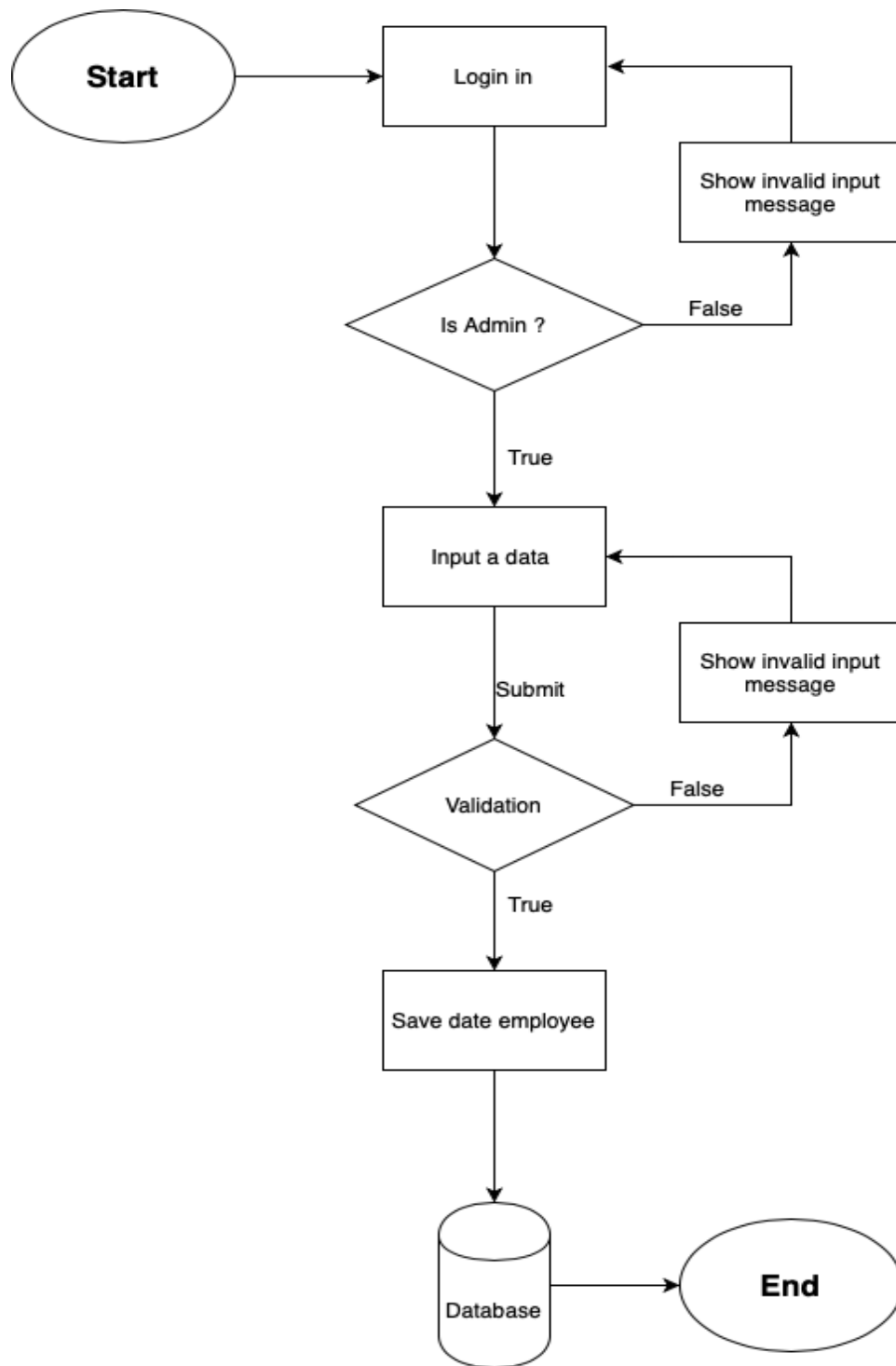
2. Login Function



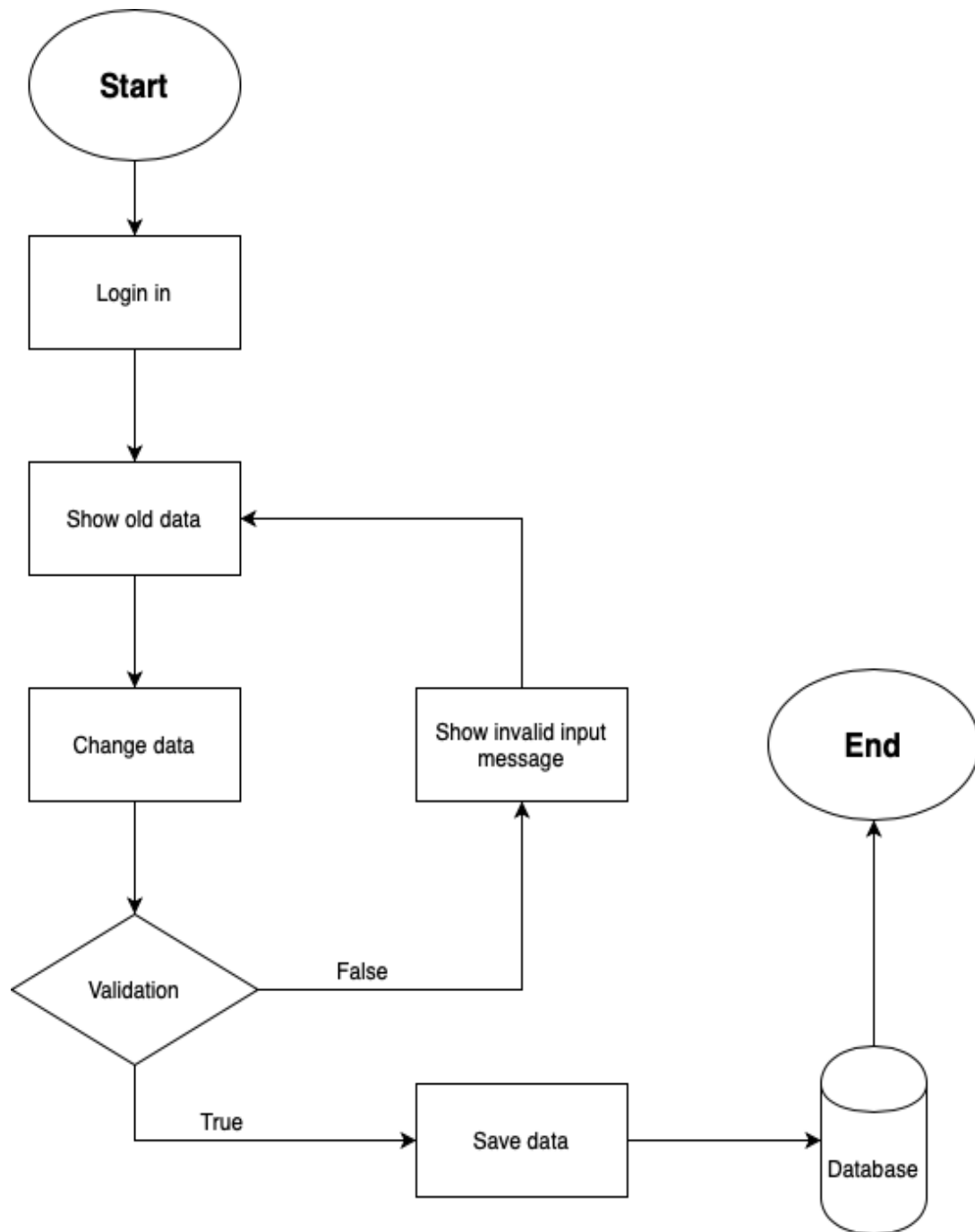
3. Logout Function



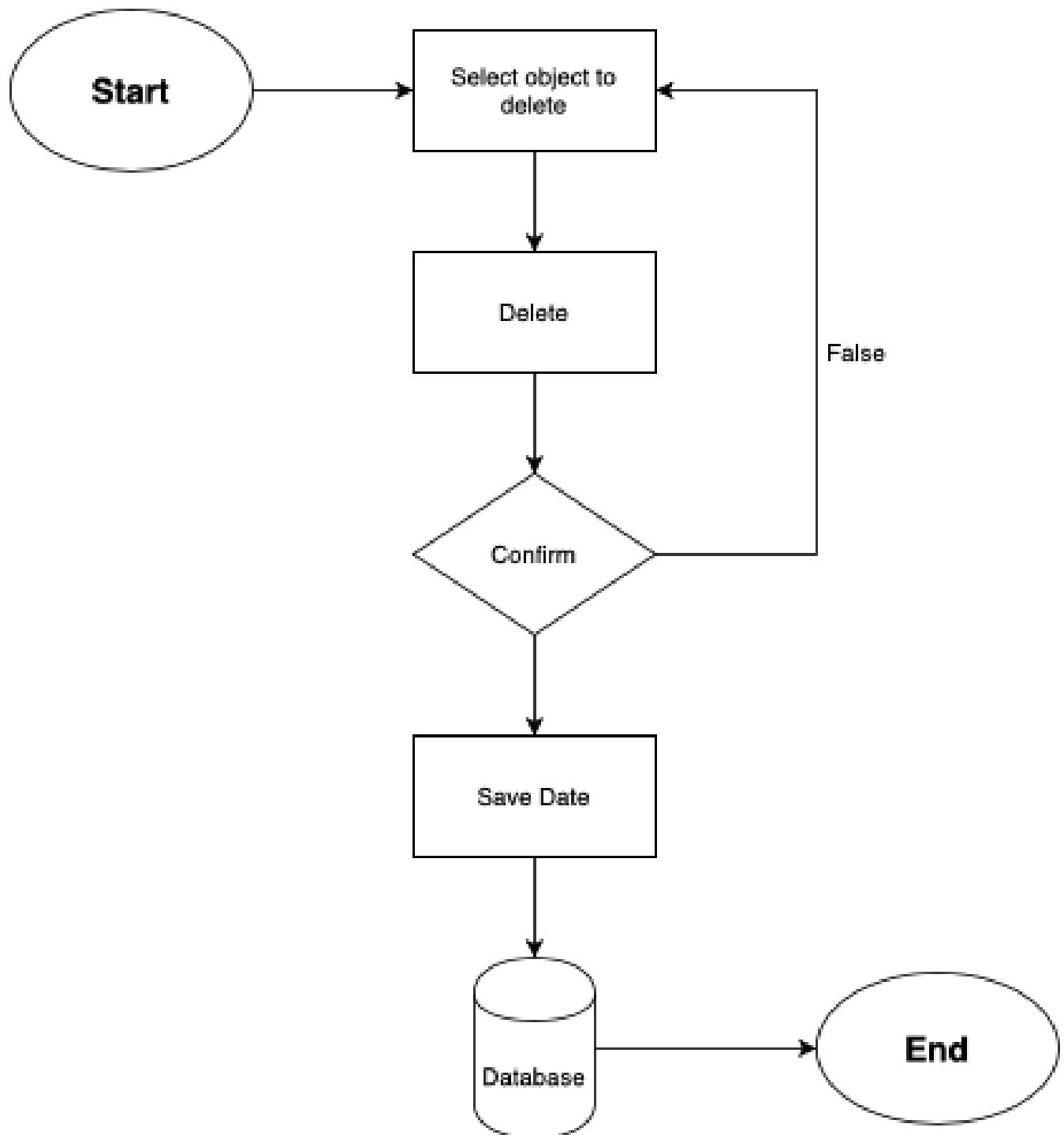
4. Insert Data Function (Admin only)



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:



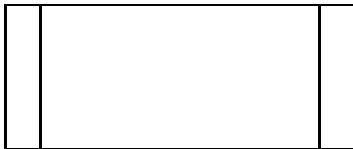
The external factors: External factors can be a person, a group of persons or an organization that are sources of information for the systems and are where system products are transferred to.



The process: Shows the common function of system



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

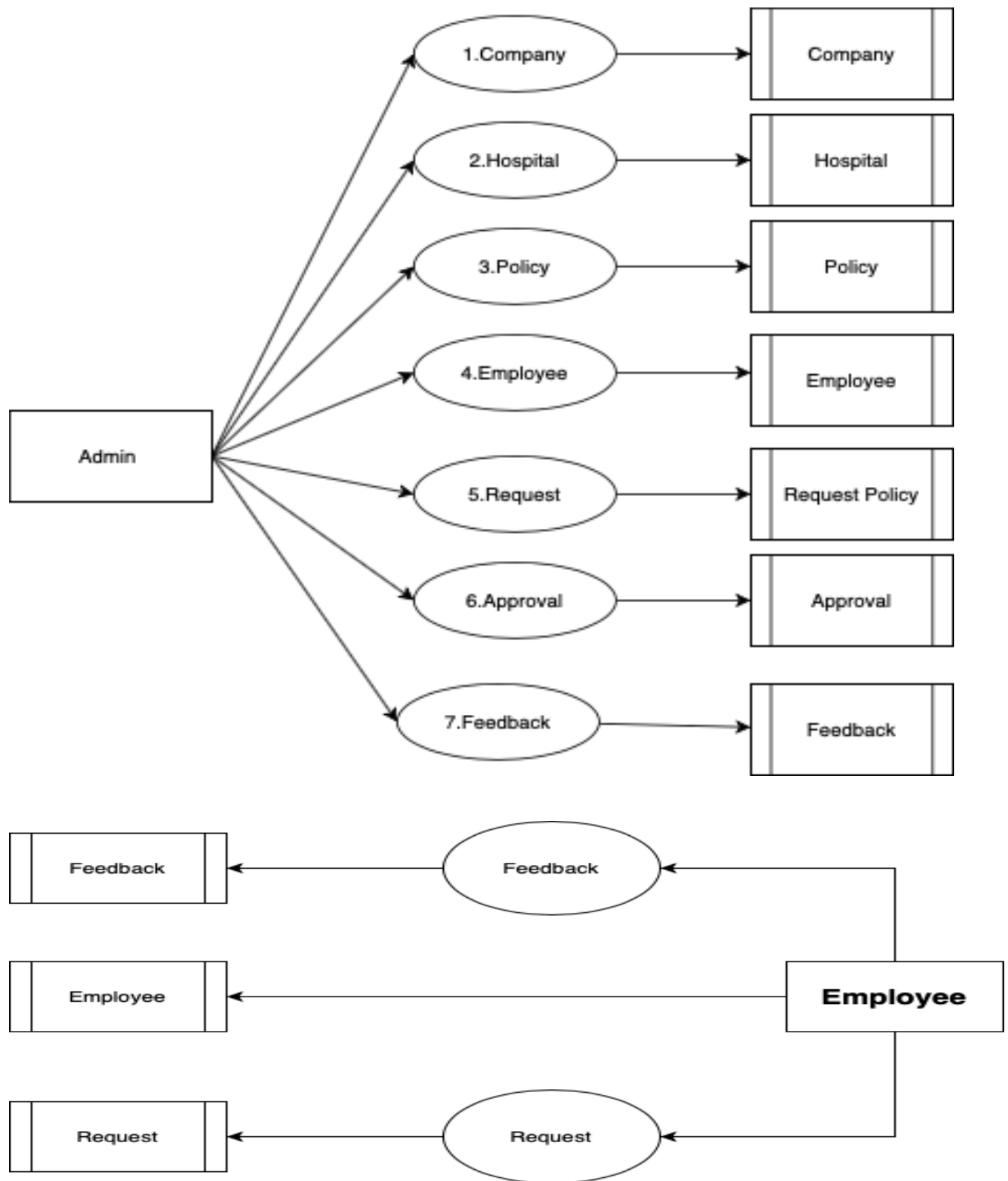


The data store: The Data Store is used to model a collection of data packets at rest. A store is represented graphically by two parallel lines. The name of a Data Store that identifies the store is the plural of the name of the packets that are carried by flows into and out of the Data Store.

1. Context Diagram:

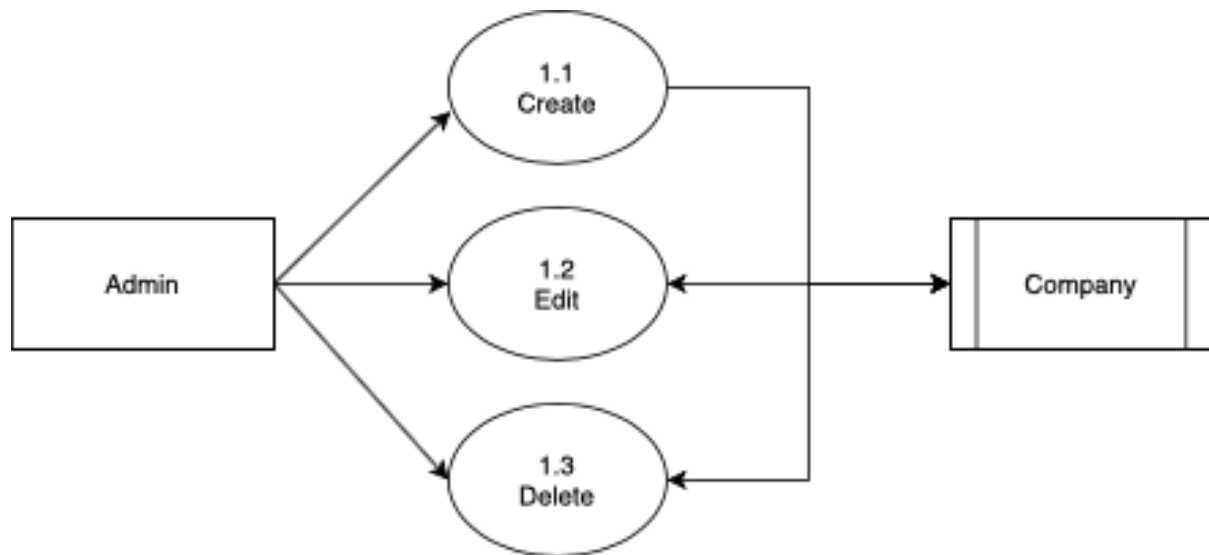


2. Level 0 DFD

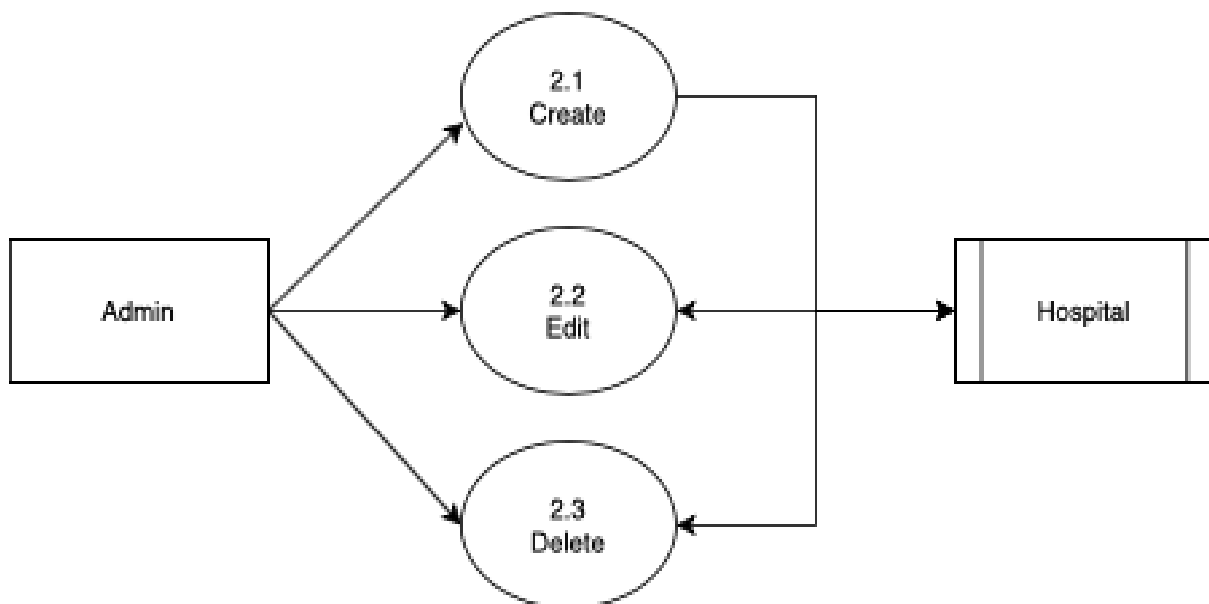


3. Level 1 DFD

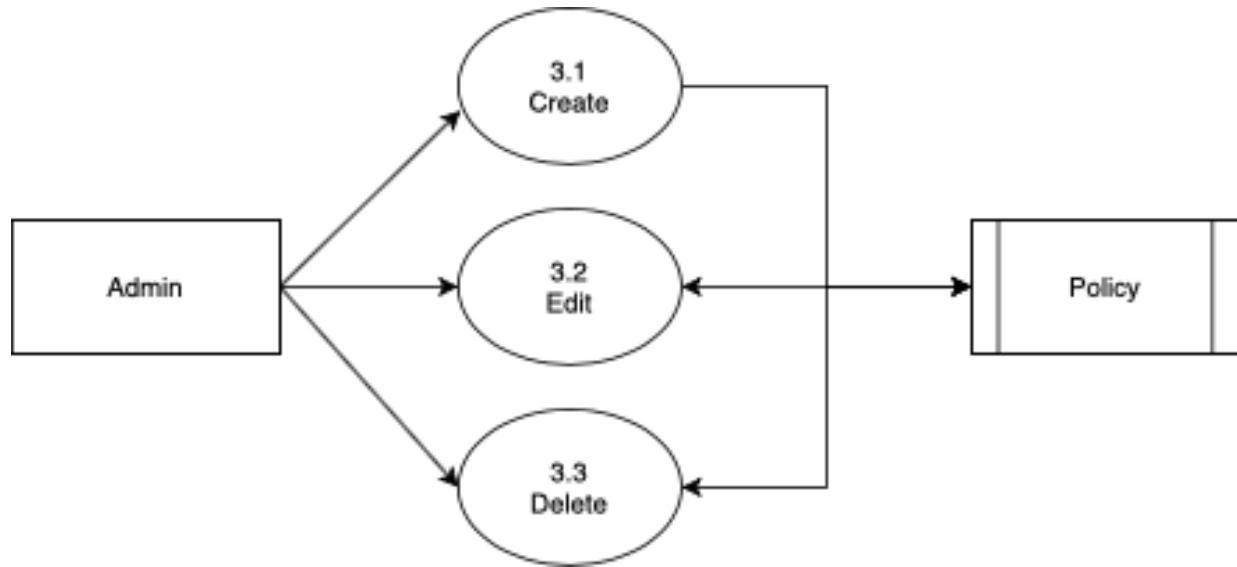
3.1 Company Management



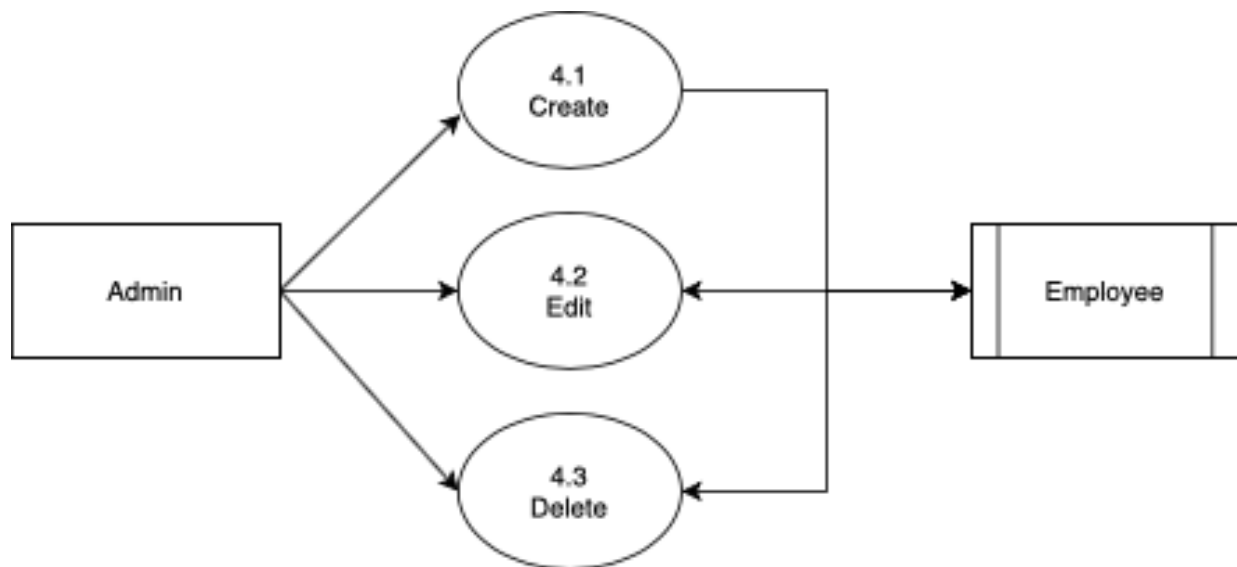
3.2 Hospital Management



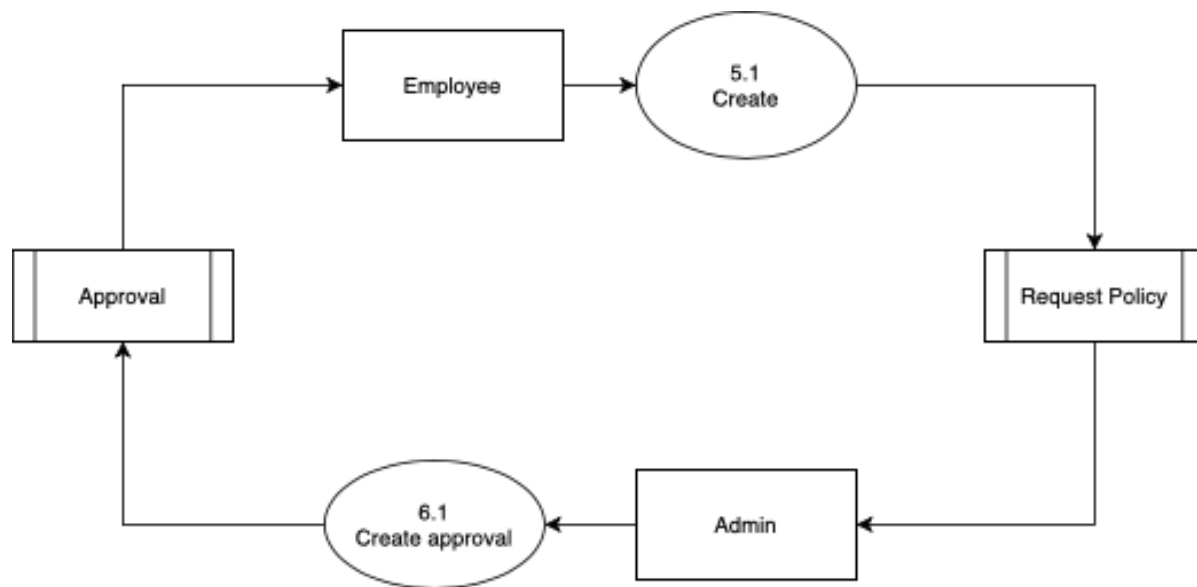
3.3 Policy Management



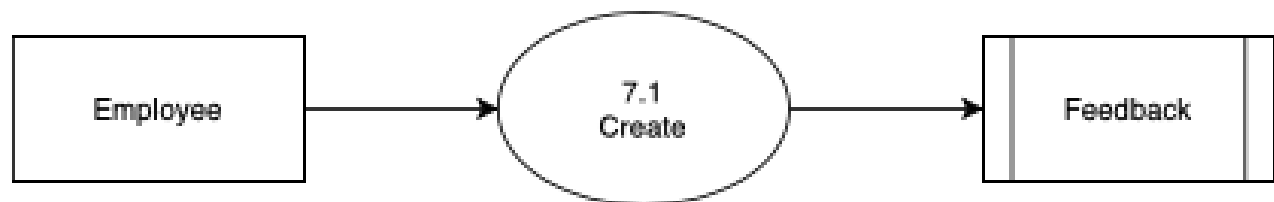
3.4 Employee Management



3.5 Request policy and Approval request Management



3.6 Feedback Management

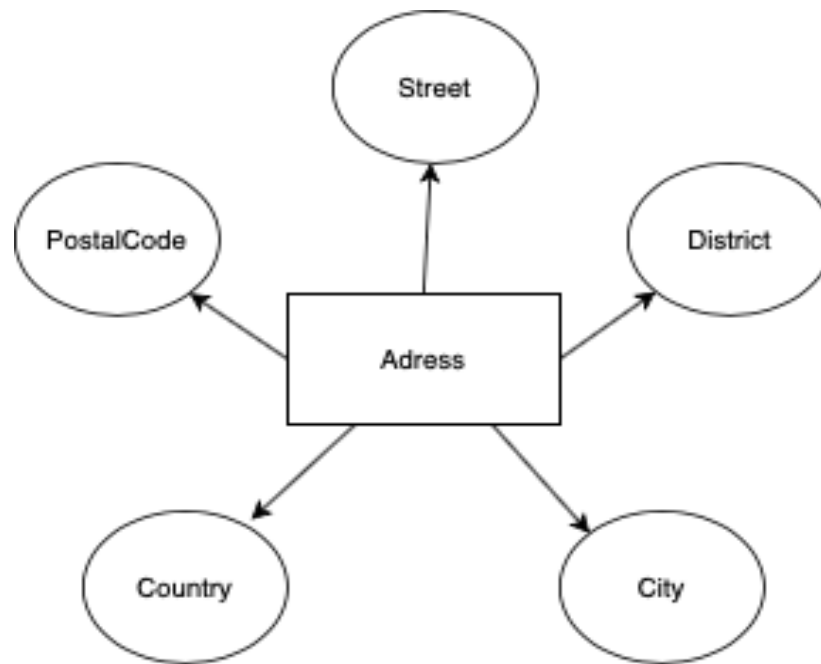


Them feedback admin , reply, delete

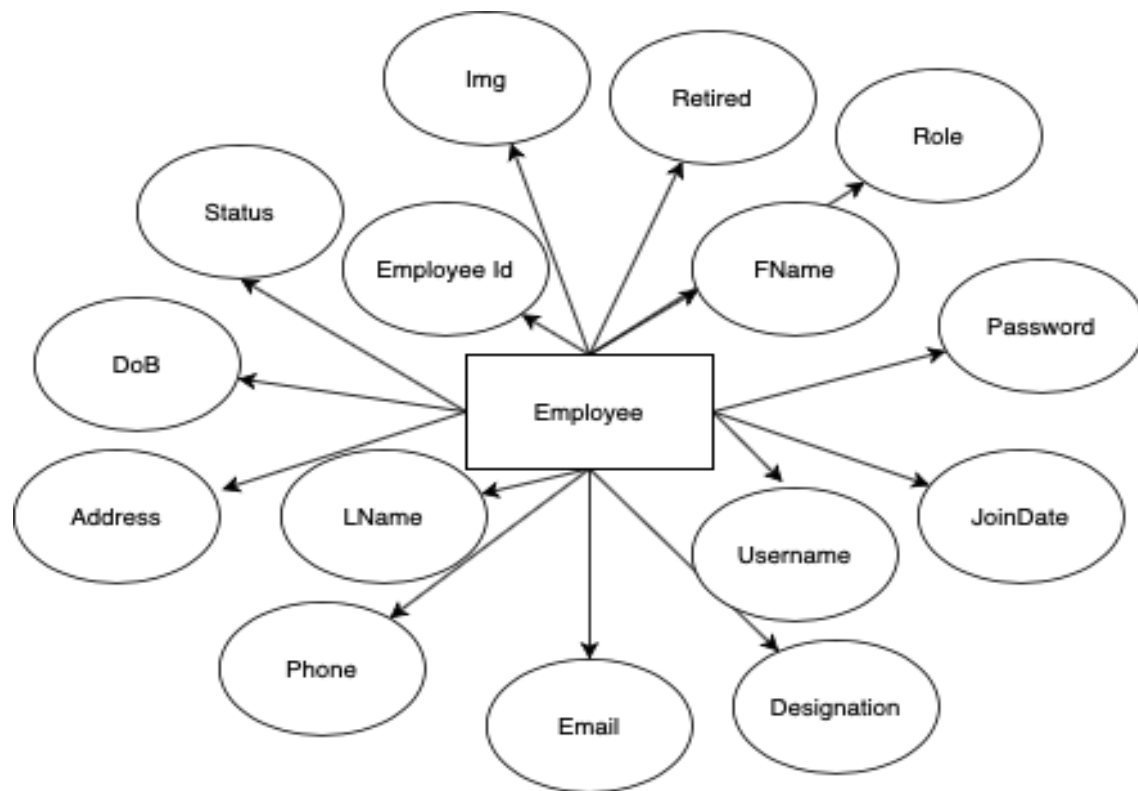
IV.Entity–Relationship Design

1. Entities and Properties

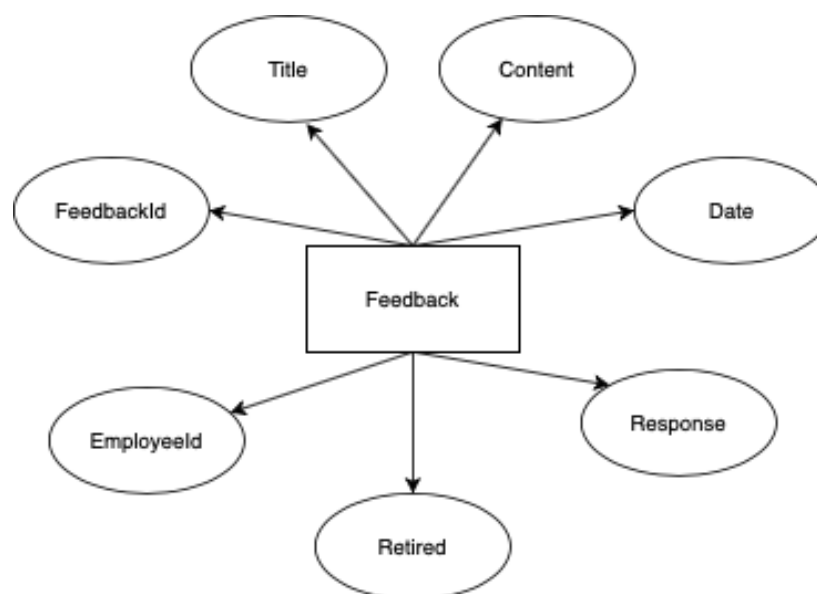
1.1 Adress Entity & Properties



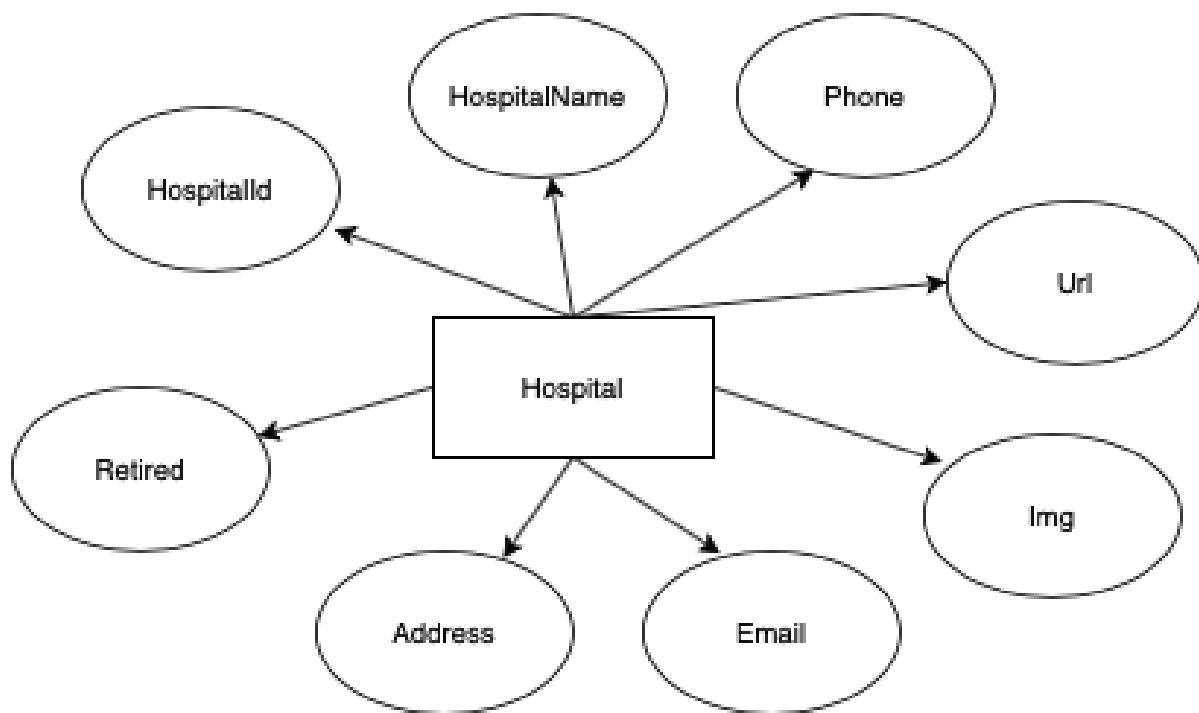
1.2 Employee Information Entity & Properties



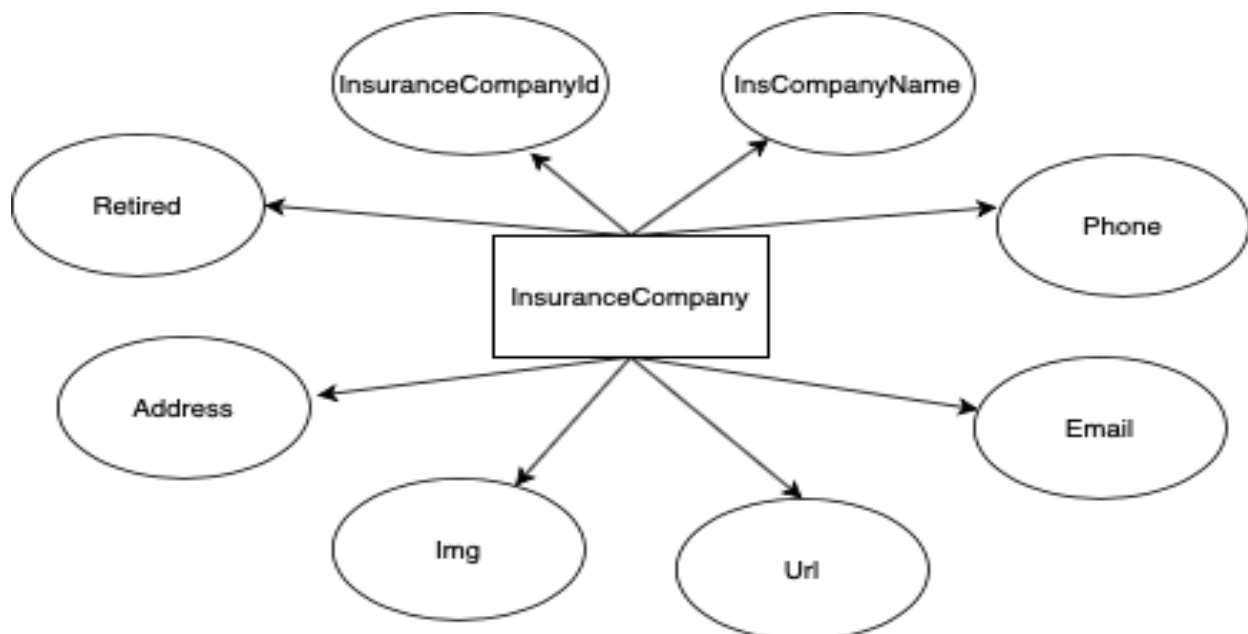
1.3 Feedback Entity & Properties



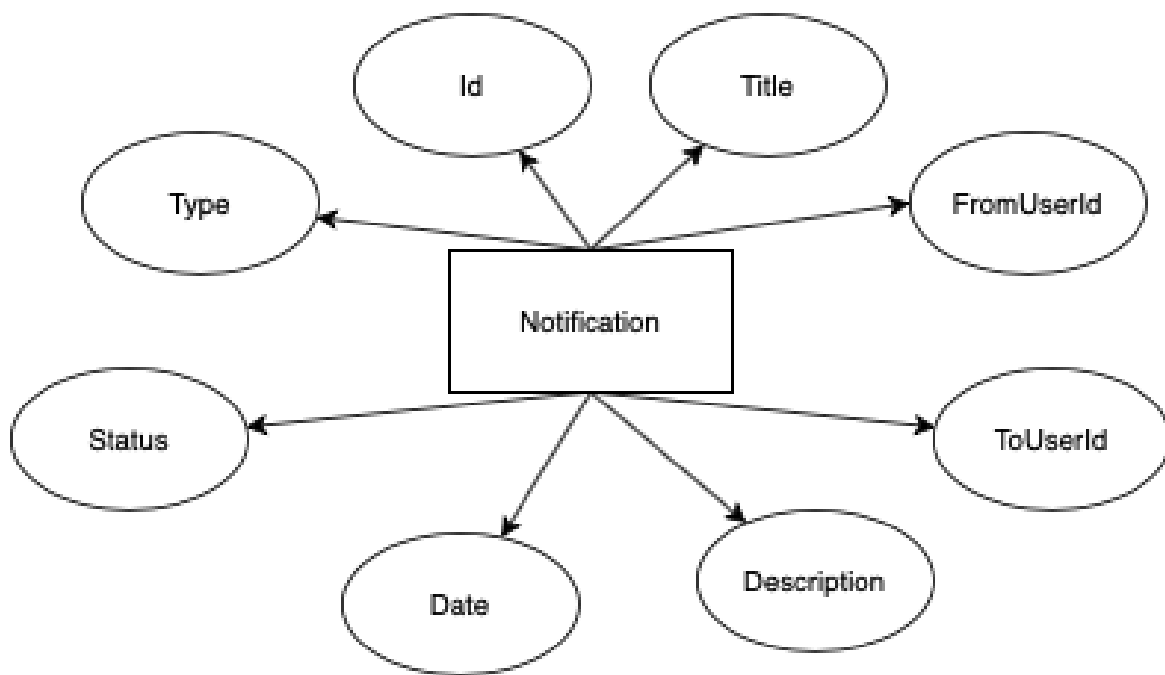
1.4 Hospital Entity & Properties



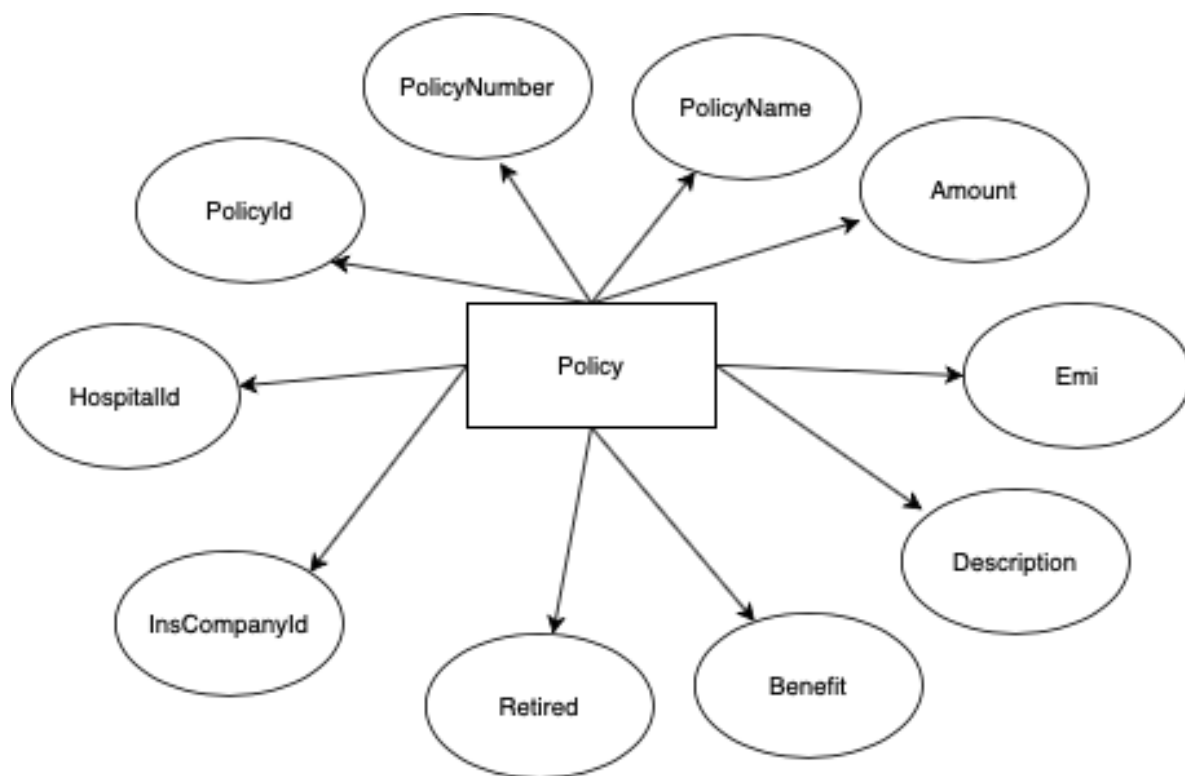
1.5 InsuranceCompany Entity & Properties



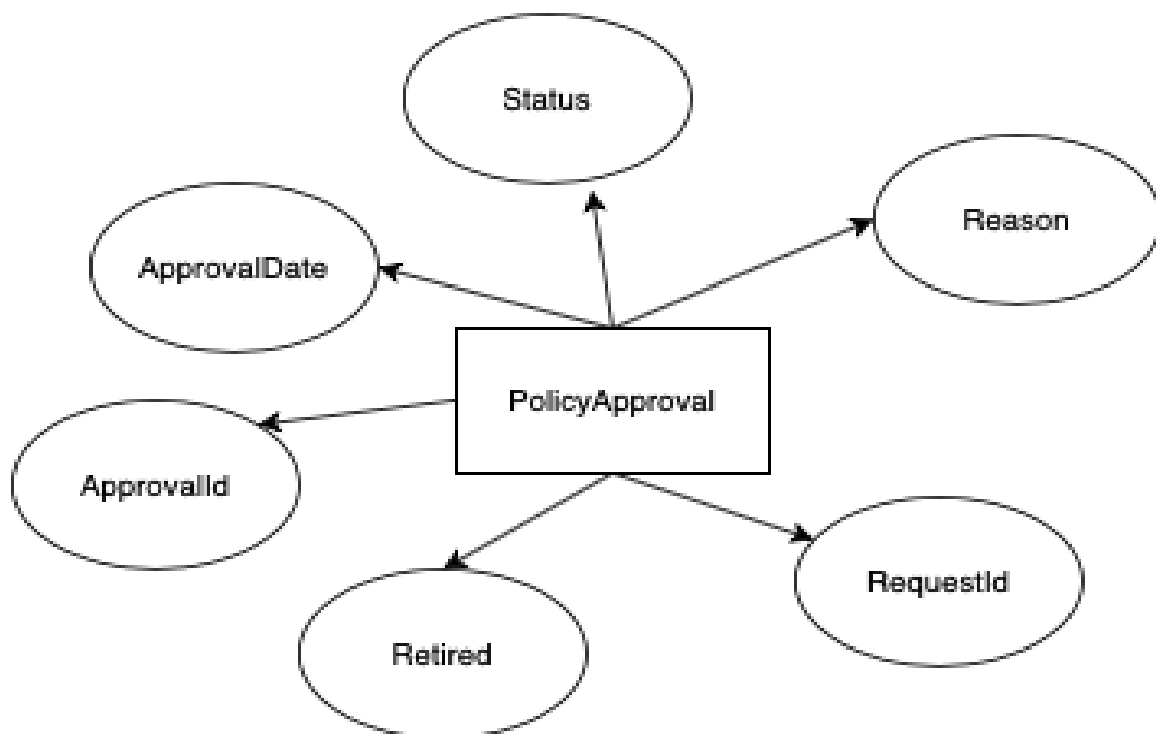
1.6 Notification Entity & Properties



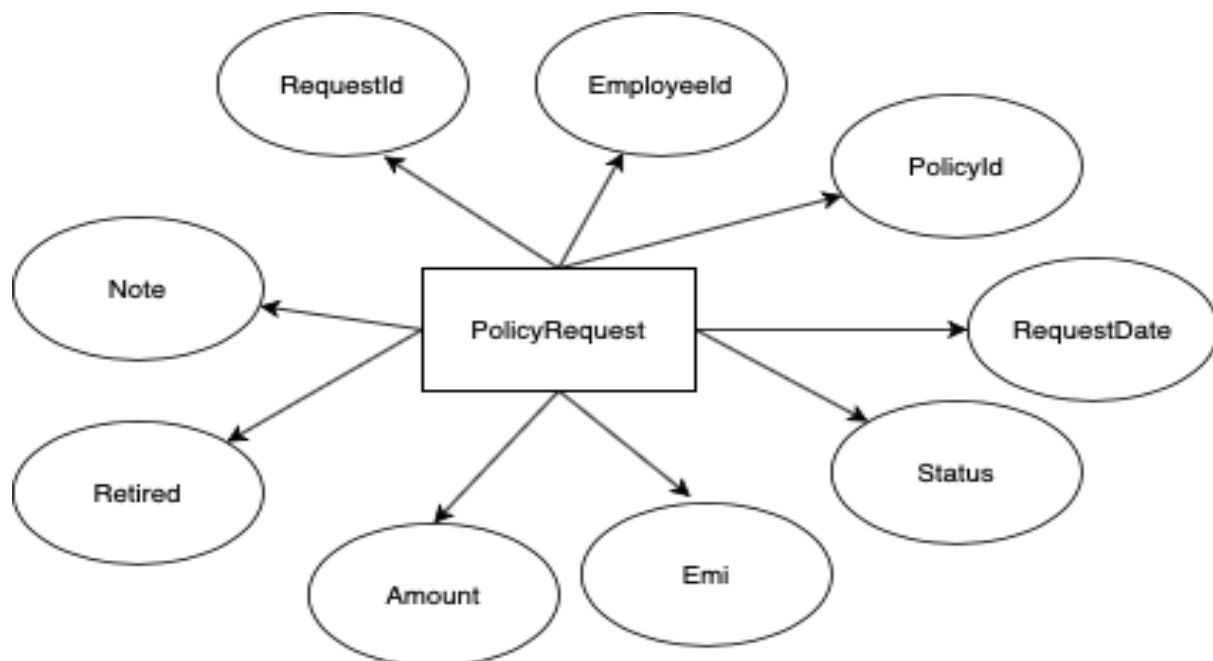
1.7 Policy Entity & Properties



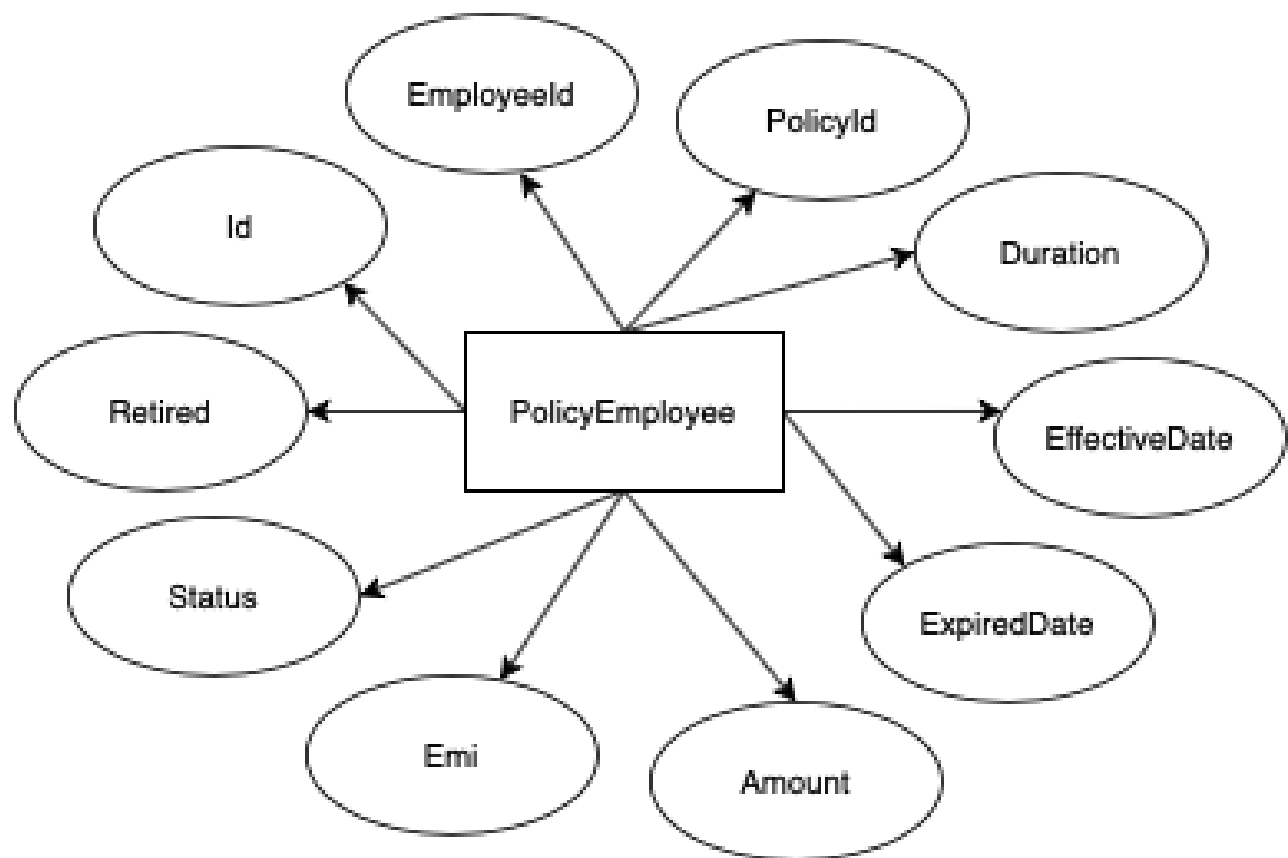
1.8 Policy Approval Details Entity & Properties



1.9 Policy Request Detail Entity & Properties



1.10 Policy Employee



REVIEW III


I.Database Design

1. Database Design Diagram





2. Database Structure


2.1 Table InsuranceCompany

InsuranceCompany	
	InsuranceCompanyId
	InsCompanyName
	Phone
	Email
	Url
	Img
	Street
	District
	City
	Country
	PostalCode
	Retired

2.2 Table Policy

Policy	
	PolicyId
	PolicyNumber
	PolicyName 
	Amount
	Emi
	Description
	Benefit
	Retired
	InsCompanyId
	HospitalId


2.3 Table Employee

Employee	
	EmployeeId
	FName
	LName
	Username
	Password
	JoinDate
	Designation
	Email
	Phone
	Street
	District
	City
	Country
	PostalCode
	DoB
	Status
	Img
	Retired
	Role


2.4 Table Hospital

Hospital	
	HospitalId
	HospitalName
	Phone
	Url
	Img
	Email
	Street
	District
	City
	Country
	PostalCode
	Retired


2.5 Table Policy Request

PolicyRequest	
	RequestId
	EmployeeId
	PolicyId
	RequestDate
	Status
	Note
	Emi
	Amount
	Retired


2.6 Table Policy Approval

PolicyApproval	
	ApprovalId
	ApprovalDate
	Status
	Reason
	RequestId
	Retired


2.7 Table Policy Employee

PolicyEmployee	
	Id
	EmployeeId
	PolicyId
	Duration
	EffectiveDate
	ExpiredDate PolicyEmployee
	Amount
	Emi
	Status
	Retired

2.8 Table Feedback

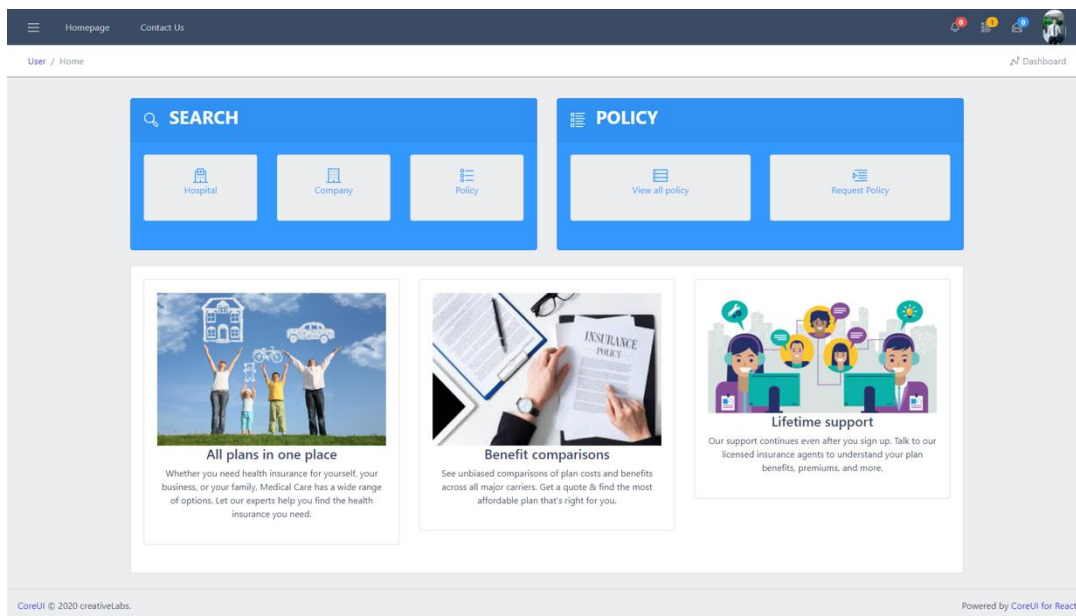
Feedback	
	FeedbackId
	Title
	[Content]
	Date
	Response
	Retired
	EmployeeId

2.9 Table Notification

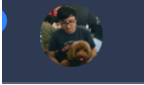

Notification	
	Id
	Title
	FromUserId
	ToUserId
	Description
	Date
	Status
	Type
	RelatedId
	RelatedType

II. GUI Design – Front-end:

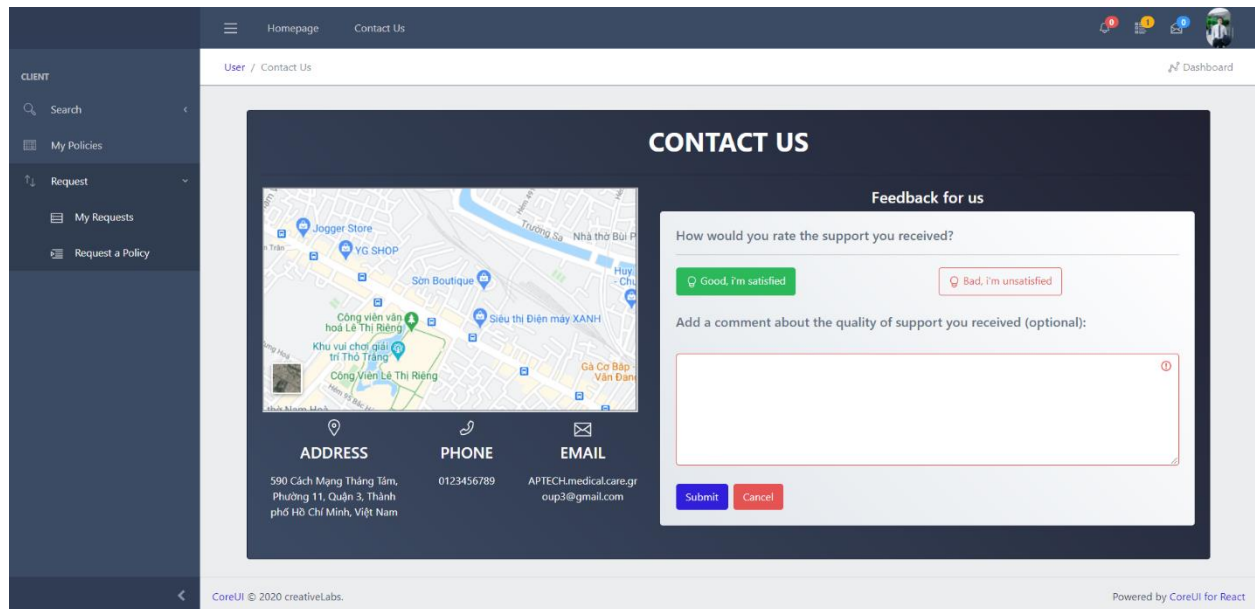
1. Home page:



❖ At home page Guest can:

- Click Homepage to view Hompage page
- Click Contact Us to view Contact page
- Click  to view Profile and logout (User avatar)
- Click  to view Sliderbar

2. Contact Us && Feedback



❖ At Contact page Guest can:

- See information of company
- Send a feedbacks to Admin

3. Search (in SliderBar)

Dashboard

User / Policy Search

Policy Number:

Max Emi:

Max Amount:

Insurance Company:

Policy Name:

Min Emi:

Min Amount:

Hospital:

Actions	#	Policy Number	Policy Name	Emi	Amount
<input type="button" value="View"/>	1	21-00001	Random Name	250	3000
<input type="button" value="View"/>	2	21-00002	Random Name	123	2467
<input type="button" value="View"/>	3	21-00003	Random Name	222	9876
<input type="button" value="View"/>	4	21-00004	Random Name	785	2345
<input type="button" value="View"/>	5	21-00005	Random Name	234	9876

« < 1 2 > »

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❖ At Search page Guest can:

- Search information of company , hospital , policy

4. My Policies(in SliderBar)

The screenshot displays a web application interface for managing policies. On the left is a dark sidebar with a 'CLIENT' header and three menu items: 'Search', 'My Policies' (selected), and 'Request'. The main content area has a top navigation bar with 'Homepage' and a user profile. Below this, a breadcrumb shows 'User / My Policies'. The 'My Policies' section contains a table with four columns: '#', 'Duration', 'Effective Date', 'Expired Date', 'Amount', 'Emi', and 'Status'. The table lists four policies, all with a status of 'In Term'. Below the table is a pagination control showing page 1 of 2. Underneath the table is a form to add a new policy, with tabs for 'Policy', 'Company', and 'Hospital'. The form includes fields for 'Policy Number' (21-00002), 'Policy Name' (Random Name), 'Policy Emi' (123), and 'Policy Amount' (2467). There are also text areas for 'Description' (Random Description) and 'Benefit' (Random Benefit).

#	Duration	Effective Date	Expired Date	Amount	Emi	Status
1	1 Months	Sat Jan 23 2021	Tue Feb 23 2021	1000 \$	700 \$	In Term
2	1 Months	Sat Jan 23 2021	Tue Feb 23 2021	800 \$	500 \$	In Term
3	2 Months	Sat Jan 23 2021	Tue Mar 23 2021	400 \$	200 \$	In Term
4	12 Months	Tue Jan 26 2021	Wed Jan 26 2022	2019 \$	168.25 \$	In Term

Policy Number: 21-00002
Policy Name: Random Name
Policy Emi: 123
Policy Amount: 2467
Description: Random Description
Benefit: Random Benefit

❖ At My Policy page Guest can:

- See existing policies

5. Request

CLIENT

Search

My Policies

Request

My Requests

Request a Policy

Homepage

Contact Us

User / Policy Request List

Dashboard

My Requests

Approval	#	Request Date	Status	Emi	Amount
<div>Cancel</div> <div>Details</div>	2	2021-01-25T23:59:13.7449539	Requesting	500	800
<div>Cancel</div> <div>Details</div>	3	2021-01-25T23:59:13.7449625	Requesting	700	1000

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CLIENT

Search

My Policies

Request

My Requests

Request a Policy

Homepage

Contact Us

User / Policy Request

Dashboard

Request Info

Select Policy

Request Amount

Duration

Request Emi

Policy

Company

Hospital

Policy Number

Policy Name

Policy Emi

Policy Amount

Description

Benefit

Request

Cancel

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CLIENT

Search

My Policies

Request

My Requests

Request a Policy

Homepage Contact Us

User / Policy Request / Policy Request

Dashboard

Request Info

Select Policy

21-00002 Random Name

Policy Company Hospital

Policy Number

21-00002

Policy Name

Random Name

Policy Emi

123

Policy Amount

2467

Description

Random Description

Benefit

Random Benefit

Cancel

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❖ At Request page Guest can:

- See existing requests
- Create a new request
- See details request

III. GUI Design – Back-end:

1. Add employee:

The screenshot shows a web application interface for adding a new employee. The form is titled 'ADD NEW EMPLOYEE' and is located within a dashboard. The dashboard has a sidebar menu with options like Management, Company, Hospital, Policy, Employee, Request, Approval, Report, Feedback, Utility, and Icons. The top navigation bar shows the current path: Admin / Employees / New Employee. The form itself has several input fields: First Name, Last Name, Username, Password, Phone, Email, Date of Birth, Designation, Street, District, City, Postal Code, and Country. There is also an 'Upload Image' section with a 'Choose File' button. The form is styled with a light blue background and red borders for the input fields. The bottom of the dashboard shows the footer with 'CoreUI © 2020 creativeLabs.' and 'Powered by CoreUI for React'.

Create New Employee					
Name	Type	Validation	Event	Description	Status
FName	TextField	0 <= Length <= 50	Input	Input first name	Enable
LName	TextField	0 <= Length <= 50	Input	Input last name	Enable
Username	TextField	0 <= Length <= 50	Input	Input username	Enable
Password	TextField	0 <= Length <= 50	Input	Input password	Enable
Phone	TextField	0 <= Length <= 15 Number only	Input	Input phone	Enable
doB	Datetime Picker	Datetime	Choise	Select date	Enable

Designation	TextField	0 <= Length <= 50	Input	Input designation	Enable
Email	TextField	0 <= Length <= 100 Email stype	Input	Input email	Enable
Street	TextField	0 <= Length <= 255	Input	Input stress	Enable
District	TextField	0 <= Length <= 50	Input	Input district	Enable
City	TextField	0 <= Length <= 50	Input	Input city	Enable
Country	TextField	0 <= Length <= 50	Input	Input country	Enable
PostalCode	TextField	0 <= Length <= 10	Input	Input potalcode	Enable

2. Add Company

Dashboard

ADMIN

Management
Company
Hospital
Policy
Employee
Request
Approval
Report
Feedback
Utility
Icons

Admin / Companies / New Company

Dashboard

ADD NEW COMPANY

Company Name

Enter your name

Phone

Phone Number

Email

Email address

Website

website Url

Street

Street

District

District

City

City

Postal Code

Postal

Country

Country

Submit

Reset

Back

Upload Image

Choose File

No file chosen

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Add New Company					
Name	Type	Validation	Event	Description	Status
InsCompanyNa me	TextField	0 <= Length <= 255	Input	Choose	Enable
Phone	TextField	0 <= Length <= 15 Number only	Input	Input phone	Enable
Email	TextField	0 <= Length <= 150 Email stype	Input	Input email	Enable
Url	TextField	0 <= Length <= 255	Input	Input url	Enable
Img	TextField	0 <= Length <= 255	Input	Input img string	Enable
Street	TextField	0 <= Length <= 255	Input	Input stress	Enable
District	TextField	0 <= Length <= 50	Input	Input district	Enable
City	TextField	0 <= Length <= 50	Input	Input city	Enable
Country	TextField	0 <= Length <= 50	Input	Input country	Enable
PostalCode	TextField	0 <= Length <= 10	Input	Input potalcode	Enable

3. Add Policies

The screenshot shows a web application interface for adding a new policy. The top navigation bar includes a 'Dashboard' link and a user profile icon. The left sidebar lists various management options: Management, Company, Hospital, Policy, Employee, Request, Approval, Report, Feedback, Utility, and Icons. The main content area is titled 'ADD NEW POLICY' and contains the following form fields:

- Policy Name:** A text input field with a placeholder 'Enter Policy name' and a red error icon.
- Company:** A dropdown menu with 'Công ty Bảo Việt Nhân Thọ' selected, a green checkmark, and a 'Details' button.
- Policy Amount:** A text input field with a red error icon.
- Policy Emi:** A text input field with a red error icon.
- Hospital:** A dropdown menu with 'Bệnh viện Nhân Dân Gia Định' selected, a green checkmark, and a 'Details' button.
- Description:** A text area with a green checkmark.
- Policy Benefit:** A text area with a red error icon.

At the bottom of the form, there are three buttons: 'Submit' (blue), 'Reset' (red), and 'Back' (yellow). The footer of the page indicates 'CoreUI © 2020 creativeLabs.' and 'Powered by CoreUI for React'.

Add Policies					
Name	Type	Validation	Event	Description	Status
PolicyNumber	TextField	0 <= Length <= 15	Input	Input policy number	Enable
PolicyName	TextField	0 <= Length <= 255	Input	Input policy name	
Amount	TextField	money	Input	Input amount	Enable
Emi	TextField	money	Input	Input emi	Enable
Description	TextField	0 <= Length <= 255	Input	Input Description	Enable
Benefit	TextField	0 <= Length <= 255	Input	Input Benefit	Enable
InsCompanyId	Select	No null	Select	Choise company	Enable
HospitalId	Select	No null	Select	Choise Hospital	Enable

4. Add Hospital

The screenshot shows a web application interface for adding a new hospital. The main content area is titled 'ADD NEW HOSPITAL'. It contains several form fields with red borders and clear (X) buttons:

- Hospital Name:** A single-line text input with the placeholder 'Enter your name'.
- Phone:** A single-line text input with the placeholder 'Phone Number'.
- Email:** A single-line text input with the placeholder 'Email address'.
- Website:** A single-line text input with the placeholder 'website Url'.
- Street:** A single-line text input with the placeholder 'Street'.
- District:** A single-line text input with the placeholder 'District'.
- City:** A single-line text input with the placeholder 'City'.
- Postal Code:** A single-line text input with the placeholder 'Postal'.
- Country:** A single-line text input with the placeholder 'Country'.

At the bottom of the form are three buttons: 'Submit' (blue), 'Reset' (red), and 'Back' (yellow). To the right of the form is an 'Upload Image' section with a 'Choose File' button and a 'No file chosen' status. The entire form is part of a dashboard with a sidebar menu and a top navigation bar.

Create Hospital					
Name	Type	Validation	Event	Description	Status
HospitalName	TextField	0 <= Length <= 255	Input	Input HospitalName	Enable
Phone	TextField	0 <= Length <= 15 Number only	Input	Input phone	Enable
Url	TextField	0 <= Length <= 255	Input	Input url	Enable
Img	TextField	0 <= Length <= 255	Input	Input img string	Enable
Email	TextField	0 <= Length <= 150 Email stype	Input	Input email	Enable
Street	TextField	0 <= Length <= 255	Input	Input stress	Enable
District	TextField	0 <= Length <= 50	Input	Input district	Enable
City	TextField	0 <= Length <= 50	Input	Input city	Enable

Country	TextField	0 <= Length <= 50	Input	Input country	Enable
PostalCode	TextField	0 <= Length <= 10	Input	Input potalcode	Enable

Task Sheet Review III

Project Ref. No: 3	Project Title: Railway Reservation Manage System	Date of Preparation of Activity Plan			
No.	Task	Actual Start Date	Actual Days	Team Member Names	Status
01	Database Diagram GUI Design Back-End	Jan-27,2021	5	Nguyễn Vũ Hoàng Hoá	Completed
02	Database Structure GUI Design Back-End			Phạm Xuân Bách	Completed
03	GUI Design Front-End GUI Design Back-End			Lưu Trọng Phát	Completed
04				Đỗ Trí Thịnh	Failed

	Prepare By: Group 4	Approved By: Faculty
Date: Jan-27,2021	Team Leader	

	Nguyễn Vũ Hoàng Hoá	Mr. Ngo Phuoc Nguyen
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