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Department of Computer Science
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المملكة العربية السعودية
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جامعة المجمعة
كلية العلوم بالزلفي
قسم علوم الحاسب والمعلومات

Project Report for the 1st Semester of year 1440-1441



AMMEN FOR INSURANCE

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Abstract

The idea of my project is to create a website that searches for the cheapest and finest insurance companies and selects them and gets the insurance policy (auto insurance - health insurance - travel insurance) via the web

Acknowledgement :

I have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals. I would like to extend my sincere thanks to all of them.

I am highly indebted to Dr.Mafawez Alharbi for guidance and constant supervision as well as for providing necessary information regarding the project & also for their support in completing the project.

I would like to express my friends of for their kind co-operation and encouragement which help me in completion of this project

**MAJMAAH UNIVERSITY,
COLLEGE OF SCIENCE AL ZULFI,
DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION**

(CERTIFICATE BY STUDENT)

This is to certify that the project titled “**Ameen For Insurance** ” submitted by me (**Abdulaziz Essa Alhdbani Student ID: 341105820**) under the supervision of **Dr. Mafawez Alharbi** for award of Bachelor degree of the Majmaah University carried out during the Semester 1, 2018-19 embodies my original work.

Signature in full: -----

Name: **Abdulaziz Essa Alhdbani**

Student ID: **341105820**

Date: 2019

Chapter 1

Introduction

1.1 Electronic marketing of insurance policies and their challenges

In light of the global trend towards providing greater freedom to engage in various activities in different sectors in all countries of the world in different political and economic directions, in addition to the recent tremendous progress in information and communication technology and the increasing role of e-commerce in the marketing of goods and services through the Internet, As one of the most prominent applications resulting from this development, which is expected to bring about a radical change in the infrastructure of the various economic sectors, including the insurance sector, which will not be immune to or excluded from these developments

1.2 Advantages of electronic marketing of insurance policies

- 1- Insurance companies have become, thanks to electronic marketing, the use of modern technologies in the areas of service design rather than traditional design methods, as there are many software ready and detailed for such insurance services.
- 2- Producing and providing computer-based insurance services through internet networks.
- 3- Obtain immediate information on the level of insurance services in the insurance market and marketing quotas through advanced communication networks.
- 4- Preparing studies for the market, customers and purchasing behavior.
- 5- Electronic marketing techniques contribute to the identification of after-sale services for the insurance product of the company.
- 6- With the use of the Internet, customers can compare documents, conditions and prices directly and in real time, allowing them to search for the best offers.

1.3 The Disadvantages of Electronic Marketing

Insurance Policies:

- 1- Tricky terms and conditions: While taking an insurance policy, some of the terms and conditions could be tricky that you may not get compensation for all the losses. It is important to read through the conditions before buying it.
- 2- Lengthy legal formalities: Though you may have opted for a good plan, claiming the insurance money could take a long time due to its lengthy legal procedures to be carried out by the company.
- 3- Potential crime incidents: Life insurance policies could lead to potential crime incidents as the beneficiaries of the policy might get tempted to resort to wrong ways to get obtain the insured amount.

1.4 The idea of the project:

My project idea is to create a Web site looking for it

The best insurance companies in terms of prices and services provided by the company

Compare prices with the cheapest and finest insurance companies at once and effortlessly within a short period of time

And get your insurance policy (auto insurance - health insurance - travel insurance) via the web



1.5 Insurance steps :

1. Know the names of insurance companies offering online services.
2. Provide insurance policy prices for insurance companies to
3. distinguish between them.
4. Get online payment validity for customers who use my website.
5. Issuing the insurance policy through my website.
6. Advertise my site via the web.

1.6 Advantages of my project:

1. Know the insurance services provided by insurance companies
2. Insurers are committed to providing credibility to their customers when booking through my website.
3. Quality in customer service from insurance company
4. Get the benefits offered by the company
5. Comparison of Insurance Rates for Insurance Companies in the Kingdom of Saudi Arabia
6. The speed of issuance of the insurance policy through the website
7. Save customer information if he wants to renew the insurance without having to fill out the forms again

1.7 Previous studies

1- Al-Tamini site: Established in 2019

Car insurance only (comprehensive - against others)

When you want insurance requires you

(National ID card - car document - credit card - 5 different car pictures)

Linked to the national address database,

Add a percentage of each amount of 2%

Website URL [<https://www.tameeni.com/en>]

2- website BCare : Established in 2018

Car insurance only (comprehensive - against others)

When searching for insurance rates, the name of the car owner must be identical to the national ID number

Also, the insurance prices are higher than the basic corporate prices

Website Link [<https://www.bcare.com.sa/>]

Chapter 2

2.1 User and system requirement document:

An SRS is basically an organization's understanding (in writing) of a customer or potential client's system requirements and dependencies *at a particular point in time* (usually) prior to any actual design or development work. It's a two-way insurance policy that assures that both the client and the organization understand the other's requirements from that perspective at a given point in time.

2.2 Users:

Users of the insurance website:

There are 3 users online

- System Administrator : It is responsible for entering basic system data as an example of names Companies and insurance values for each type of insurance.
- The employee : who completes the data and agrees to the insurance policy.
- The client : who enters the system looks for cheaper insurance companies.

User's	definition
System Administrator	It is responsible for entering basic system data
Employee	completes the data and agrees to the insurance policy
Client	enters the system looks for cheaper insurance companies

Table 1

Chapter 3

System Diagrams

3.1 Use Case Diagram :

its simplest is a representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved. A use case diagram can identify the different types of users of a system

and the different use cases and will often be accompanied by other types of diagrams as well. The use cases are represented by either circles or ellipses.

3.1.1 Use case diagram for Admin

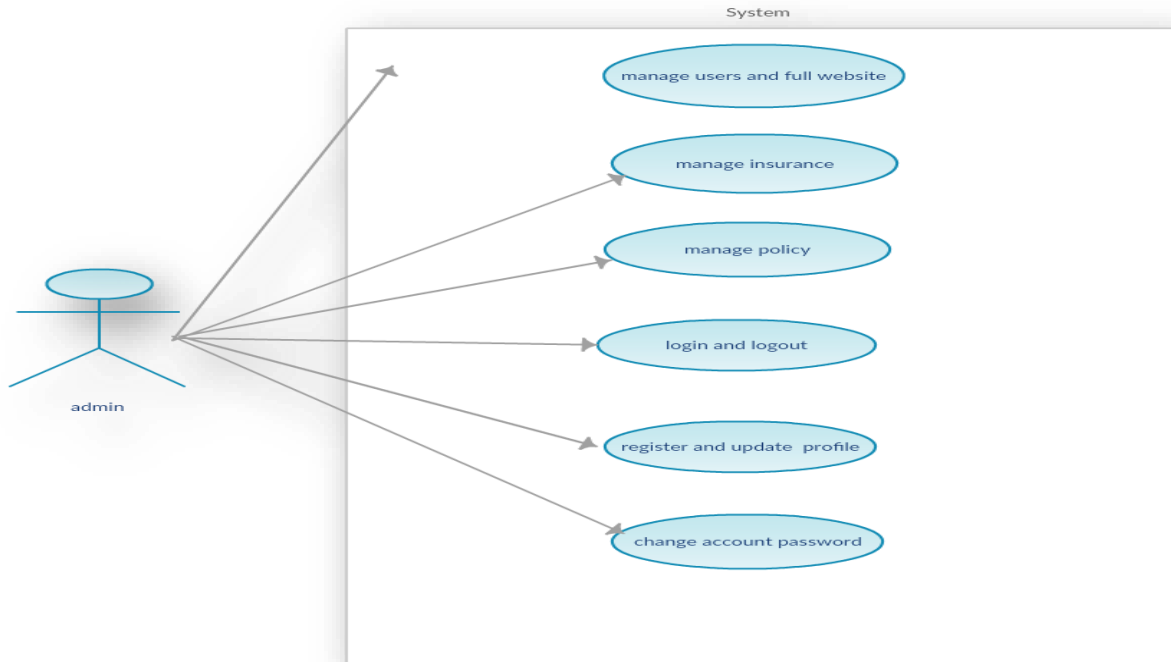


Figure 1

System Administrator: Has login and exit powers,
user management, entire site, insurance management
and management of insurance policies
Its profile can be updated
And change the password for the account

3.1.2 Use case diagram for employee:

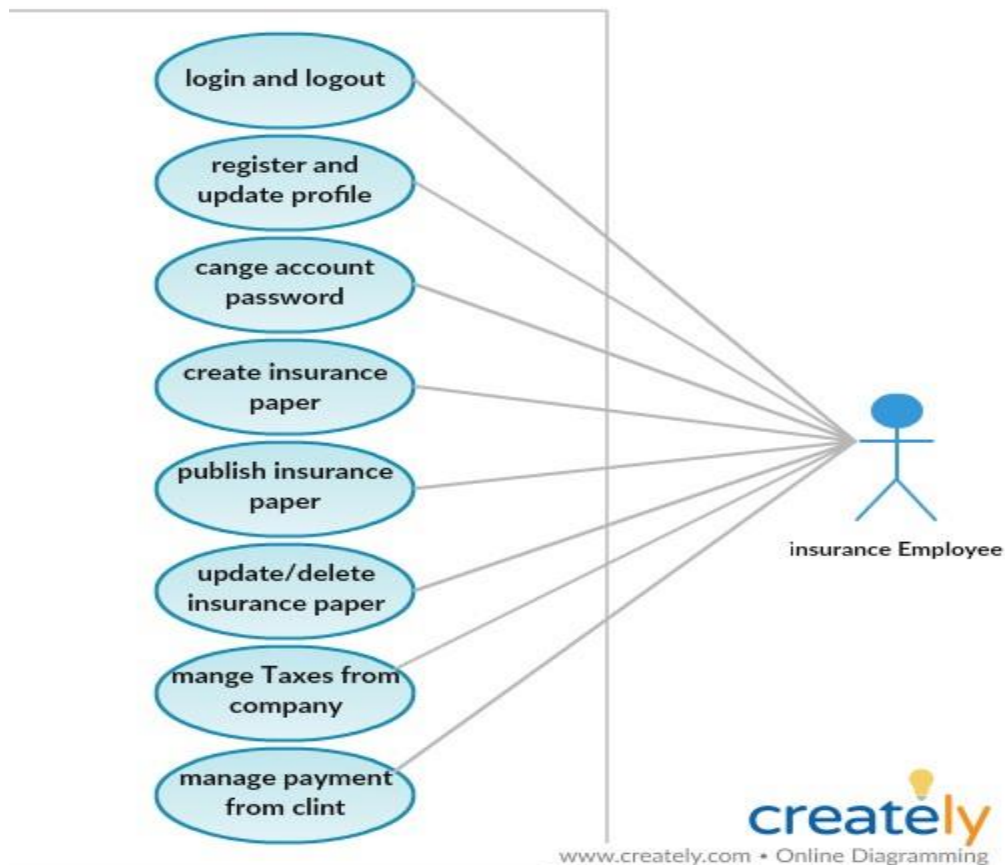


Figure 2

The insurance officer has the ability to sign in and out, update the profile, and change the account password

And the creation of the insurance sheet

Send the insurance sheet to the customer and update and delete the insurance sheet and manage the tax from the company

And payment management from the client

3.1.3 Use case diagram for client:

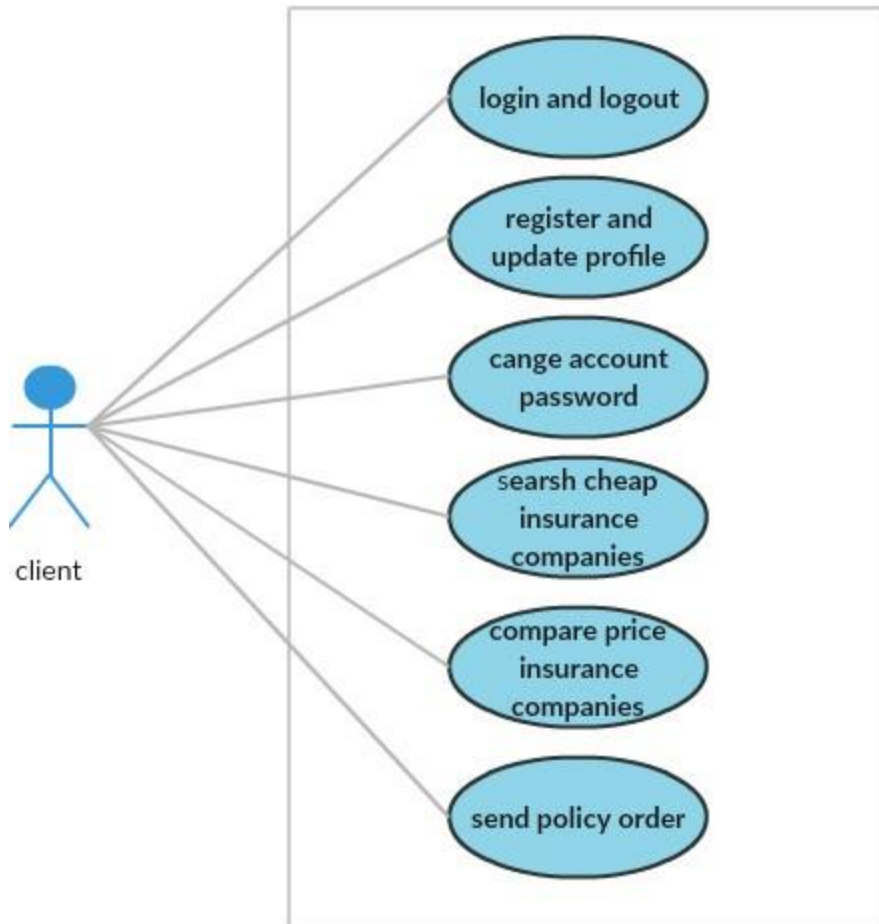


Figure 3

Customer can sign in and out And update your profile
Change the password for the account Research the
appropriate insurance companies and compare the prices
of insurance companies Request to send the policy

3.2 Sequence diagram

A sequence diagram shows object interactions arranged in time sequence. It depicts the objects and classes involved in the scenario and the sequence of messages exchanged between the objects needed to carry out the functionality of the scenario. Sequence diagrams are typically associated with use case realizations in the Logical View of the system under development. Sequence diagrams are sometimes called **event diagrams** or **event scenarios**.

3.2.1 Sequence diagram for Administrator :

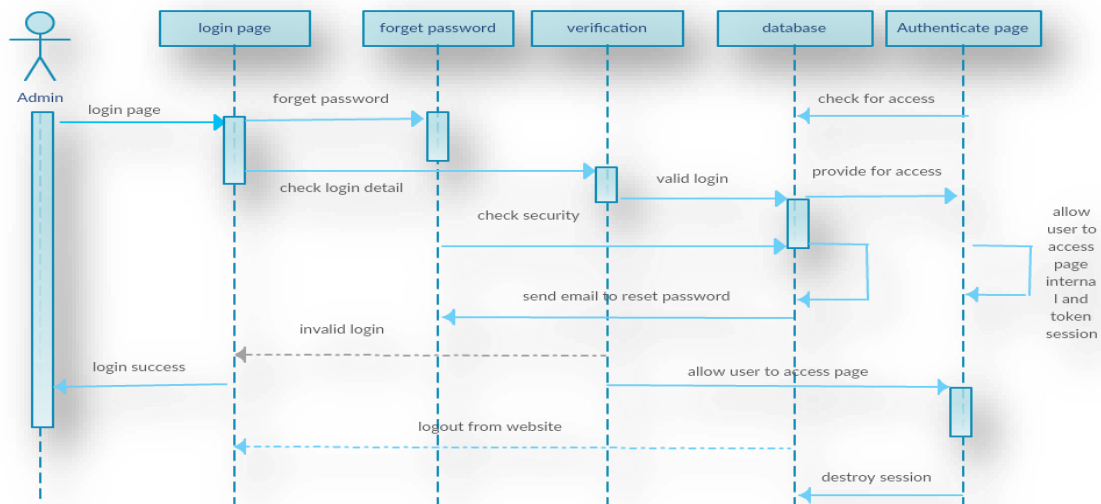


Figure 4

Log in to the page if the passcode is lost. Checks for secure login

and sends a new passcode to the registered email

If the login is valid, give the user access to the page

Allow the user to access the internal page

If the login is invalid, it goes to the login page again

3.2.2 Sequence diagram for employee and client :

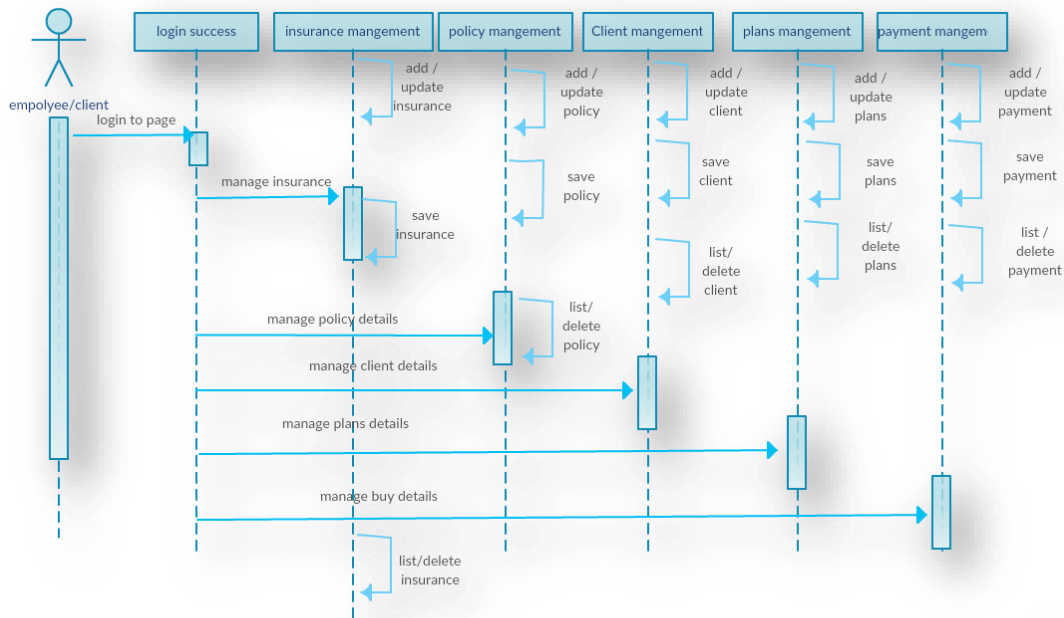


Figure 5

If success login Insurance mangement by adding or updating insurance, and saving and removing insurance from the insurance list

policy mangement

Insurance policy In terms of adding or updating an insurance policy,

keep the insuance policy and remove it from the insurance list

And also, on , client Management , Manage plans , Payment Management

3.3 Active diagram

Activity diagram is another important diagram in UML to describe the dynamic aspects of the system. Activity diagram is basically a flowchart to represent the flow from one activity to another activity. The activity can be described as an operation of the system. The control flow is drawn from one operation to another

3.3.1 Active diagram fro Admin

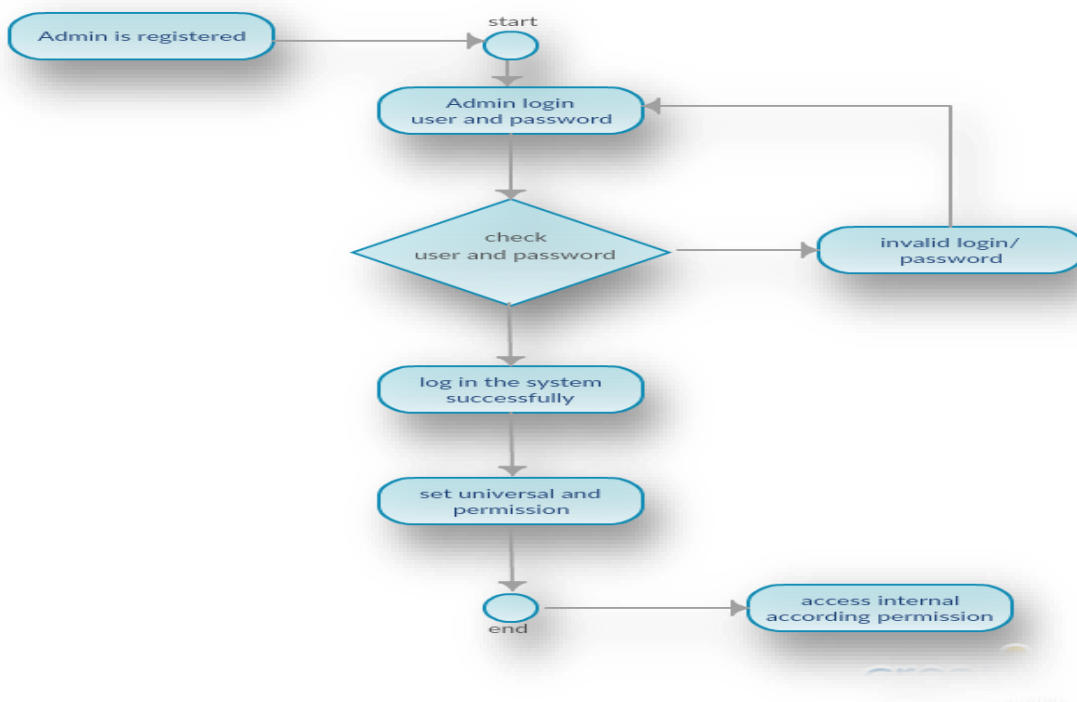


Figure 6

This is the Login Activity Diagram of Insurance Policy Inquiry System, which shows the flows of Login Activity, where admin will be able to login using their username and password. After login user can manage all the operations on Insurance and user will not be able to access this page without verifying their identity

3.3.2 Active diagram for Employee /Client

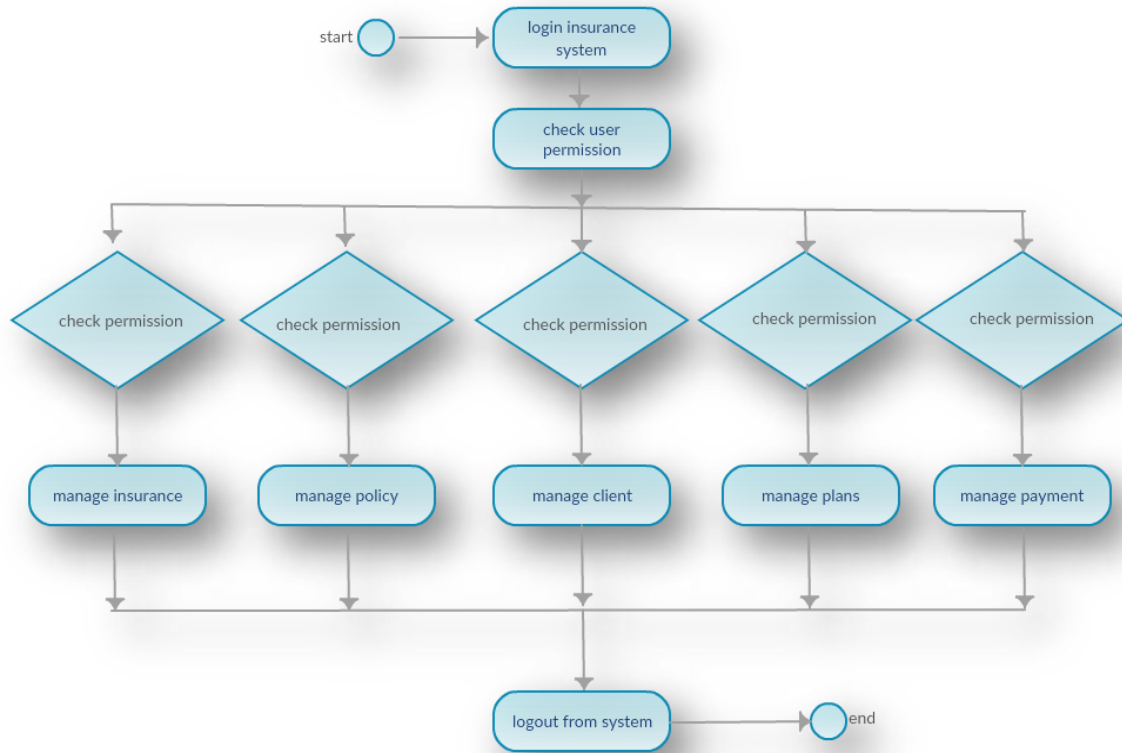


Figure 7

User can search Plans, view description of a selected Plans, add Plans, update Plans and delete Plans Its shows the activity flow of editing, adding and updating of client User will be able to search and generate report of Insurance, Policy, payment All objects such as (Plans, client , payment) are interlinked Its shows the full description and flow of Plans, Policy, payment , Insurance, client

3.4 ERD : Entity Relationship Diagram:

An Entity Relationship (ER) Diagram is a type of flowchart that illustrates how “entities” such as people, objects or concepts relate to each other within a system. ER Diagrams are most often used to design or debug relational databases in the fields of software engineering, business information systems, education and research. Also known as ERDs or ER Models, they use a defined set of symbols such as rectangles, diamonds, ovals and connecting lines to depict the interconnectedness of entities, relationships and their attributes. They mirror grammatical structure, with entities as nouns and relationships as verbs

3.4.1 Entity Relational Database (ERD)

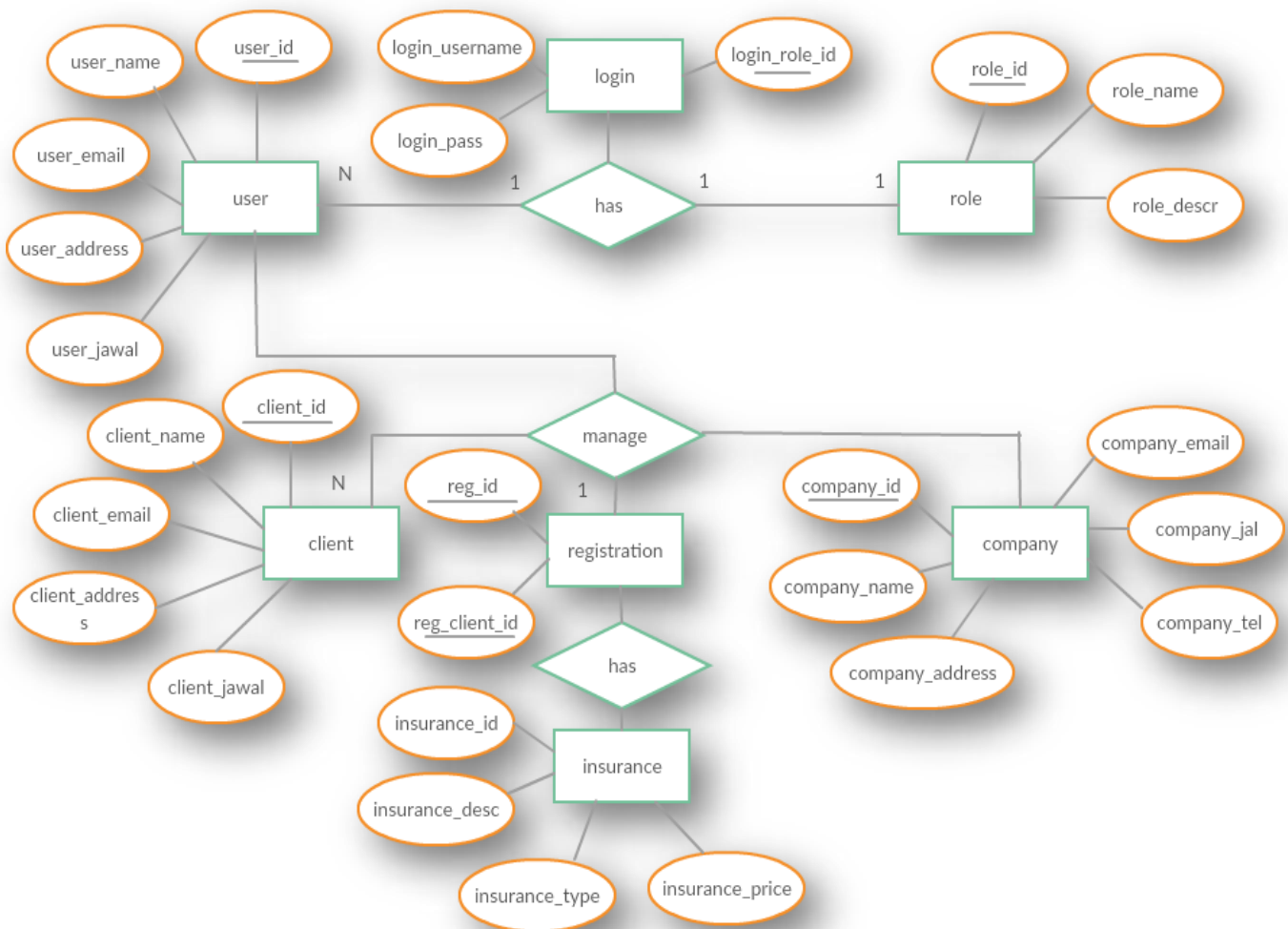


Figure 8

3.5 References:

- <https://www.freeprojectz.com/uml-diagram/insurance-policy-enquiry-system-uml-diagram>.
- <https://www.bridging-the-gap.com/erd-entity-relationship-diagram/>
- <https://www.freeprojectz.com/>
- https://en.wikipedia.org/wiki/Software_engineer