

Project Nam

Furniture Store Management System (IKEA Store)

Team Members

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|---------------------------|----------|
| 1-Rawan Hamada Ali | 20-01021 |
| 2-Sara Emad Eshaq | 20-01127 |
| 3-Zyad Medhat Abdelraheem | 20-01083 |

Specification Goal

1- This software facilitates the user to pick various products in his house by searching in our program /website about the things he wants it.

2- This software benefits are to finish preparing the products of the house as fast as possible by searching in the categories of the program /website.

3-The software creates an email and password for the clients to facilitate buying their products online, create his own design of furniture and to deliver his products with delivery service by adding his information in the software.

4- The software is expected to be finished and completed in duration of 66 days and the estimated cost is 350k \$.

Determine the methodology on your project and why?

We will use iterative model.

Because this model is developed quickly by a mini waterfall process and once implemented the user can give us valuable feedback to be developed into the next version of the system.

The requirements of the final product are carefully predefined, and the details may advance with the time.

Milestone

- 1- Project agreement
- 2-Design agreement
- 3-Page of each type of product
- 4- Final agreement

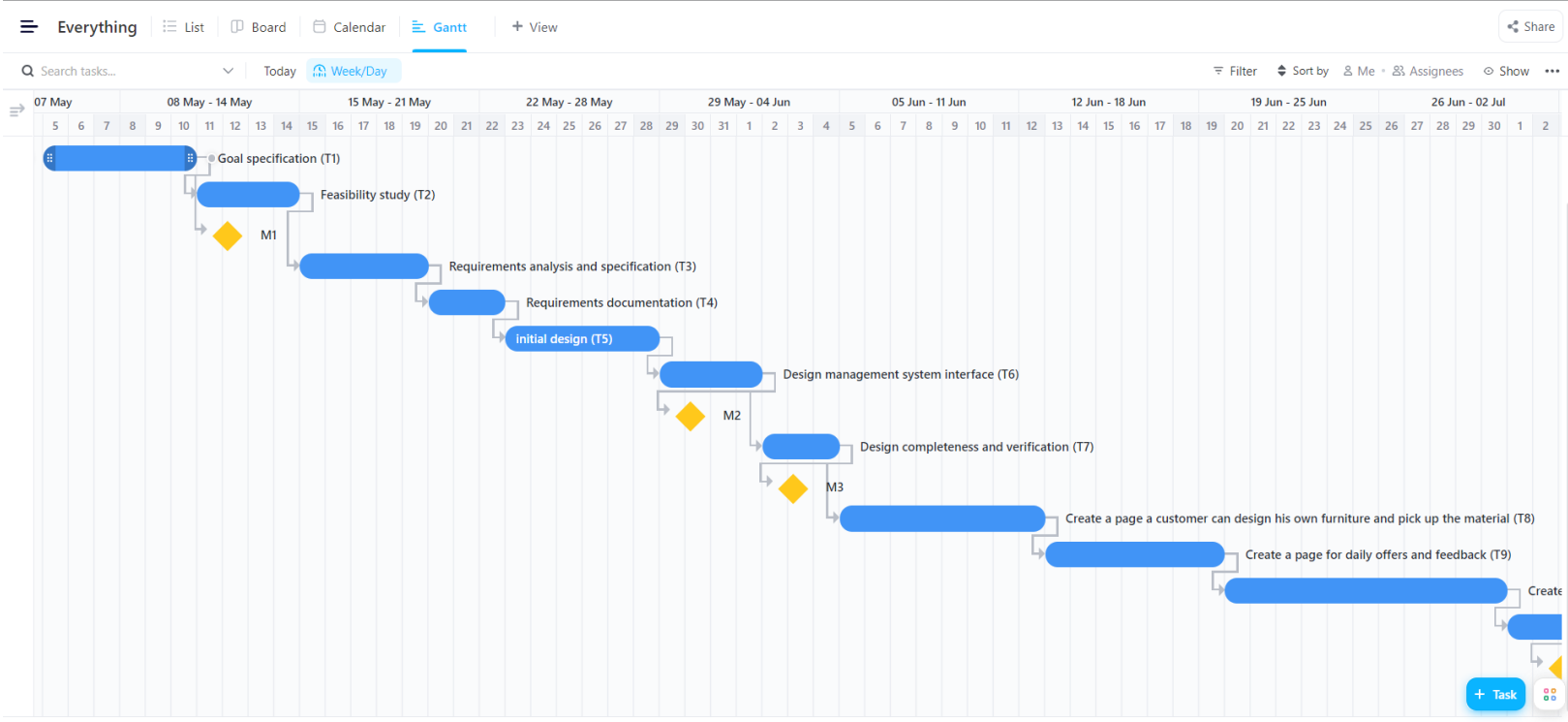
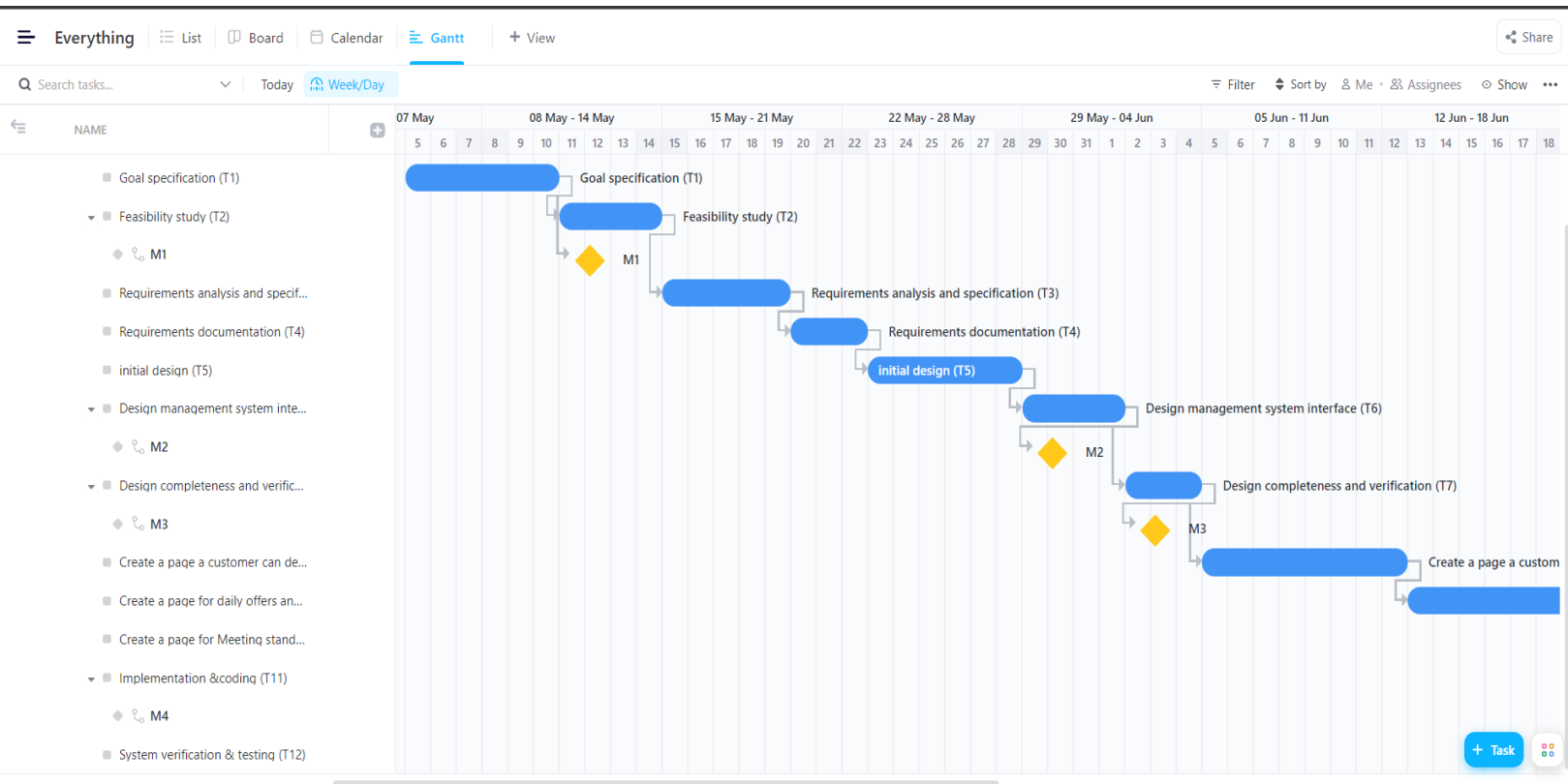
Schedule Tasks

- Goal specification (T1)
- Feasibility study (T2)
- Requirements analysis and specification (T3)
- Requirements documentation (T4)
- Initial design (T5)
- Design management system interface(T6)
- Design completeness and verification (T7)
- Create a page a customer can design his own furniture and pick up the materials (T8)
- Create a page for daily offers and feedback (T9)
- Create a page for Meeting standards & quality of goods (T10)
- Implementation & coding (T11)
- System verification and testing(T12)

Tasks	Dependences	duration
T1	–	5 DAYS
T2	(T1) M1	4 DAYS
T3	(T1, T2)	5 DAYS
T4	(T3)	3 DAYS
T5	(T4)	6 DAYS
T6	(T5)	4 DAYS
T7	(T6)M2	3 DAYS
T8	(T7)M3	8 DAYS
T9	(T8,T7)	7 DAYS
T10	(T9)	10 DAYS
T11	(T10,T9)	6 DAYS
T12	(T11)M4	2 DAYS

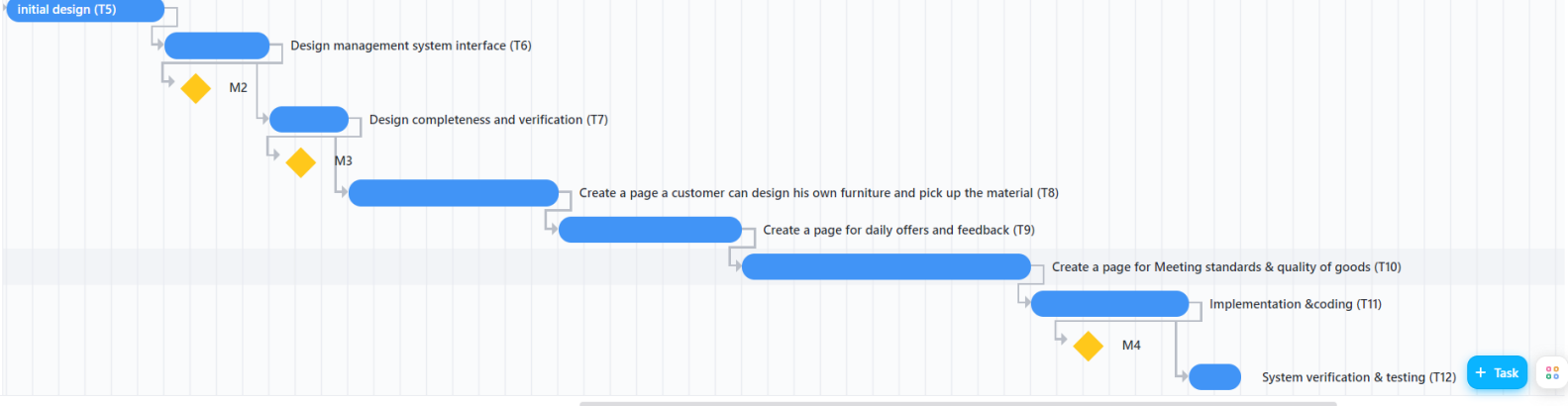
Gantt Chart: (Link 4tof Gantt chart)

link: <https://sharing.clickup.com/36182104/g/h/12g62r-40/9308023c6604d9e>



Requirements analysis and specification (T3)

Requirements documentation (T4)



Functional Requirements

User interface:

1- user login:

User must be able to register to the application or the website through a valid email address. If the user skipped this step the application/website won't open.

2-sending messages:

The user must be able to contact the customer services by making a small box of chat for his queries.

3-sending attachments:

The user should be able to send pictures or videos to provide us with more information about his own design that he wants.

4- user profile:

The user should be able to edit his name and profile if he wants that.

Software interface:

1- transaction software needed to facilitate the transaction of money between the user and the company.

2-cloud database is needed to record all the user's profiles and the transactions done.

Communication interface:

1- The system contains a small chat box to facilitate the communication between the user and the company and a customer service number.

2-The communication protocol used will be TCP/IP and for transfer data FTP.

Non-functional Requirements

1-usability: the user will see the homepage that contain at the top left of the screen his profile information's and in the bottom of the screen the daily offers that the furniture store management (IKEA) offer.

2- Reliability/ Availability: the system will be worked for 24/7 in anytime.

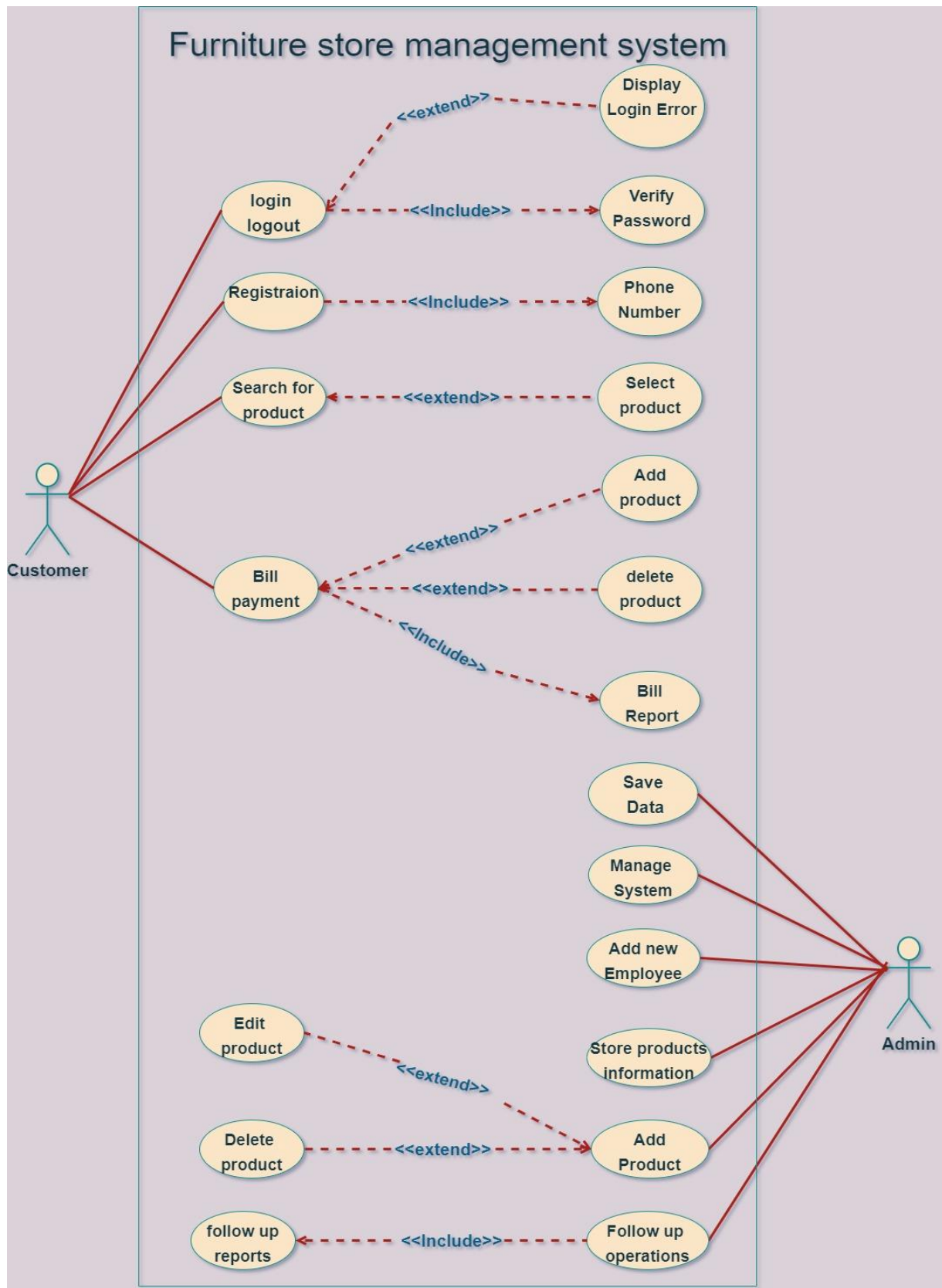
3-performance: the application/website is lightweight, and the system is too big that it will be operated all over the world. the servers and database are big enough to handle all the information coming to the company.

4- supportability: the application/website can be operated on any operating system windows, mac, Linux, IOS, android ...etc.

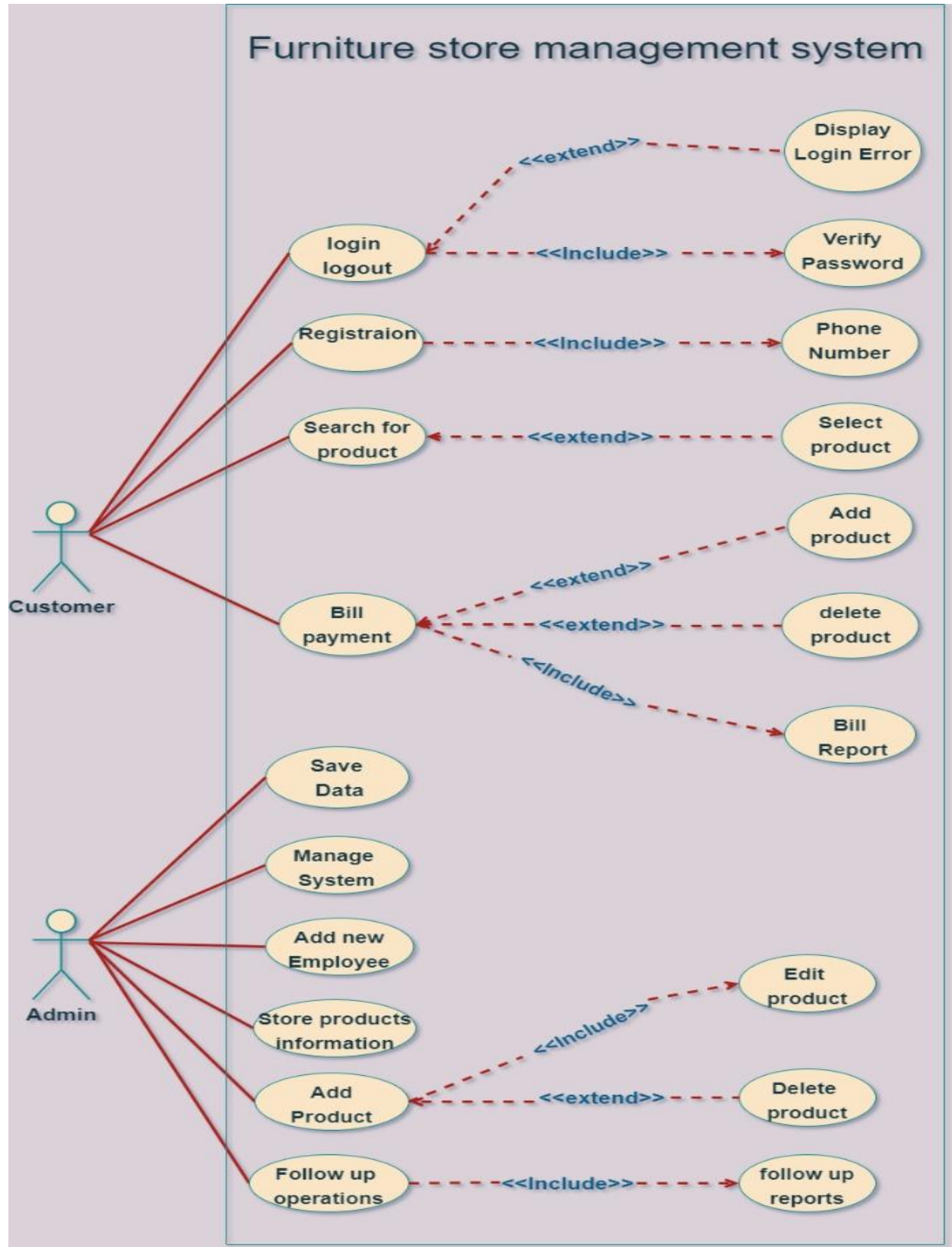
5- Security: The system shall be compatible with AIMS security standards. The password shall be 6-14 characters long.

Passwords shall not contain name of customers and the passwords can contain digit and underscore

Use Case Diagram



Use Case Diagram



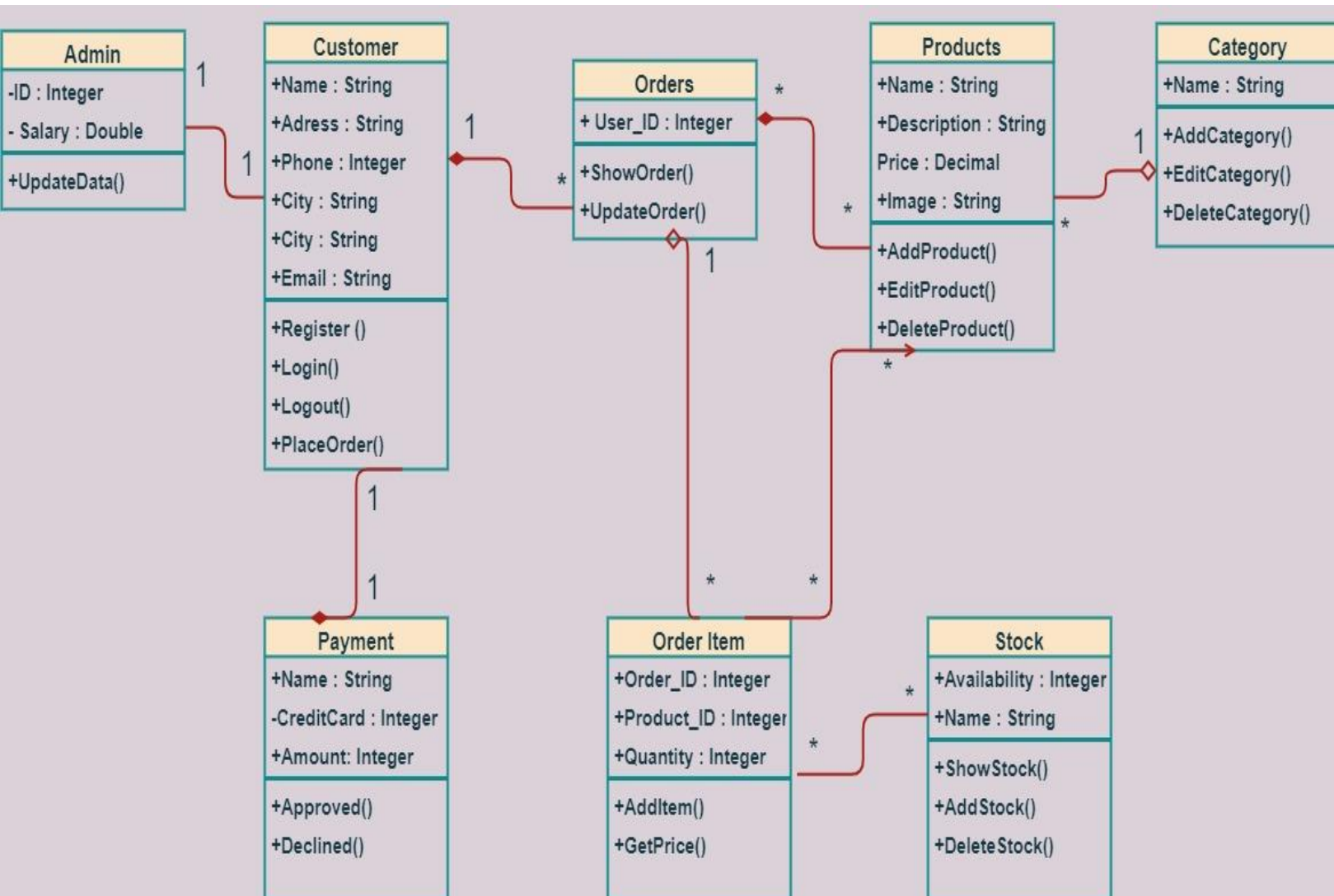
Use Case Description

Use case ID	UC 15
Use case name	Login
Summary	*The customer can enter the website. *User login and the system validates the user.
Pre-condition	*The customer must have an account on the site. *Login page must be displayed.
Trigger	The customer must first open the site, take a quick look at the products, and then log in.
Post-condition	*The customer begins to enter the site. *Verify that the user's username and password to check they are correct.
Main scenario	The customer enters his personal email: 1- The customer will go to the login menu and click on it. 2-System prompts the user for username or Email and password. 3-The system checks the username and password. 4-If the input is valid value, then the system will display the home page of the site.
alternatives	1-If an incorrect username or password is entered, the customer will not be able to access the site and buy products. 2-In case of forgot the password, the user can choose "forgot password" link or contact the customer services. 3-If the user typed the username and password wrong in the second time the system will display an Error message: " check your email and password then try again"

Use case ID	UC 16
Use case name	Prepare the bill
Summary	Give the bill for sold products
Pre-condition	The customer must be logged in to the website to perform this step.
Trigger	The customer clicks the button buy to navigate to the prepare bill page.
Post-condition	The customer gets the product and print the bill for him.
Main scenario	<p>1- The customer must login into the website.</p> <p>2- The customer search for the product that he wants to buy and click on the button buy.</p> <p>3-The system will take the customer to the payment page.</p> <p>4-the customer enters his personal information and the credit card number.</p> <p>5- IF the information is correct the system will record the transaction of the money and gives the product to the customer</p> <p>6- A short message will be appeared that transaction is accomplished, and the product is sold for the customer.</p> <p>7- The system closes the payment page.</p>
alternatives	<p>1- IF the customer entered wrong information about his credit card the system asks him to write the correct information every time, he types it wrong.</p> <p>2-If the customer chooses cancel option the system will return to the previous view product page</p>

Use case ID	UC 17
Use case name	Logout
Summary	The customer exit from the website by clicking on "logout" button.
Pre-condition	*The customer no longer wants to be logged in * A new customer wants to login in the same device.
Trigger	User is done using the website (pc or mobile devices).
Post-condition	Logout from the website.
Main scenario	1- User is done using the site. 2-The user clicks on the logout button. 3-The system logs the user out and saves the cookies. 4-the system redirects to the default homepage of the site to only view the products.
alternatives	The user will still be logged in unless he wants to logout and press the logout button.

Class Diagram



Sequential Diagram

