

TEAM MEMBER

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Project Description

RESIDENTIAL

A healthy air and a good temperature in the home are important for us to feel well. Systemair offers complete systems for home ventilation and air conditioning. Our air handling units with balanced ventilation and heat recovery are ideal for homes and small offices. In our air handling units, humidity and temperature control come as a standard.

MARINE, OIL AND GAS

Good ventilation is crucial to both comfort and safety on ships. It could be ventilation and air conditioning on cruise liners, cargo hold ventilation on freighters or exhaust air ventilation from engine rooms. Quality requirements are high, as conditions are challenging. Our systems meet all requirements and are marine-certified.

INDUSTRIAL PREMISES

Large factory areas need to be heated/cooled and ventilated. Our products evacuate impure air and ensure that working areas are kept at the right temperature. Our solutions help establish a healthy work environment, which in turn creates the conditions for higher productivity.

DATA CENTRES

With ever-increasing storage capacity and more compact equipment, there is a growing need for cooling in data centres. We supply both air handling units and precision cooling units (close control units), to provide energy and cost-efficient cooling in data centres.

MULTI-STOREY CAR PARKS

In multi-storey car parks, good ventilation is a safety issue. Our system of smoke extract fans meets strict requirements for carbon dioxide control and the evacuation of dangerous gases in the event of a fire. It can also deliver a reduction of up to 80 percent in energy consumption in day-to-day operation.

OFFICES AND HOTELS

With its wide range of ventilation and air conditioning products, Systemair creates a healthy and comfortable indoor climate. We also offer smoke extract fans and exhaust fans, along with other system solutions to meet specific customer requirements. Our air handling units, chillers and fans are certified by Eurovent.

PUBLIC AREAS AND SCHOOLS

Schools and public buildings require custom ventilation and air conditioning systems. With our extensive product range, we can create an optimal solution that contributes to a healthy indoor climate in public areas and helps to maintain the well-being of children at school all day.

HOSPITALS AND THE PHARMACEUTICAL INDUSTRY

Hospitals are demanding environments in terms of purity and temperature of the air. Right AC and ventilation systems, combined with our products and solutions, create an optimal indoor climate. The purity requirements are satisfied via hygiene-certified units and effective filters.

SWIMMING POOLS

Demands on ventilation in swimming pool halls are high. The indoor climate must be comfortable for guests, while continuous dehumidification will protect the building from moisture damage over time. Our products offer reliable, fully automated ventilation, dehumidification and heating as required – in the most economical way.

TUNNELS

Effective ventilation is a safety issue both during the construction phase of tunnel projects and when tunnels are in operation. Systemair's tunnel fans ensure not only good air quality but also smoke evacuation. Our products meet all fire safety requirements and are simple to maintain.



Paradise has an extensive range of products: air handling units from large central units to small residential units

with energy recovery, air conditioning products from air cooled or water cooled chillers/heat pumps to water

terminal units, fans including smoke extractor, tunnel/car park fans and explosion proof fans, air distribution

products and fire dampers.

These products are installed in a large variety of locations, including offices, shops, industrial buildings, healthcare

premises, tunnels, parking garages, training facilities, sport centres, homes etc.

Air conditioning

Paradise's air conditioning products are suitable for a wide variety of applications such as offices, shopping centers, schools, hotels, public transports, residential buildings, industries and Data centres.

Our extensive range includes everything from air-cooled and water-cooled chillers and heat pumps to rooftop units, water source heat pumps, water terminals, close control units and vertical air conditioners



Fans

Paradise has a wide range of fans that covers all your application areas, from small offices to large industrial applications.

Circular and rectangular duct fans, Roof fans,

High temperature fans, Explosion-proof fans, Plastic fans, Axial fans, Smoke extraction fans & pressure differential systems, Car park jet fans & control systems.



Air handling units

Paradise produces a wide range of air handling units for several applications, from small office to large industrial building. The full range has been developed to satisfy strict needs of low energy consumption.

Our range of AHUs includes modular and compact air handling units, as well as a range of products specially designed for residential applications.



Air distribution products

Paradise develops, produces and delivers air distribution products, diffusers and air flow control units. These components not only comply with the interior design requirements, but also make their own contribution to a pleasant indoor climate. Diffusers, grilles and air flow control.



Fire safety products

Paradise fire and smoke control dampers are used to minimize the property damage and help with evacuation of occupants. Smoke extract fans, Fire and smoke dampers.



Residential ventilation

Paradise's line of heat recovery ventilation units is ideal for homes, small offices and similar premises. They offer a high level of comfort both in terms of heating and clean air supply, along with significant energy savings.

Residential units and kitchen hoods.



Paradise Air Conditioning Laboratories

Test Room:

Air & Water Cooled Chiller
& Heat Pump room (600 kW)



Performance Test

Validate technical data under standard and severe conditions



Security Test

Eliminate any risk at start up



Reliability Test

Validate real life of the unit



Acoustic Test

Determine and decrease sound emissions



Component Test

Qualify new technology advanced components



Witness Test

Performance, Acoustic Part load and seasonal efficiency test



Accredited according
Eurovent references

Systemair laboratories Where ideas turn into solutions

Test Rooms

1 Air & water cooled chillers/heat pumps room (600 kW)

1 Air cooled chillers/heat pumps and Rooftops room (200 kW)

1 Calorimetric room

2 Acoustic rooms

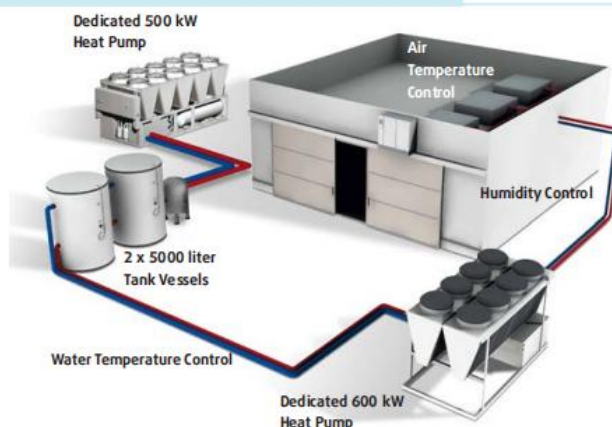
1 Reverberant room

1 End of line test room

2 Psychometric rooms

1 Aeraulic test room

1 Adiabatic room



Water temperature and air temperature are regulated thanks to a dedicated heat pump and an external cooling tower; the thermal inertia given by the 10.000 liter tanks assures tolerances within European Standard limits.

Initial identified customer requirements

- Selling air condition
- Maintance air condition
- Selling Spare parts
- managing transportation
- managing insurance
- managing the salaries of all employees
- Displaying the salaries of all employees
- Determining workplace of employees
- managing Maintance request
- managing lab request
- Displaying lab reports
- managing product transportation
- managing work teams
- Displaying Maintance report
- Accessing of camera
- monitoring work entry and departure time for employees
- user login
- Displaying shift time
- Applying legal actions
- Managing tool requests by Eng



Initial identified subsystems and function:

1) Security System:

- monitoring the camera system
- monitoring work entry and departure times for employees

2) Login System:

- show the user the correct interface based on his profession and position

3) Maintenance System :

- monitoring the repairs of machines and tools
- showing the location of machine that are defective
- showing the defective machine and their location

4) Transporting System:

- managing the transport of product

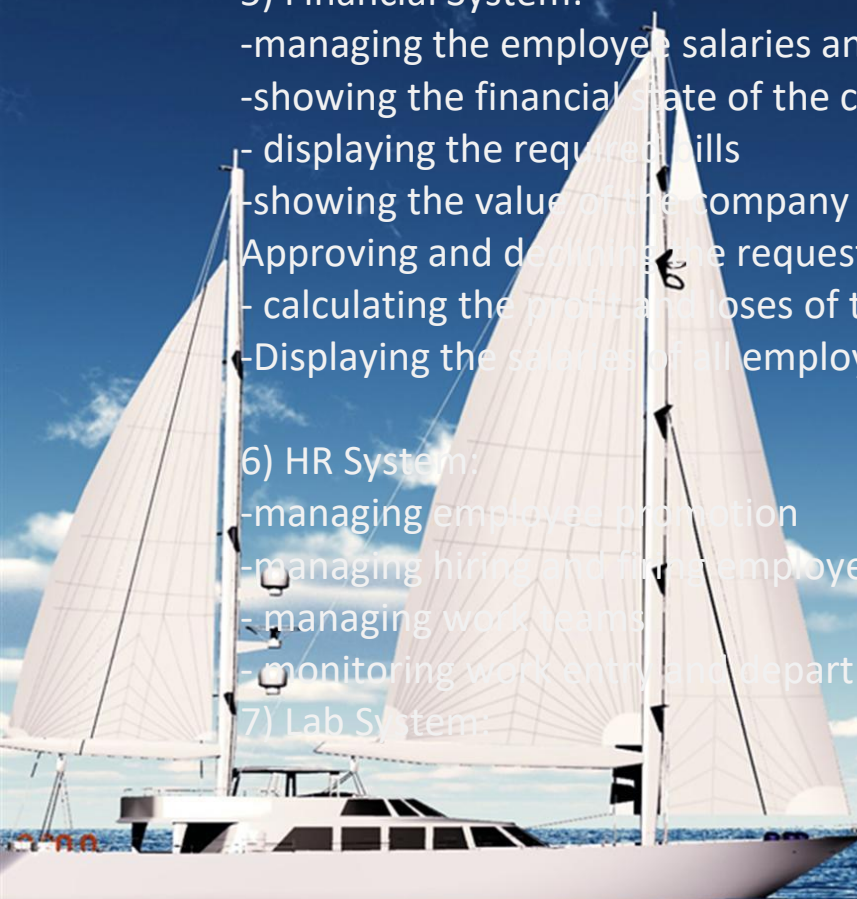
5) Financial System:

- managing the employee salaries and bonuses
- showing the financial state of the company
- displaying the requested bills
- showing the value of the company stocks in the stock market
- Approving and declining the request regarding purchase
- calculating the profit and losses of the company
- Displaying the salaries of all employees

6) HR System:

- managing employee promotion
- managing hiring and firing employees
- managing work teams
- monitoring work entry and departure times for employees

7) Lab System:



- Receive lab reports from technical
- Displaying lab reports

8)Insurance System:

- Managing insurance by receiving the bills submitted by the employees and showing them to the accountants

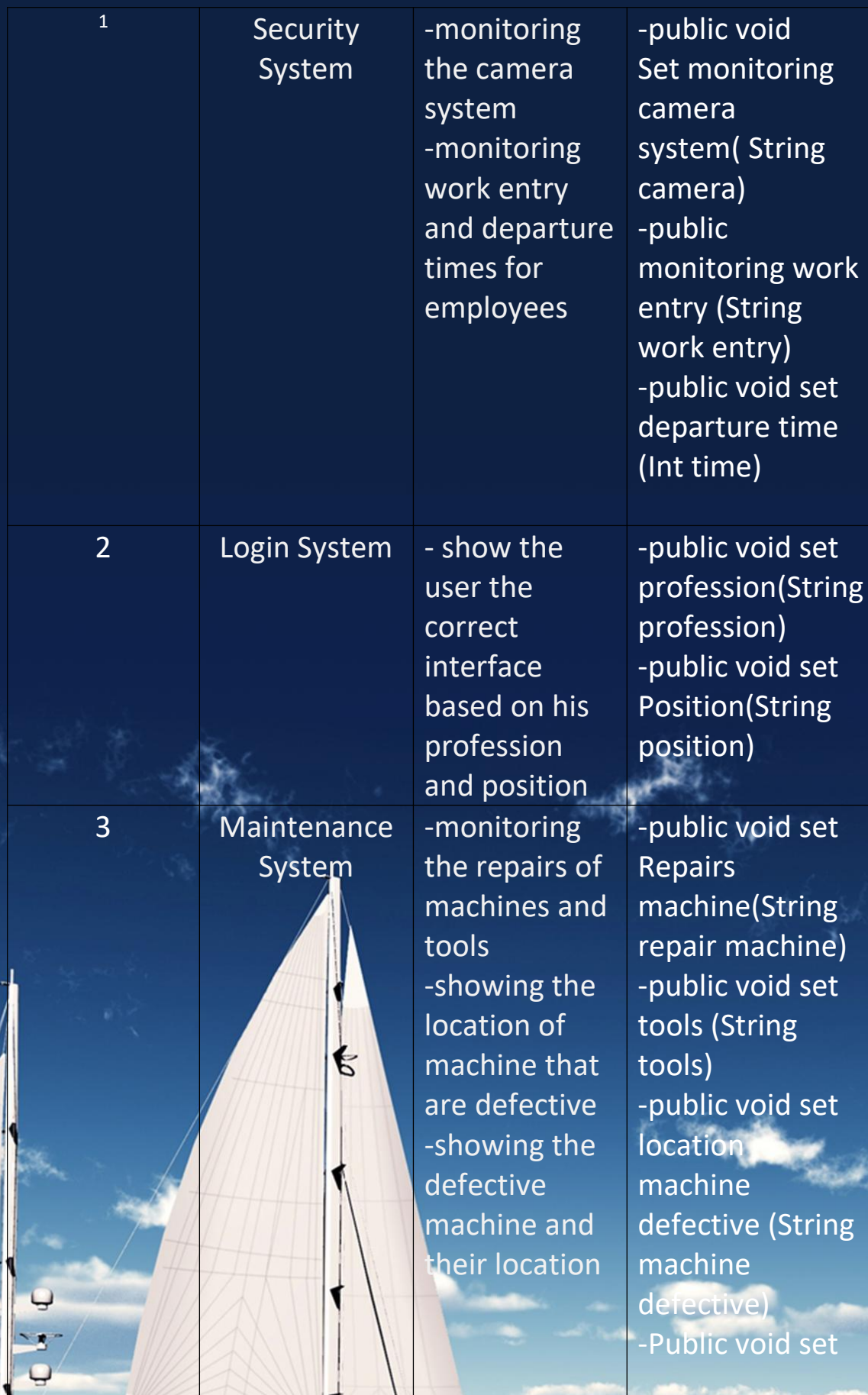
9)Legal affairs:

- Applying legal action

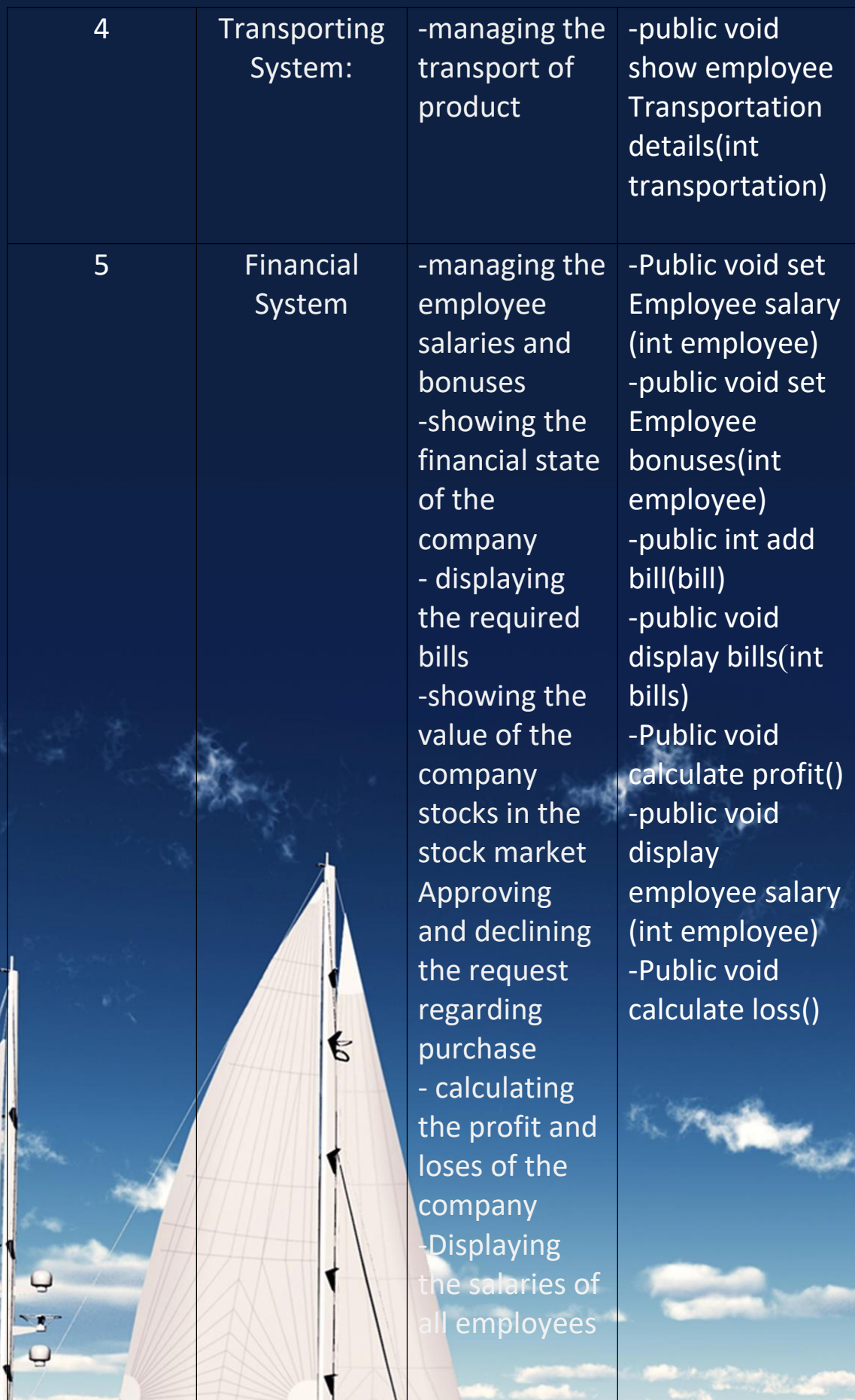
10)Request:

- managing employee request
- managing hiring request
- managing lab request
- managing tool request by Eng
- managing maintenance request

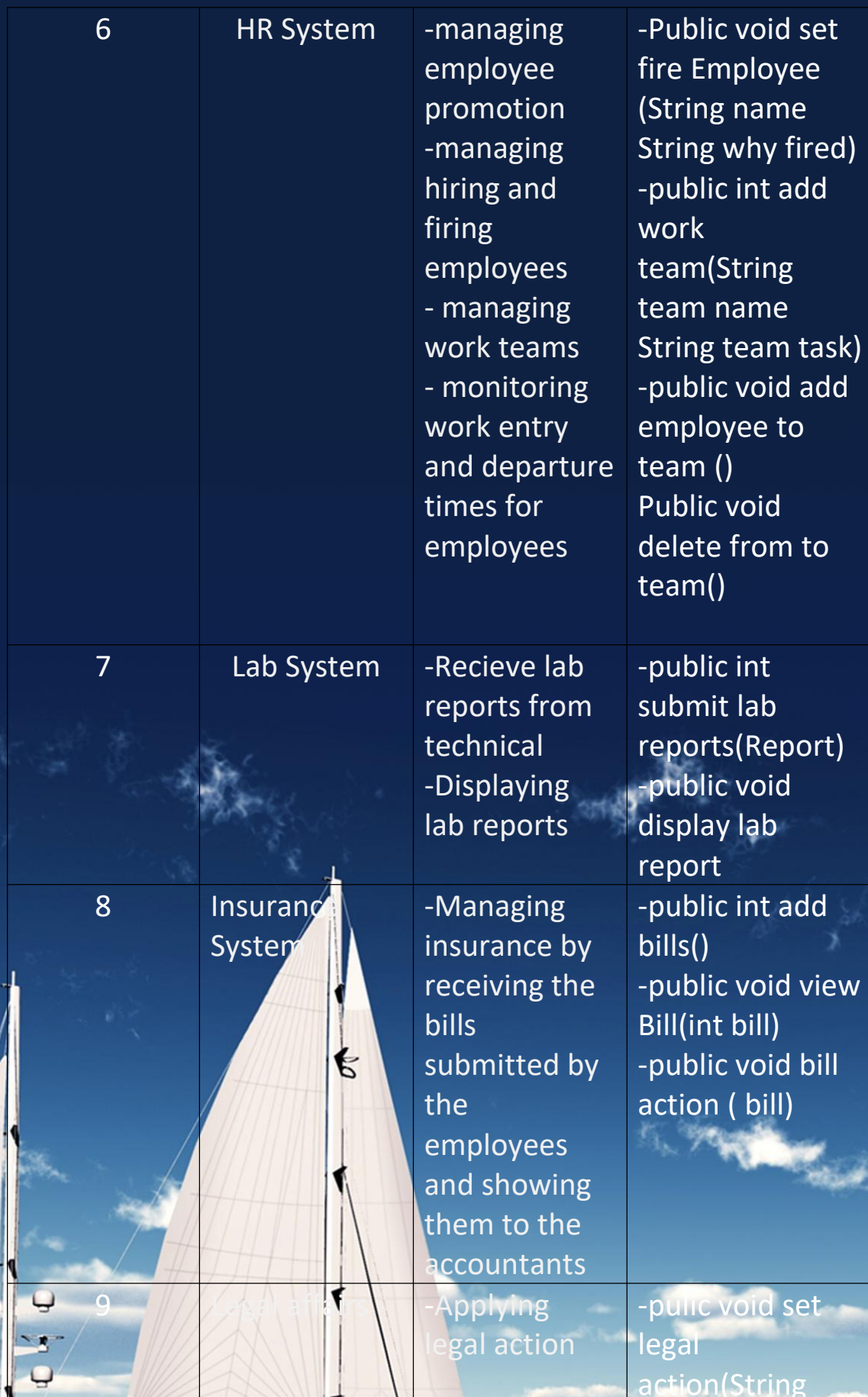




1	Security System	<ul style="list-style-type: none">-monitoring the camera system-monitoring work entry and departure times for employees	<ul style="list-style-type: none">-public void Set monitoring camera system(String camera)-public monitoring work entry (String work entry)-public void set departure time (Int time)
2	Login System	<ul style="list-style-type: none">- show the user the correct interface based on his profession and position	<ul style="list-style-type: none">-public void set profession(String profession)-public void set Position(String position)
3	Maintenance System	<ul style="list-style-type: none">-monitoring the repairs of machines and tools-showing the location of machine that are defective-showing the defective machine and their location	<ul style="list-style-type: none">-public void set Repairs machine(String repair machine)-public void set tools (String tools)-public void set location machine defective (String machine defective)-Public void set



4	Transporting System:	-managing the transport of product	-public void show employee Transportation details(int transportation)
5	Financial System	<ul style="list-style-type: none">-managing the employee salaries and bonuses-showing the financial state of the company- displaying the required bills-showing the value of the company stocks in the stock marketApproving and declining the request regarding purchase- calculating the profit and loses of the company-Displaying the salaries of all employees	<ul style="list-style-type: none">-Public void set Employee salary (int employee)-public void set Employee bonuses(int employee)-public int add bill(bill)-public void display bills(int bills)-Public void calculate profit()-public void display employee salary (int employee)-Public void calculate loss()



6	HR System	-managing employee promotion -managing hiring and firing employees - managing work teams - monitoring work entry and departure times for employees	-Public void set fire Employee (String name String why fired) -public int add work team(String team name String team task) -public void add employee to team () Public void delete from to team()
7	Lab System	-Recieve lab reports from technical -Displaying lab reports	-public int submit lab reports(Report) -public void display lab report
8	Insurance System	-Managing insurance by receiving the bills submitted by the employees and showing them to the accountants	-public int add bills() -public void view Bill(int bill) -public void bill action (bill)
9	Legal affairs	-Applying legal action	-pulic void set legal action(String

			legal action)
10	Request	-managing employee request -managing hiring request -managing lab request -managing tool request by Eng -managing maintenance request	-public void set maintenance request (String type maintenance request) -public void set Tool request(String tool request) -public void



List of user requirement of function and non function

Function	Non Function
Selling Air Condition	Accessing of camera
Maintance Air condition	
Selling Spare parts	
Managing transport	
Managing insurance	
Managing the salaries of all employees	
Determining workplace of employees	
Managing Maintance request	
Displaying the salaries of all employees	
Managing lap request	
Displaying lap report	
Managing product transportation	
Managing work teams	
Displaying Maintance report	
User Login	
Displaying shift time	
Applying legal action	
Managing tool request by eng	
Monitoring work entry and departure time for employees	

Page 1

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Paradise

Sign In

User Name:

Password:

position

Engineer

Manager

Technicals

Accountant

User

Once you open the website, you should select if you are a user, engineer,manger,technical , accountant
Then you should enter your email and password if you already have an account but if you don't you should select sign up

SIGN IN

[Forgot Password?](#)

New User

SIGN UP



Page 1

paradise.com

Email address

Password

Address

Rewrite Password

Mobile no.

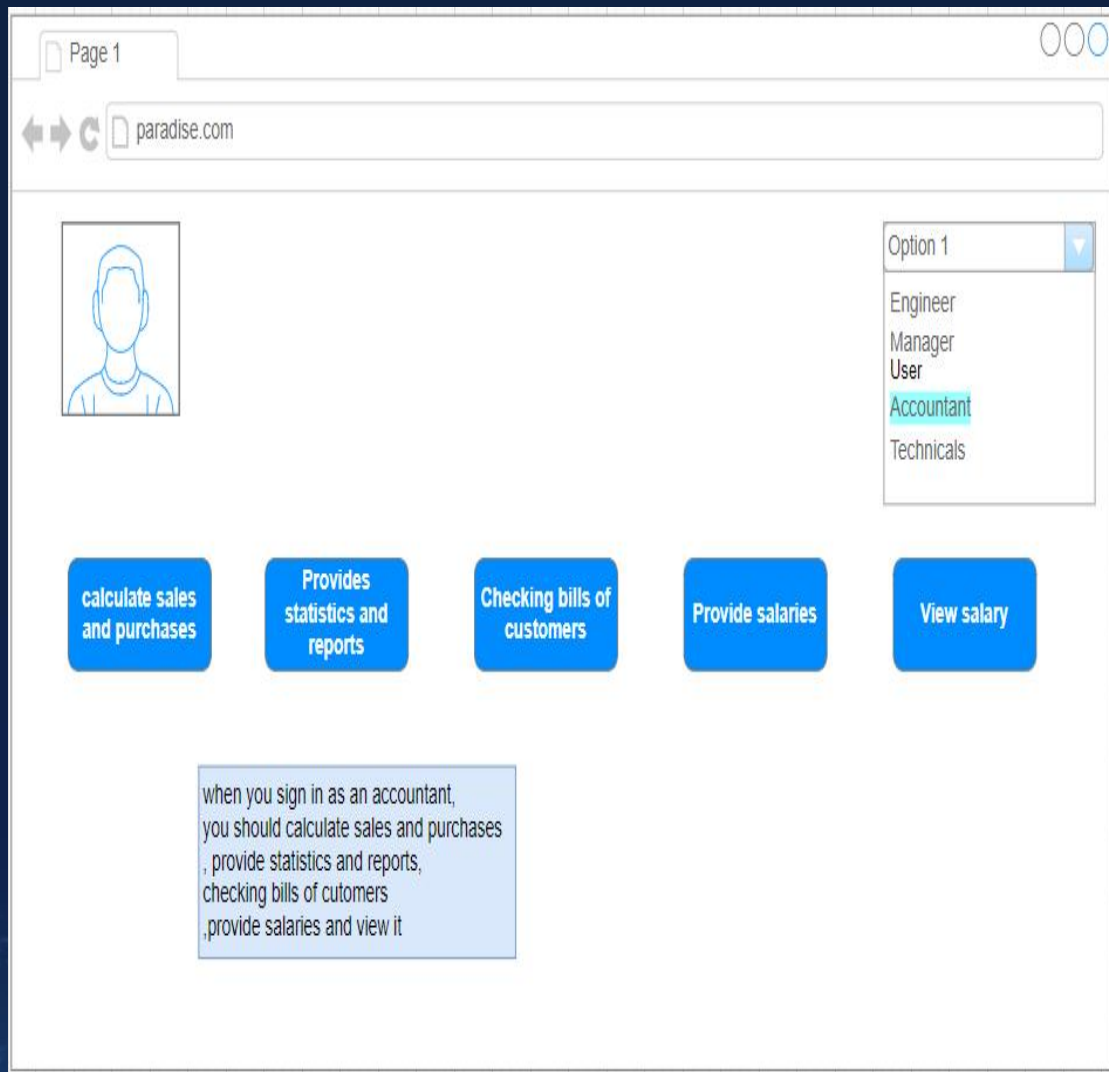
Age

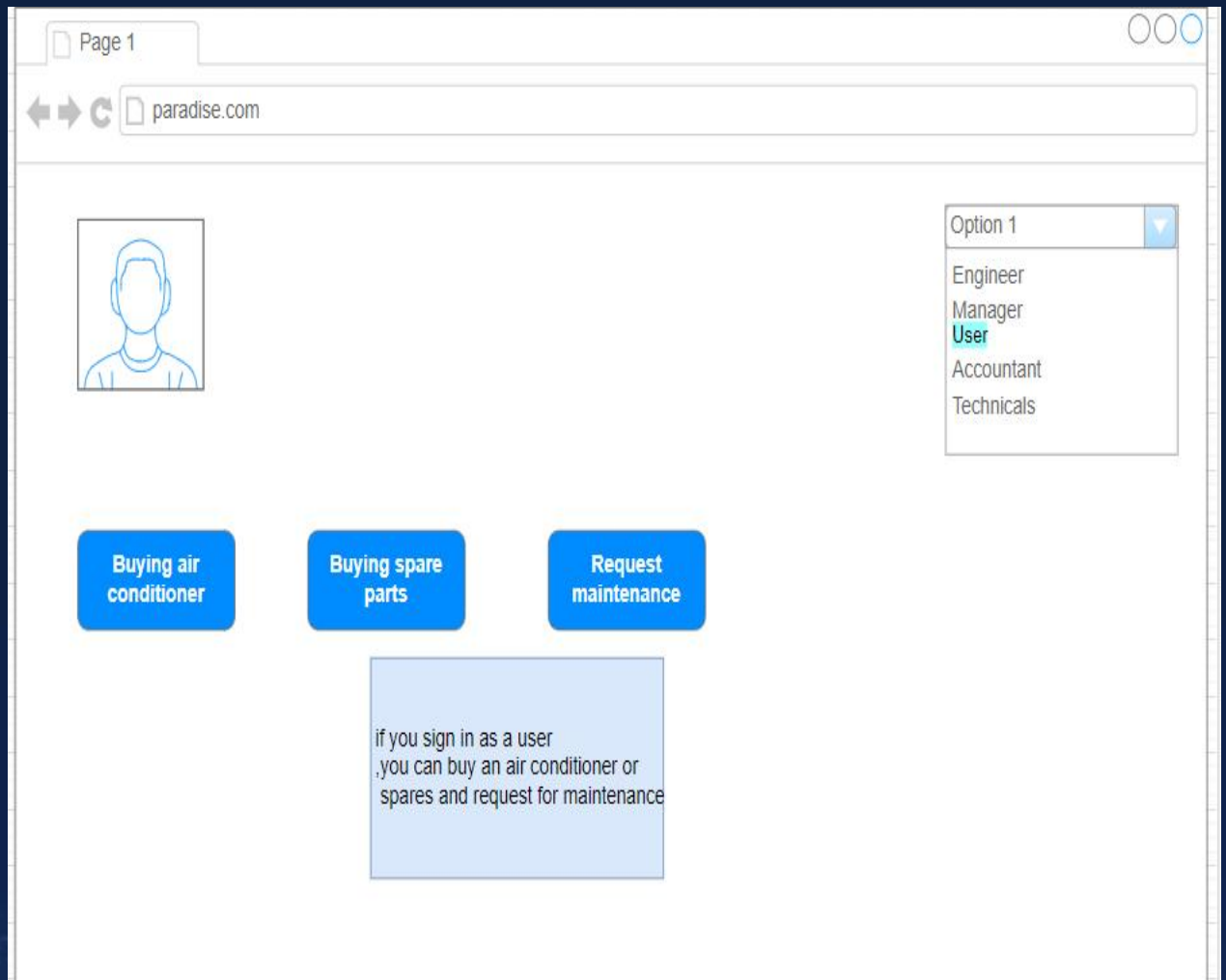
City

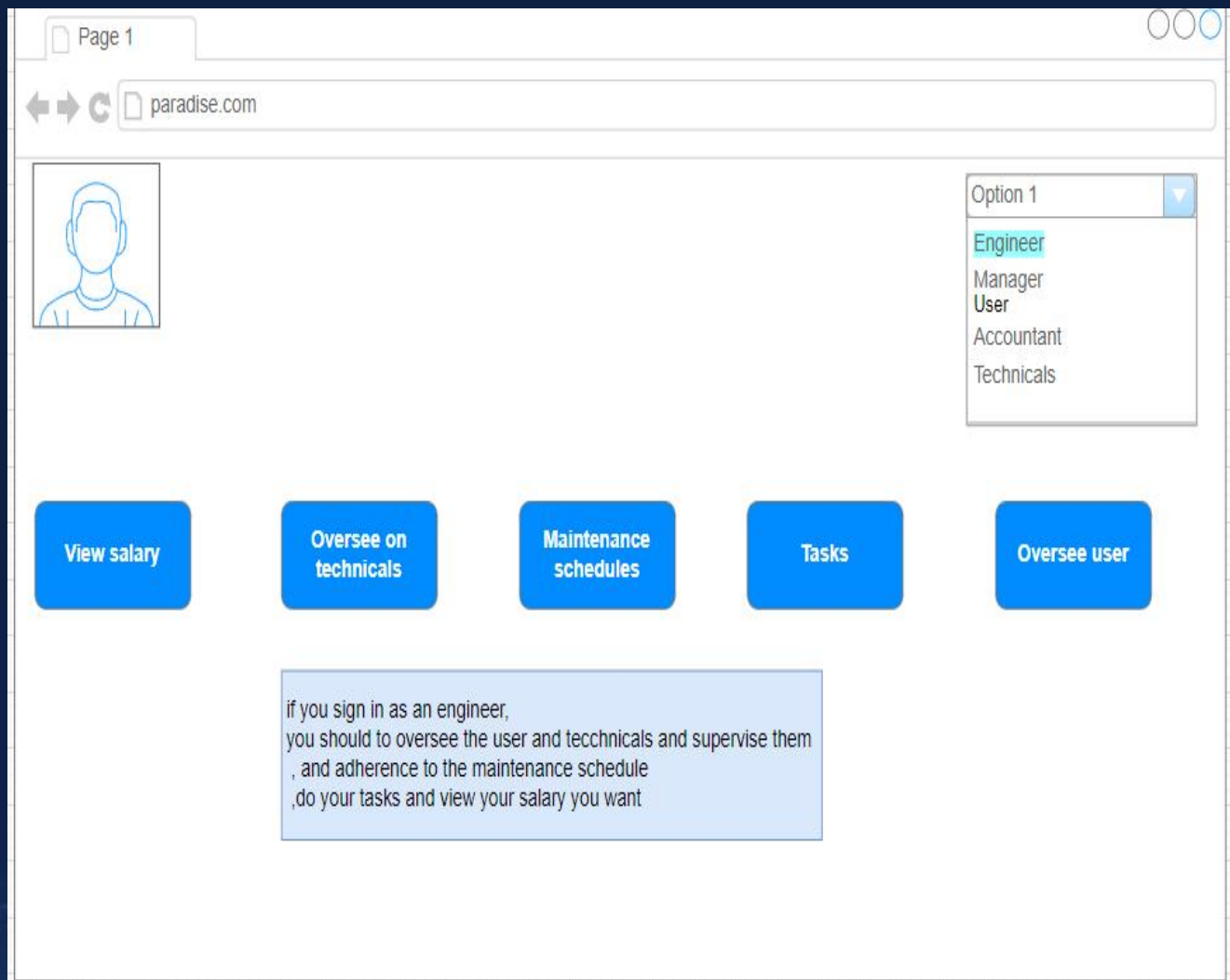
when you are a new user you should fill all the information needed to make an account

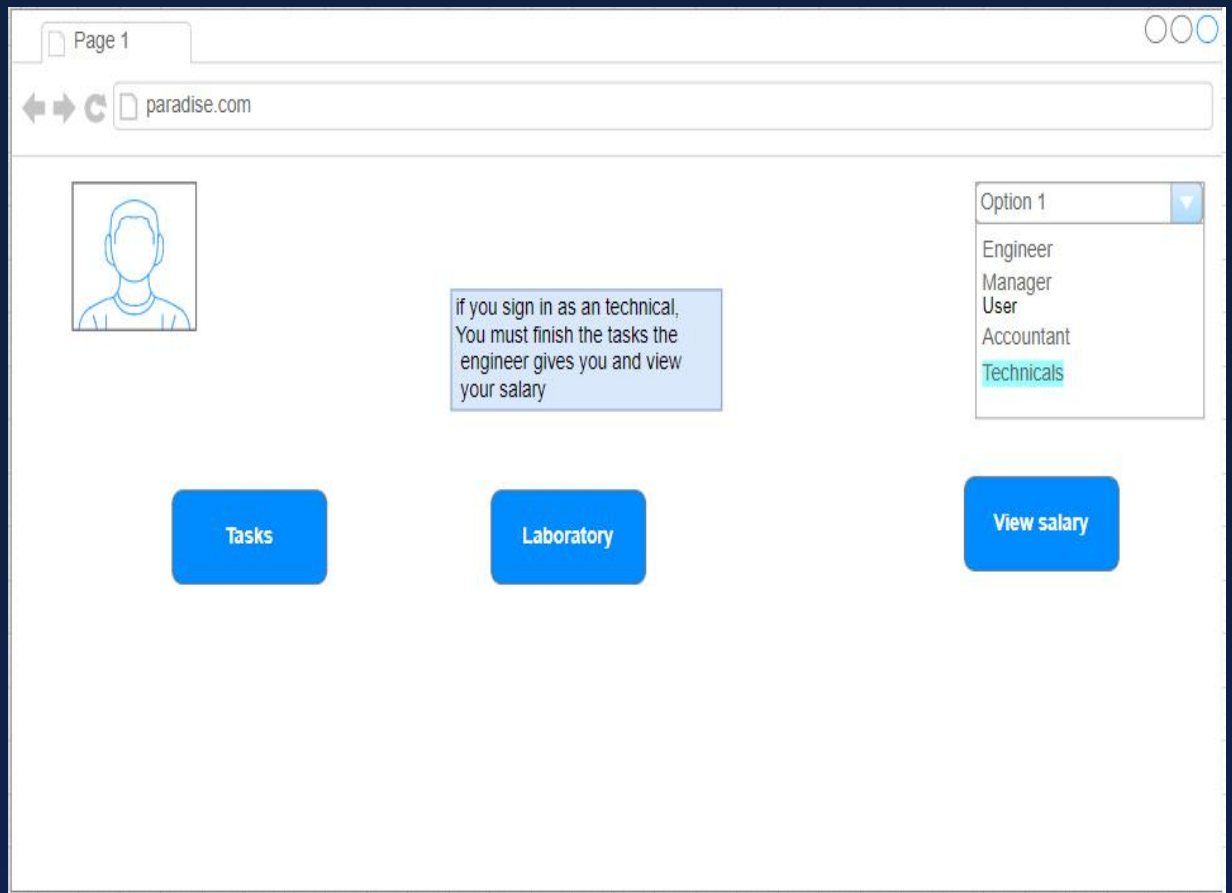
sign up

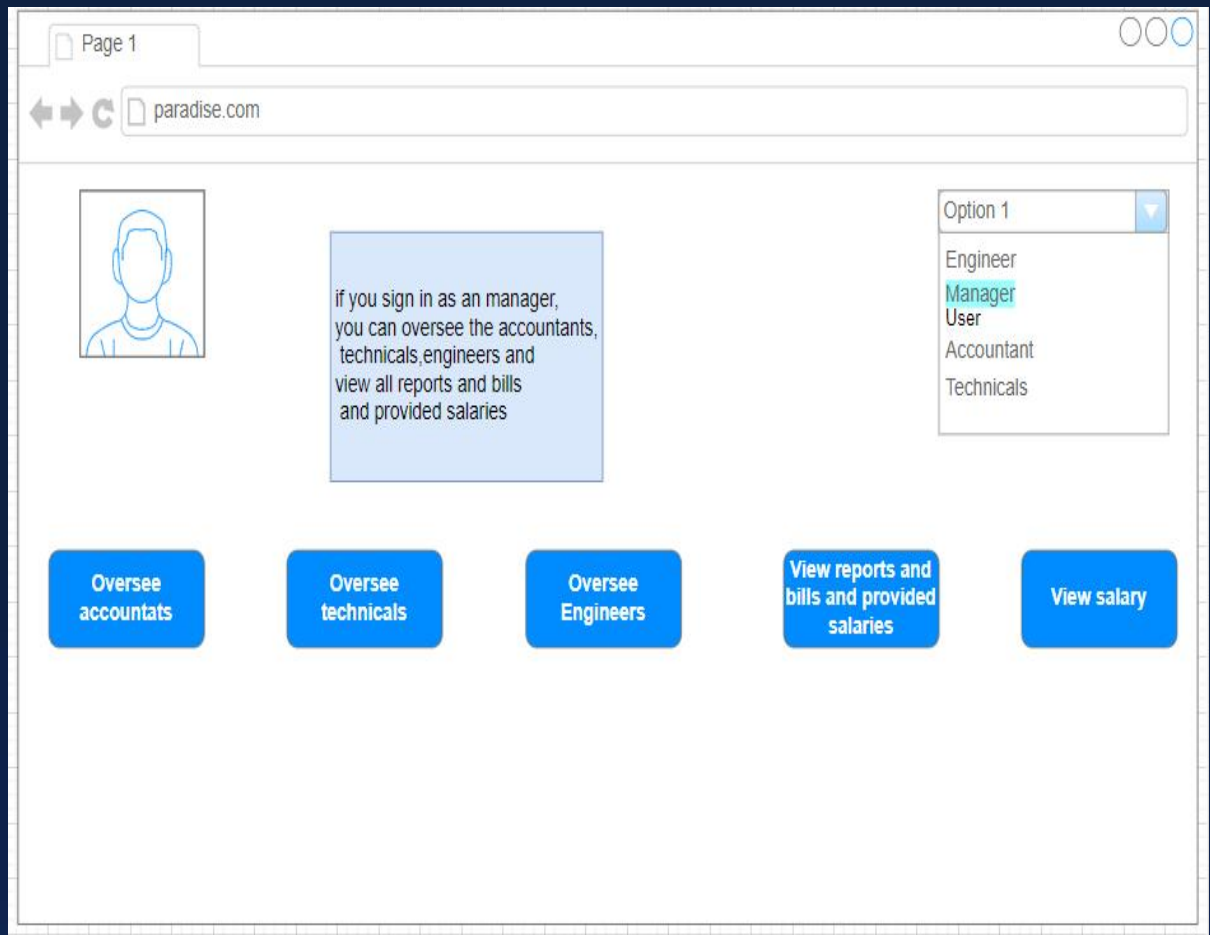


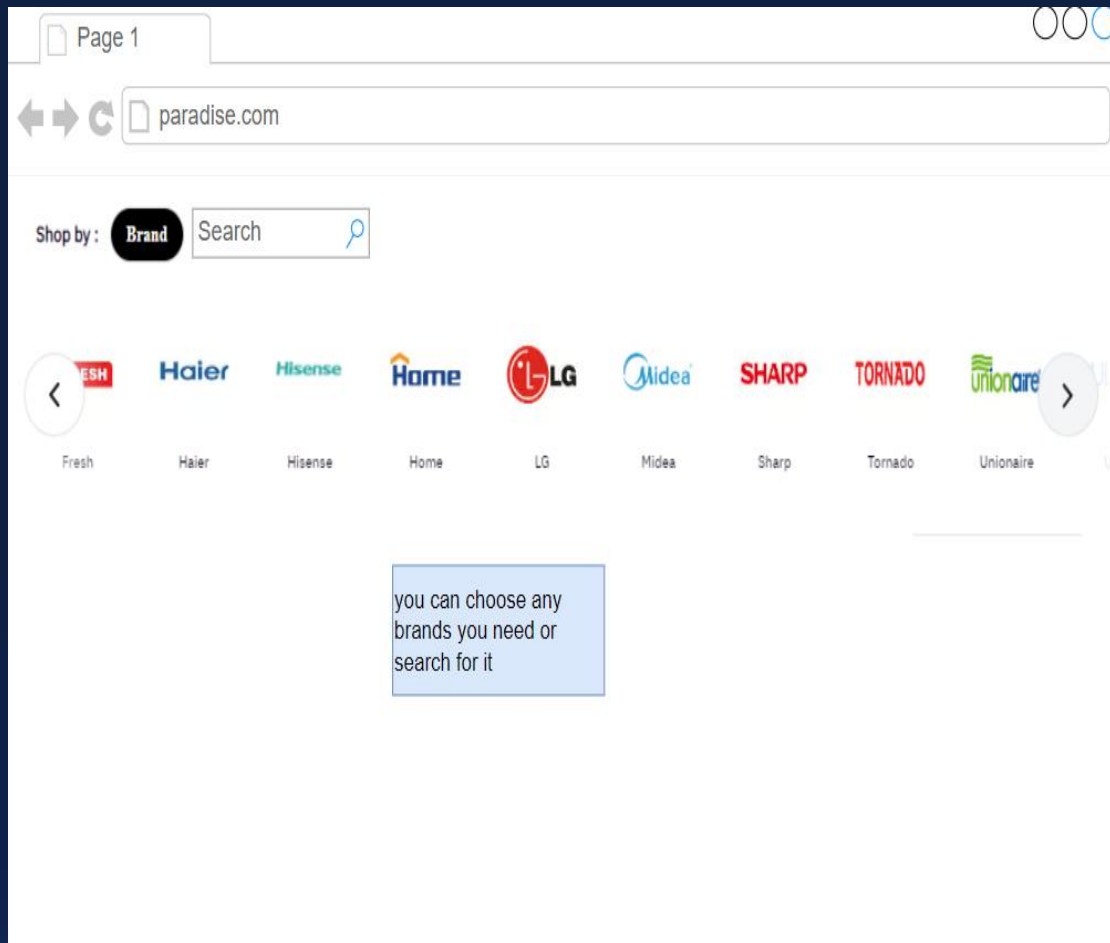














Page 1

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Air Cooled Chillers, Heat Pumps & Condensing units




SYSHP MINI 07-16
 6.3-13.8 kW
 6.7-16.2 kW
 R32
 Twin rotary Inverter
 Plate
 Domestic Hot Water
 DC Motor
 Page 28




SYSHP MINI SPLIT 06-16
 7.0-14.0 kW
 6.35-16.0kW
 R32
 Twin rotary Inverter
 Plate
 Domestic Hot Water
 DC Motor
 Page 30




SYSCROLL 20-30 AIR EVO HP
 20-36 kW
 20-34 kW
 R410A
 Scroll Inverter
 Plate
 Domestic Hot Water
 Page 32




SYSAQUA BLUE L/H
 31.7 kW
 35.4 kW
 R290
 Scroll
 Plate
 Page 34




SYSAQUA 20-40 L/H/RE
 19-39 kW
 20-42 kW
 R410A
 Scroll
 Plate
 Page 36




SYSAQUA 45-125 L/H/RE
 45-122 kW
 49-119 kW
 R410A
 Scroll
 Plate
 Page 40




SYSAQUA R32 50-130 L/H
 50-115 kW
 53-130 kW
 R32
 Scroll
 Plate
 Page 44




AQVL/AQVH/AQVC 85-140
 83-137 kW
 92-147 kW
 R410A
 Scroll
 Plate
 Page 46




SYSAQUA R32 150-170 L/H
 153-176 kW
 156-182 kW
 R32
 Scroll
 Plate
 Page 52




SYSAQUA 140-210 L/H
 125-208 kW
 144-218 kW
 R410A
 Scroll
 Plate
 Page 54




SHARP Split Air Conditioner
 1.5 HP Cool + Heat Inverter
 DC Inverter, R410A, Plasma
 Filter, 3000 BTU/H
 18,210 BSP




TOSHIBA Split Air Conditioner
 1.5 HP Cool
 Inverter, R410A, Plasma
 Filter, 3000 BTU/H
 18,800 BSP




TOSHIBA Split Air Conditioner
 1.5 HP Cool
 Inverter, R410A, Plasma
 Filter, 3000 BTU/H
 11,840 BSP




TOSHIBA Split Air Conditioner
 1.5 HP Cool
 Inverter, R410A, Plasma
 Filter, 3000 BTU/H
 20,370 BSP




SHARP Split Air Conditioner
 2.5 HP Cool + Heat Inverter
 DC Inverter, R410A, Plasma
 Filter, 5000 BTU/H
 27,390 BSP



TOSHIBA Split Air Conditioner
 2.5 HP Cool
 Inverter, R410A, Plasma
 Filter, 5000 BTU/H
 16,800 BSP



TOSHIBA Split Air Conditioner
 2.5 HP Cool
 Inverter, R410A, Plasma
 Filter, 5000 BTU/H
 16,800 BSP



TOSHIBA Split Air Conditioner
 2.5 HP Cool
 Inverter, R410A, Plasma
 Filter, 5000 BTU/H
 16,800 BSP

We offer a wide range of online air conditioner to assist in choosing the product or system best suited to your specific needs.

Page 1

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Price

Clear all

From

1999.00

To

55960.00

SET

☐ 0 EGP - 10,000 EGP (20)

☐ 10,000 EGP - 20,000 EGP (24)

☐ 20,000 EGP - 30,000 EGP (11)

☐ 30,000 EGP - 40,000 EGP (3)

☐ 40,000 EGP - 50,000 EGP (4)

☐ 50,000 EGP - 60,000 EGP (1)

Filter Type

☐ Unidentified (17)

☐ Anti Dust Filter (11)

☐ Carbon (4)

☒ HEPA (7)

☐ Plasma (13)

☐ Anti-Bacterial (2)

☐ Plasmacluster Ion Filter (6)

☐ EZ sliding filter (3)

Horsepower

☐ Unidentified (15)

☐ 1.5 (23)

☐ 2.25 (15)

☒ 3 (1)

☐ 4 (3)

☐ 5 (1)

☐ 6 (1)

☐ 4.5 (2)

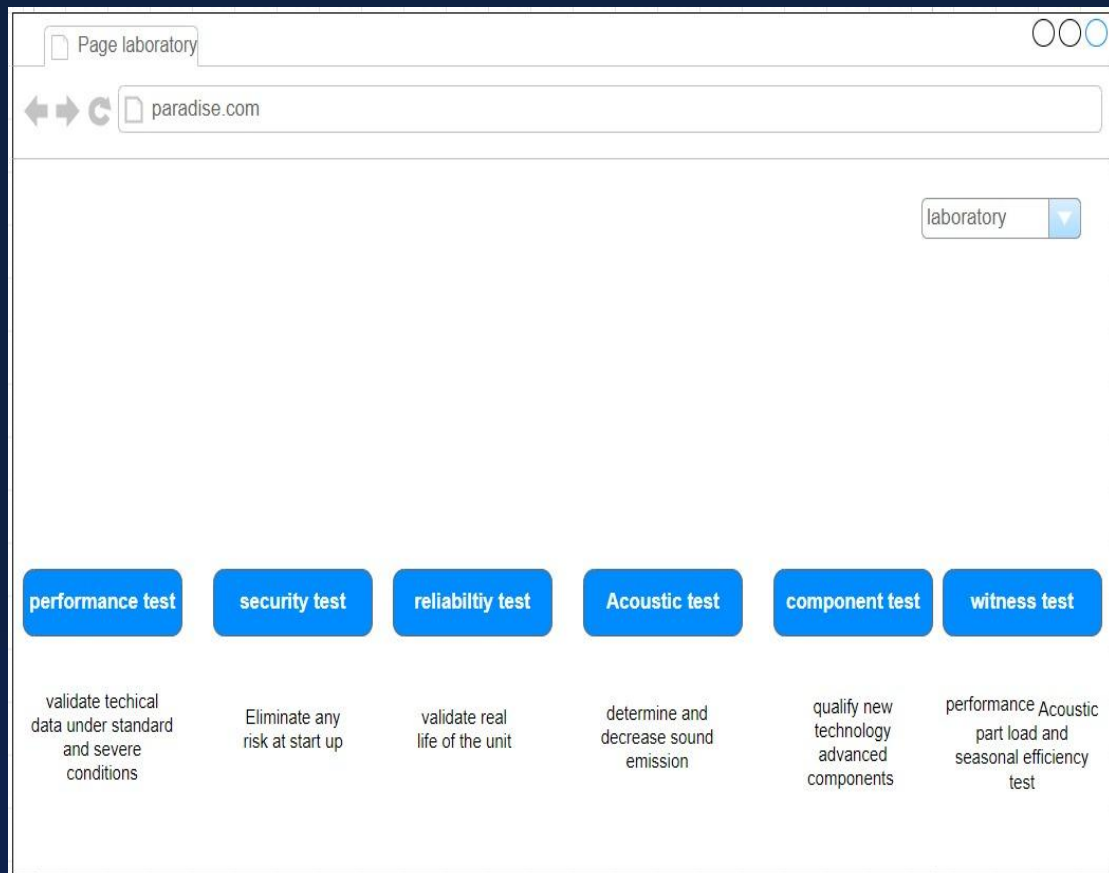
you can set your budget you want to pay, you can choose the horsepower of the air conditioner and all the Specifications of the brand you want

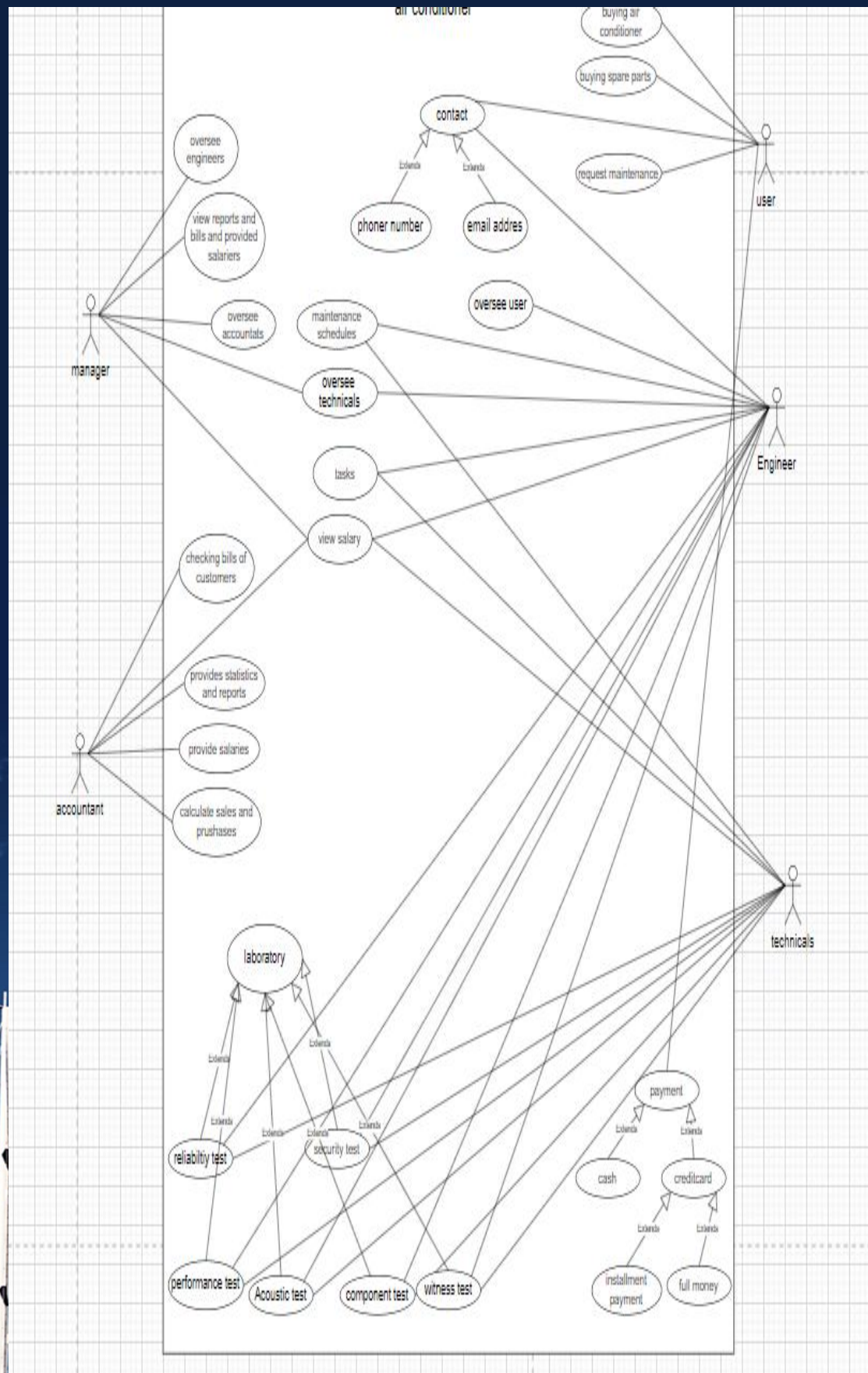


COMPRESSOR ALTERNATOR	BLOWER FAN	CONTROL PANEL CONTROL BOX FUSE BOX / PTC	EXPANSION VALVE GAS LIQUID SEPARATOR RESERVOIR/FILTER DRYER	DRAIN PIPE / FITTING RUBBER HOSE CORRUGATED HOSE	HEAT EXCHANGER FOUR WAY VALVE OUT-OFF VALVE	OTHER COMPONENTS	

you can also buy spare parts install it through the technicals







Use case	Buying air conditioner
Goal context	Purchasing an air conditioner successfully
precondition	The air conditioner is in stock
Success end condition	Air condition is provided
Primary actor	user
Secondary actor	engineer
trigger	User selects the brand and the features of air conditioner he wants

Use Case	Online purchase
Goal in context	Pay the estimated cost for confirmation
Precondition	The system must be fully configured; appropriate user ID and passwords must be obtained
Success End condition	The online purchase is completed successfully
Primary actor	Costumer
Secondary actor	System
Trigger	The user wants to make an online purchase

Use case	Maintenance Air condition
Goal and context	Maintenance the air condition for the user
Precondition	The User must have Air condition and technical can repairs
Success end condition	The technical repairs it
Primary actor	User
Secondary actor	Technical and engineer
Trigger	The customer request Maintance for his air condition

Use case	Buying spare parts
Goal context	Purchasing an spare parts successfully
precondition	The spare parts is in stock
Success end condition	Spare parts is provided
Primary actor	user
Secondary actor	engineer
trigger	User selects the brand and the features of spare parts he wants

Use case: buying air conditioner

Actor actions

- 1.user indicates that he wants to search for specific air conditioner
- 2.user selects the product category and optionally the desired brand and model
- 4.user selects a specific air conditioner and then specifies the desired quantity
- 6.user selects the method of payment and enters the corresponding account information

system reactions

- 3.system displays search results that match the user supplied criteria
- 5.system confirms availability of the product
- 7.system interacts with the payment authorization system to carry out the payment
- 8.system informs that the order has been confirmed



Use case: buying spare parts

Actor actions

- 1.user indicates that he wants to search for specific spare parts
- 2.user search the spare parts that suit for his air condition
- 4.user selects a specific spare parts
- 6.user selects the method of payment an enters the corresponding account information

system reactions

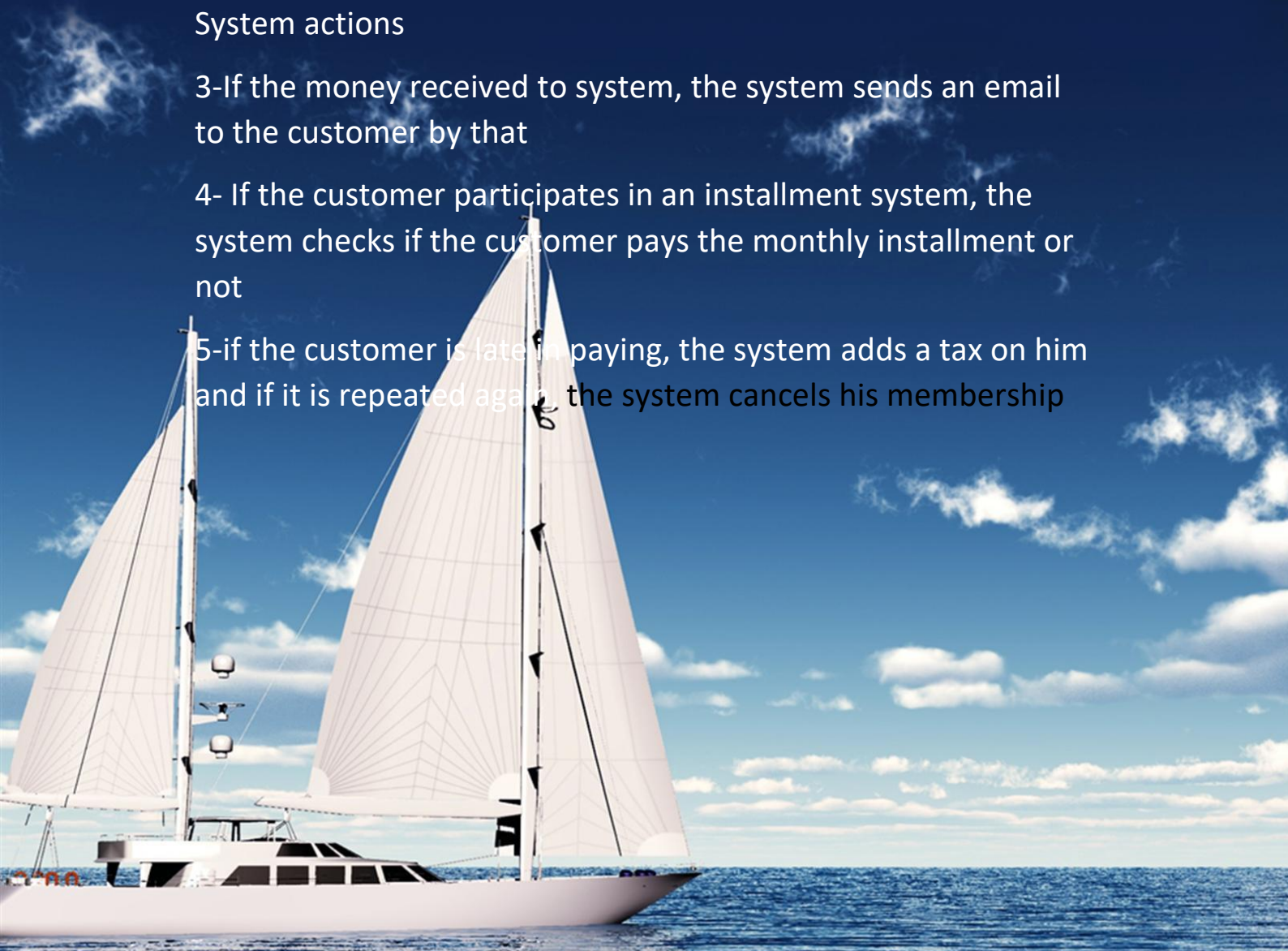
- 3.system displays search results that match the user supplied criteria
- 5.system confirms availability of the product

Customer actions

- 1-The customer must use his credit card for payment
- 2-Customer check if the money received to the system or not

System actions

- 3-If the money received to system, the system sends an email to the customer by that
- 4- If the customer participates in an installment system, the system checks if the customer pays the monthly installment or not
- 5-if the customer is late in paying, the system adds a tax on him and if it is repeated again, the system cancels his membership



Actor actions

- 1 .user indicate that he want Maintance his air condition
2. user contact with the engineer
- 6.User select the method of payment

System reaction

- 3.the engineer take look with technical on the air condition and see where are the problem
- 4.If the technical can repairs it the technical see in the stock if spare part for this model available or not
- 5.If it available the engineer put deadline for the technical to finish his task
7. once technical finish his task the engineer per review on the technical



S.S	S.A.C	M.A.C	S.S.S	M.T	M. I	M.S.A	D. S.A	D.W.E	M.M.R	M.L.R	D.L.R	M.P.T	M.W.T	D.M.R	A.C	U.L	D.T	A.L	M.T
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
L.S	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
M.S	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
T.S	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
F.S	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
HR	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
Lab	0	1	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0
I.S	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Legal.A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
request	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1



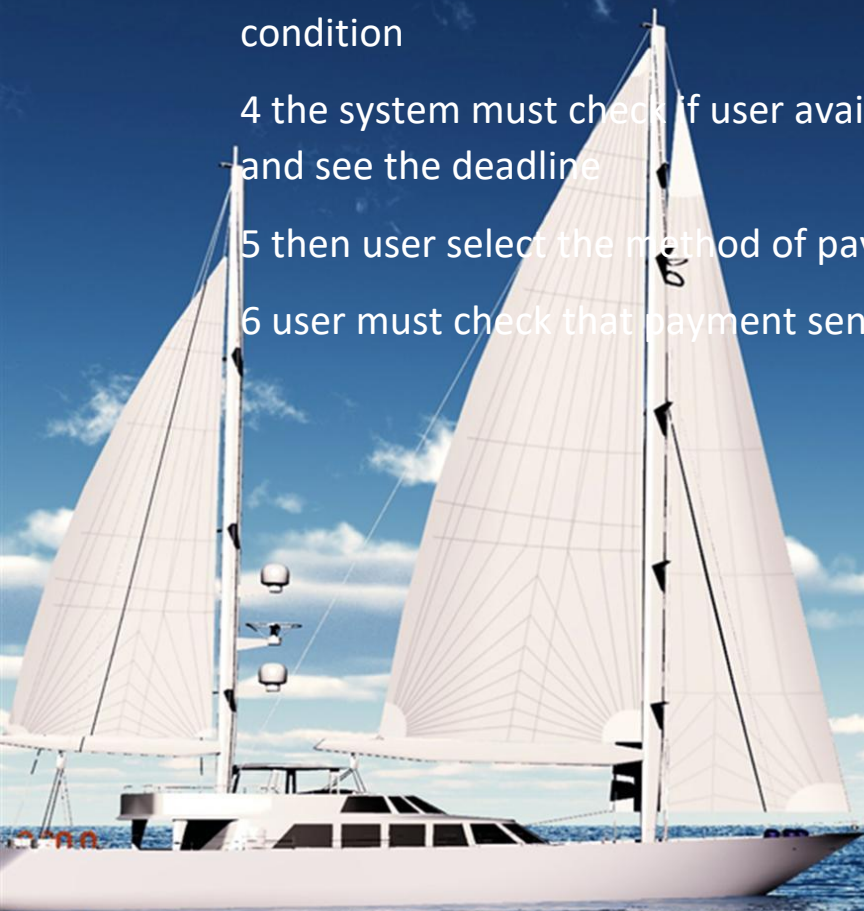
Use case :buying spare parts

Test Requirement:

- 1 user try to buy spare part that he want it
- 2 the system must check if the spare part are available or not
- 3 the system must check if the spare part fit to the air condition or not
- 4 the system confirm on the user request
- 5 the system check if the confirmation sent to the user or not

Use case :buying air condition

- 1 user see the available air condition and choose it
- 2 the user must check that is request sent or not
- 3 the system put deadline for the user to deliver the air condition
- 4 the system must check if user available for this time or not and see the deadline
- 5 then user select the method of payment
- 6 user must check that payment sent to the system

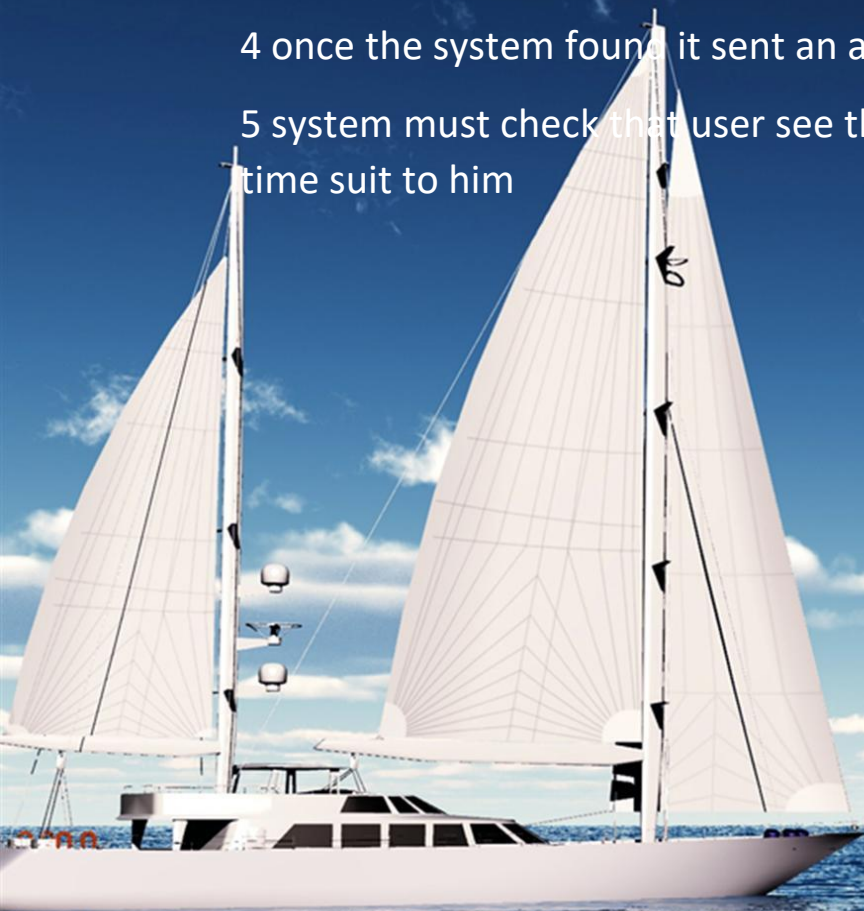


Use case:online purchase

- 1 the customer must use his credit card for payment
- 2 customer must check if the money sent to the system or not
- 3 if the money received to the system the system sent validation email to the customer
- 4 if the customer participate in an installment system,the system check if the customer pay the monthly installment or not
- 5 if the customer is late in paying,the system adds a tax on him and if its is repeated again,the system cancels his membership

Use case: request Maintance

- 1 the user sent request to the system that he want Maintance
- 2 the user must check that the request sent to the system
- 3 the system see the empty days in scheduling to can sent technical to the user
- 4 once the system found it sent an appointment to the user
- 5 system must check that user see the appointment and the time suit to him



System Rules

1 the user must have an password and user name and it must be correct

2 the password must contain alphabetical letter in the first and the seven number

3 if the customer want installment he must have membership

4 if the customer is late in paying more than 5 days we sent him warning and he is late more than 15 days we put on him tax's and if it repeat the membership is canceled

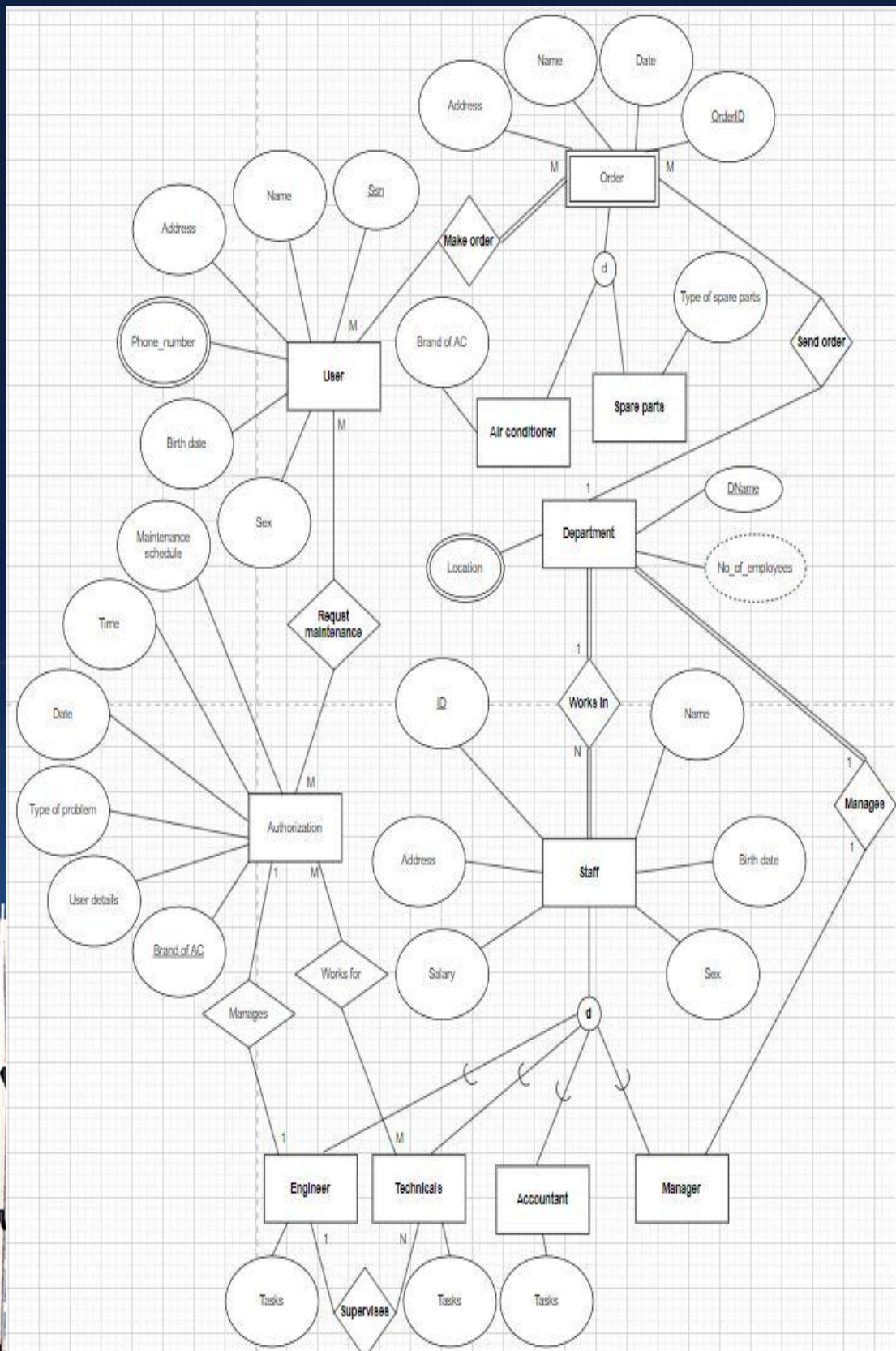
5 once the user buy the air condition or spare part he have guarantee 5 years

6 if the air condition have a problem and the user repairs it out of official authorization automatically the guarantee falls

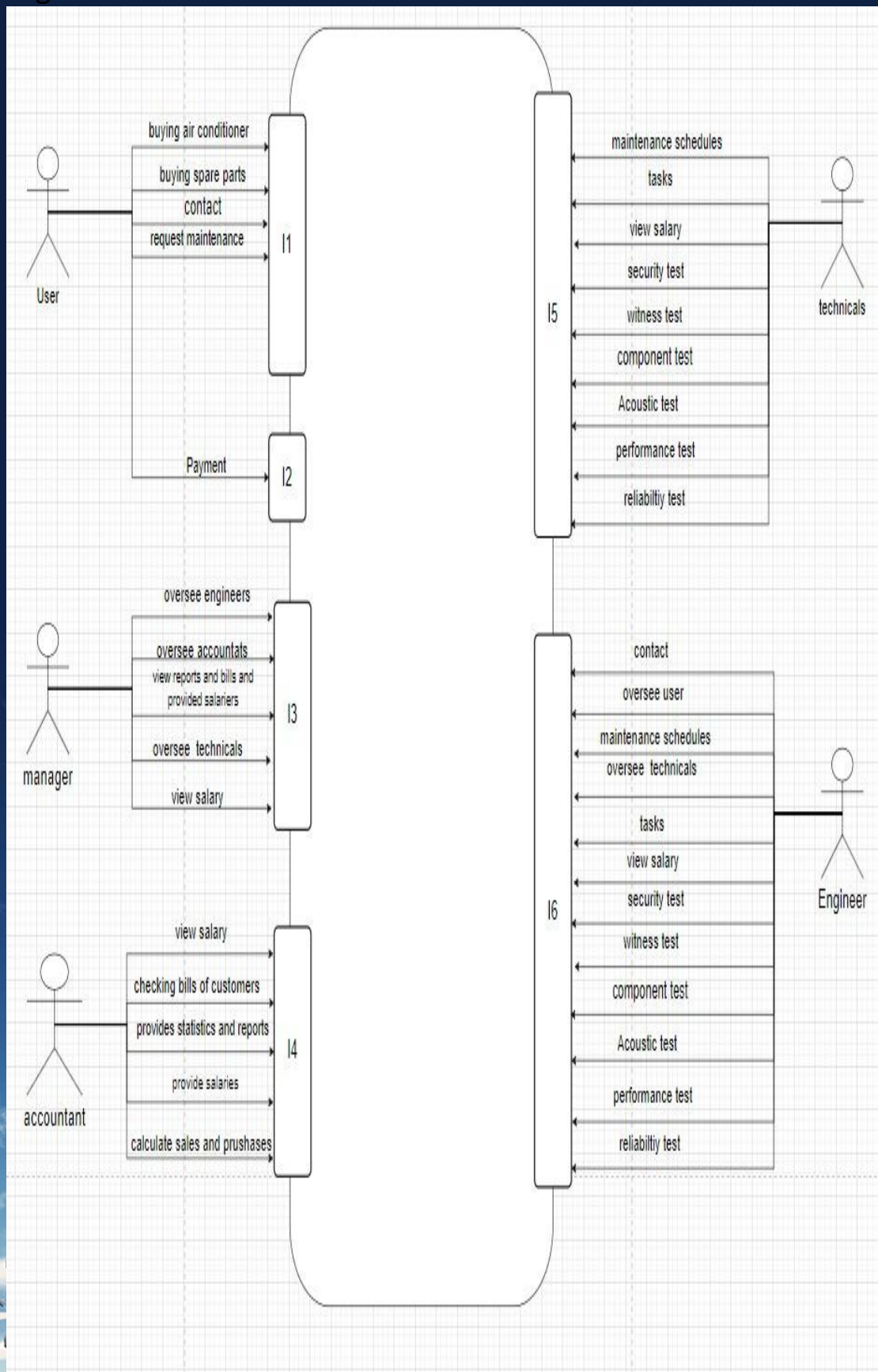
7 if the guarantee finished and the customer repairs the air condition out of the official authorization he can repairs it again in the official authorization



ERD Digram



aACD Digram



Interface 1: order interface

Public void contact ()
Public Boolean buying air conditioner (String buying)
Public Boolean buying spare parts (String buying)
Public Boolean request maintenance (String maintenance)

Interface 2: payment interface

Public Boolean make payment (int pay)

Interface 3: manager editing interface

Public Boolean oversee engineers (String name engineer)
Public Boolean oversee accountants (String name accountant)
Public void view reports and bills and provided salaries ()
Public Boolean oversee technicals (String technical)
Public Boolean view salary (String staff name)

Interface 4: accountant customer interface

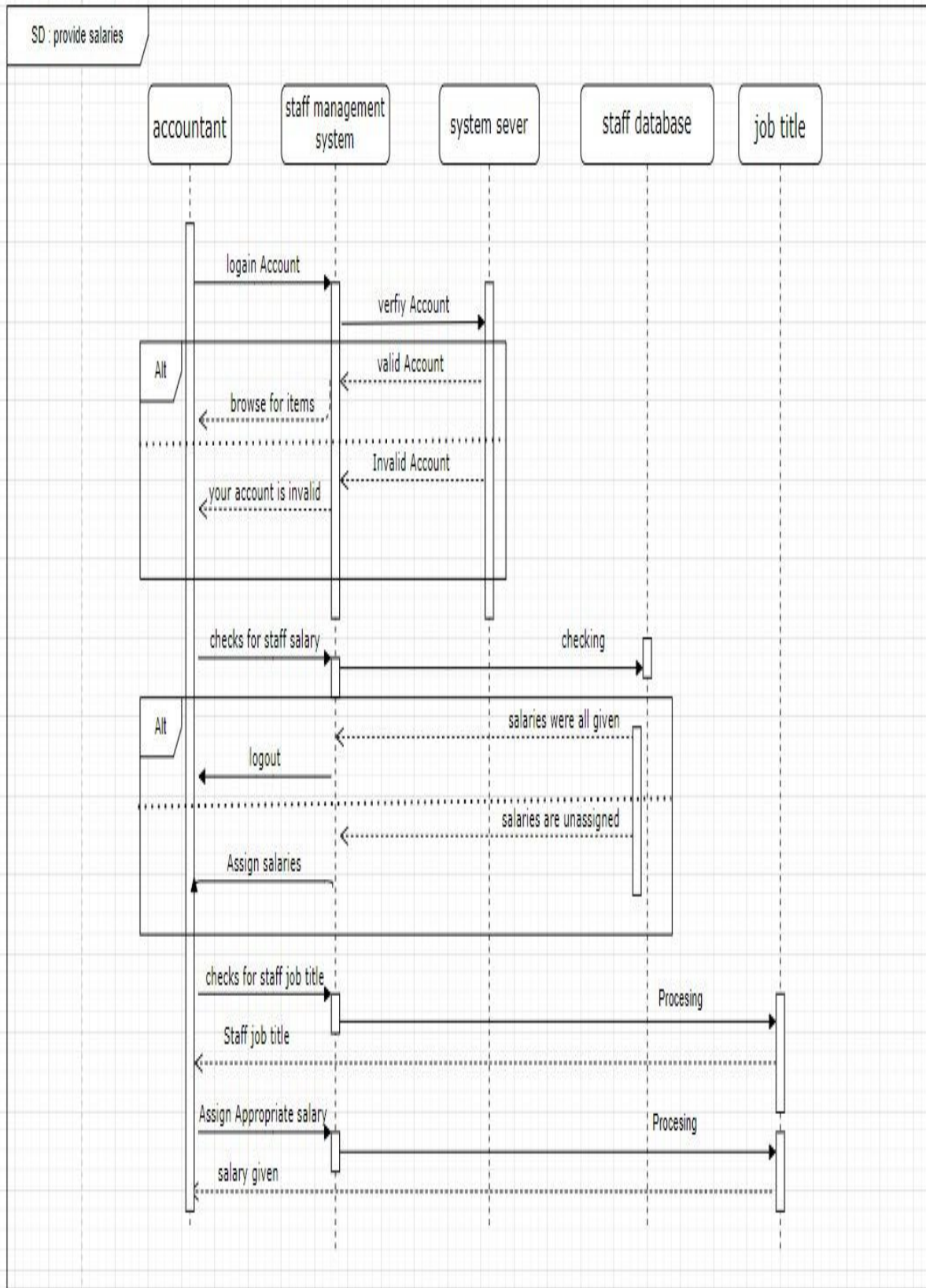
Public Boolean view salary (String staff name)
Public Boolean checking bills of customers (String bills of customer)
Public void provides statistics and reports ()
Public Boolean provide salaries (int salary)
Public Boolean calculate sales and purchases (int sales)

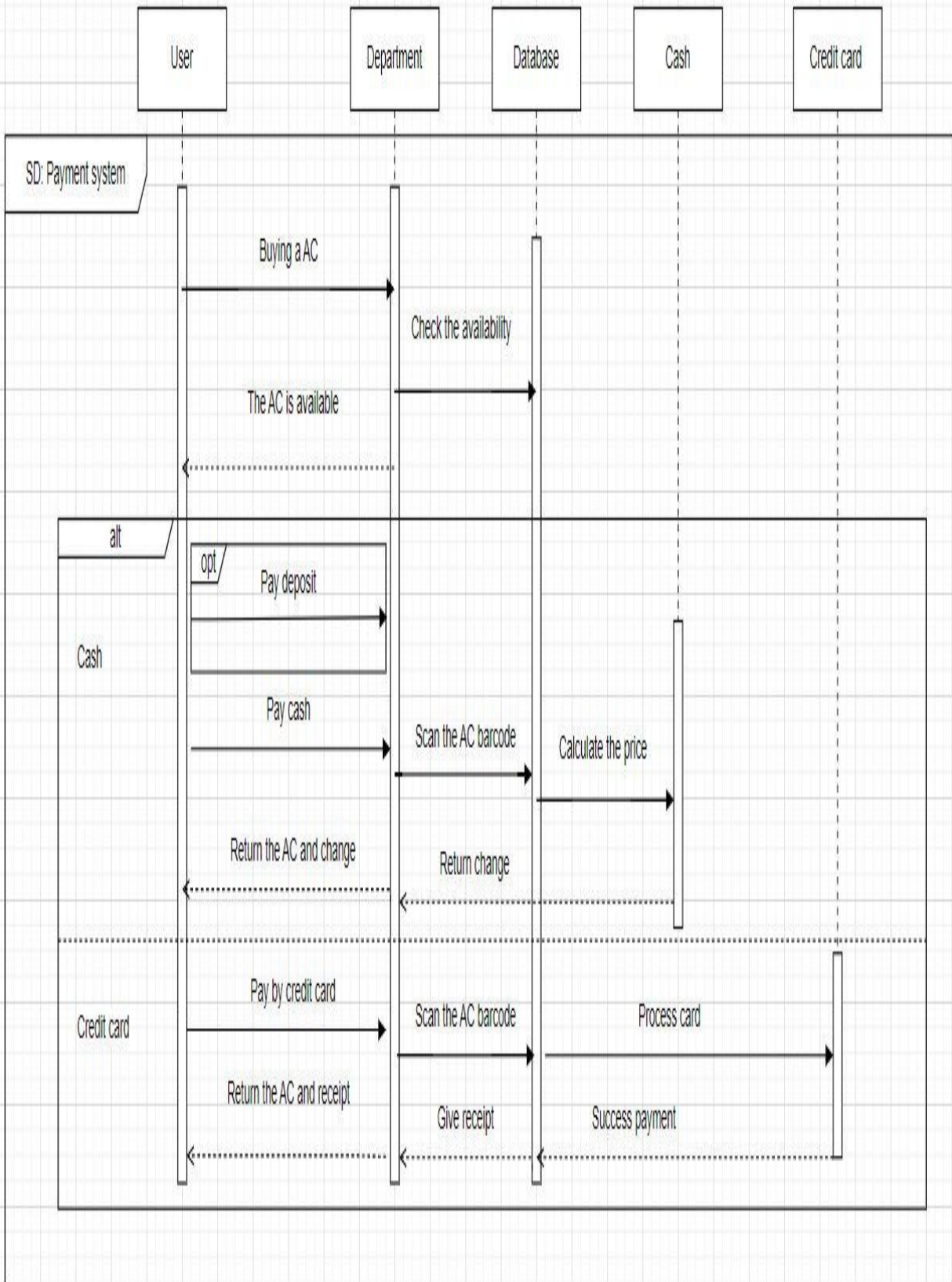
Interface 5: technicals interface

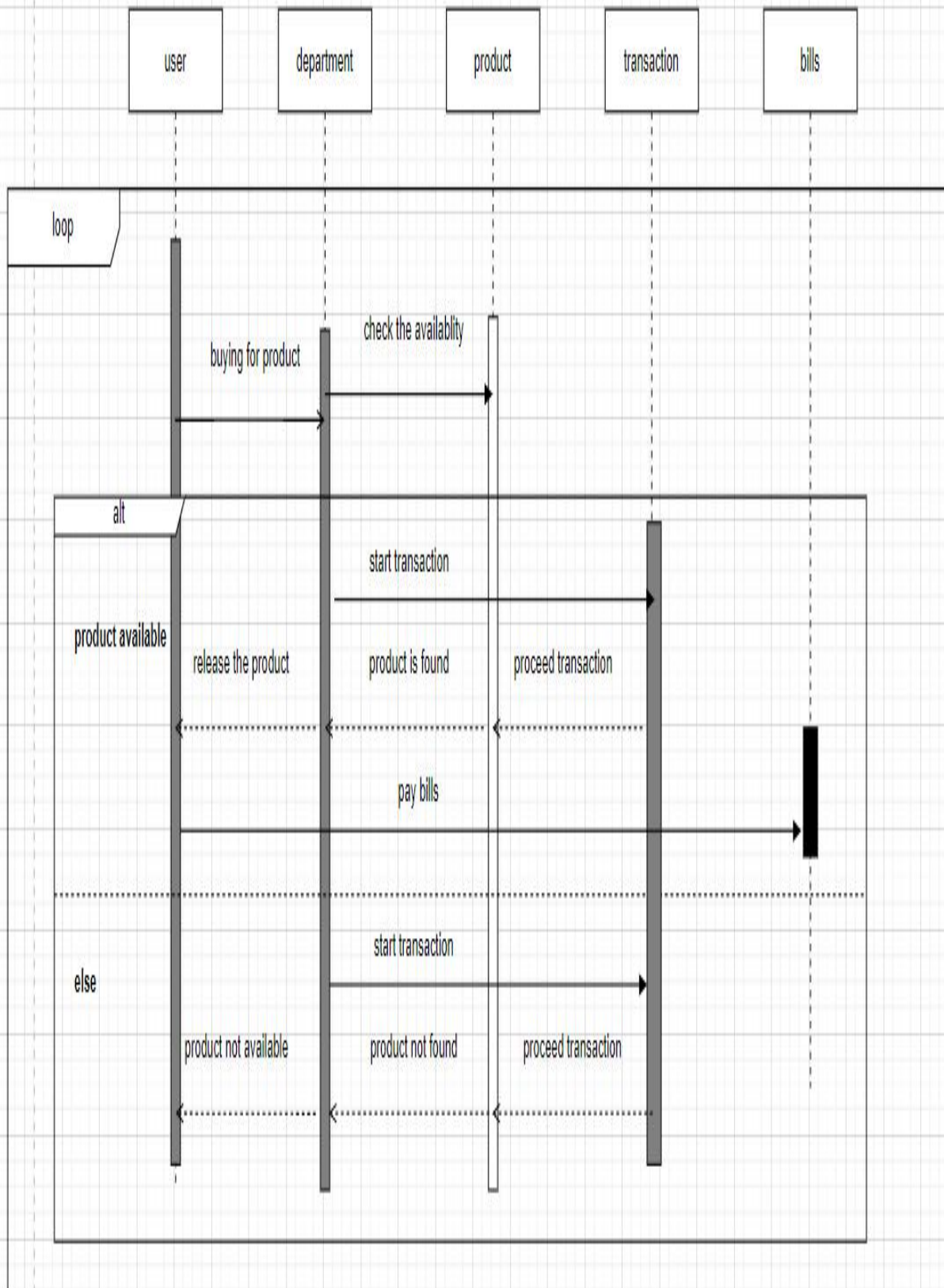
Public void maintenance schedules ()
Public void tasks ()
Public Boolean view salary (String staff name)
Public void security test ()
Public void witness test ()
Public void component test ()
Public void Acoustic test ()
Public void performance test ()
Public void reliability test ()

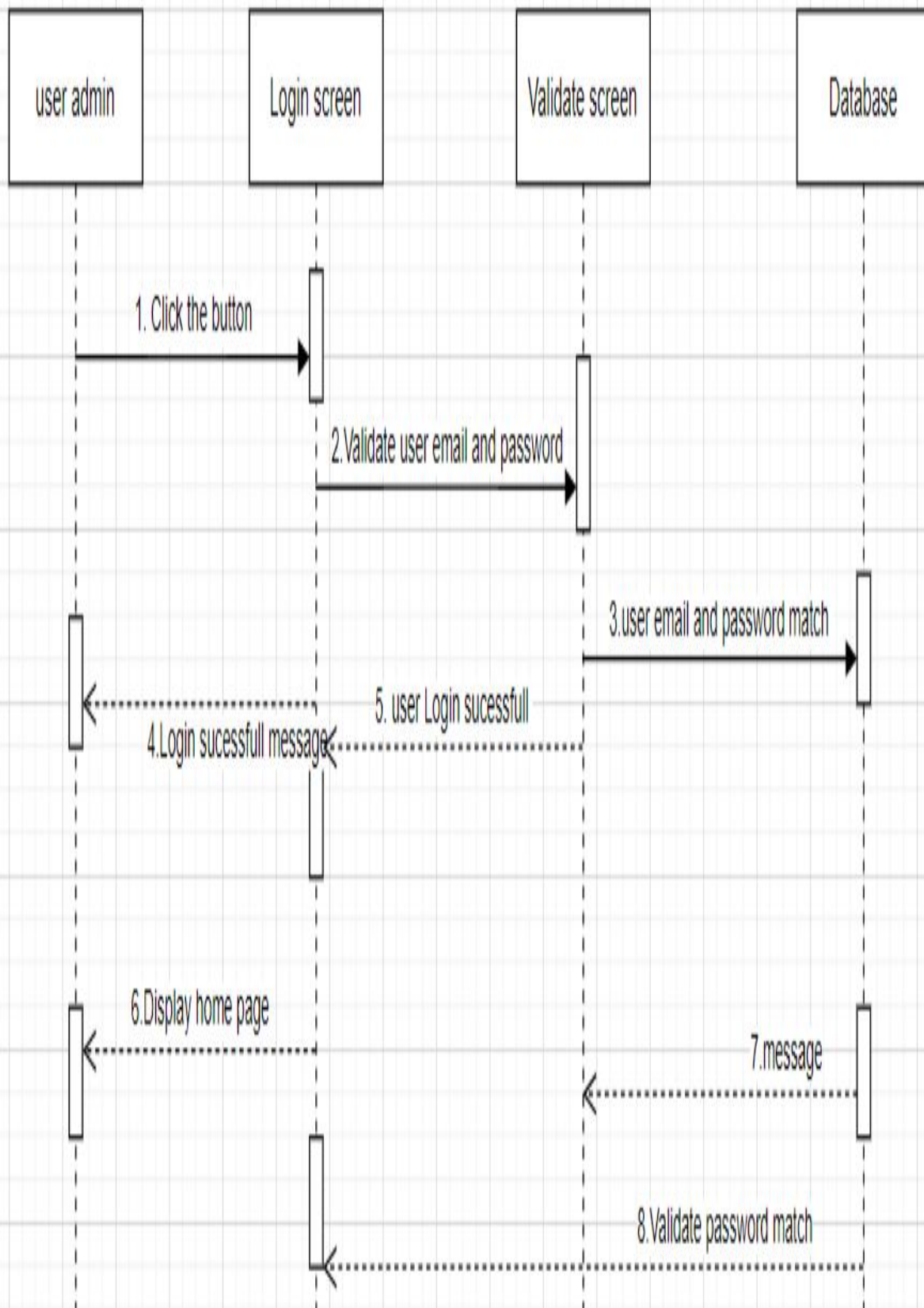
Interface 6: engineer interface

Public void contact ()
Public Boolean oversee user (String name of user)
Public void maintenance schedules ()
Public void tasks ()
Public Boolean view salary (String staff name)
Public void security test ()
Public void witness test ()
Public void component test ()
Public void Acoustic test ()
Public void performance test ()
Public void reliability test ()





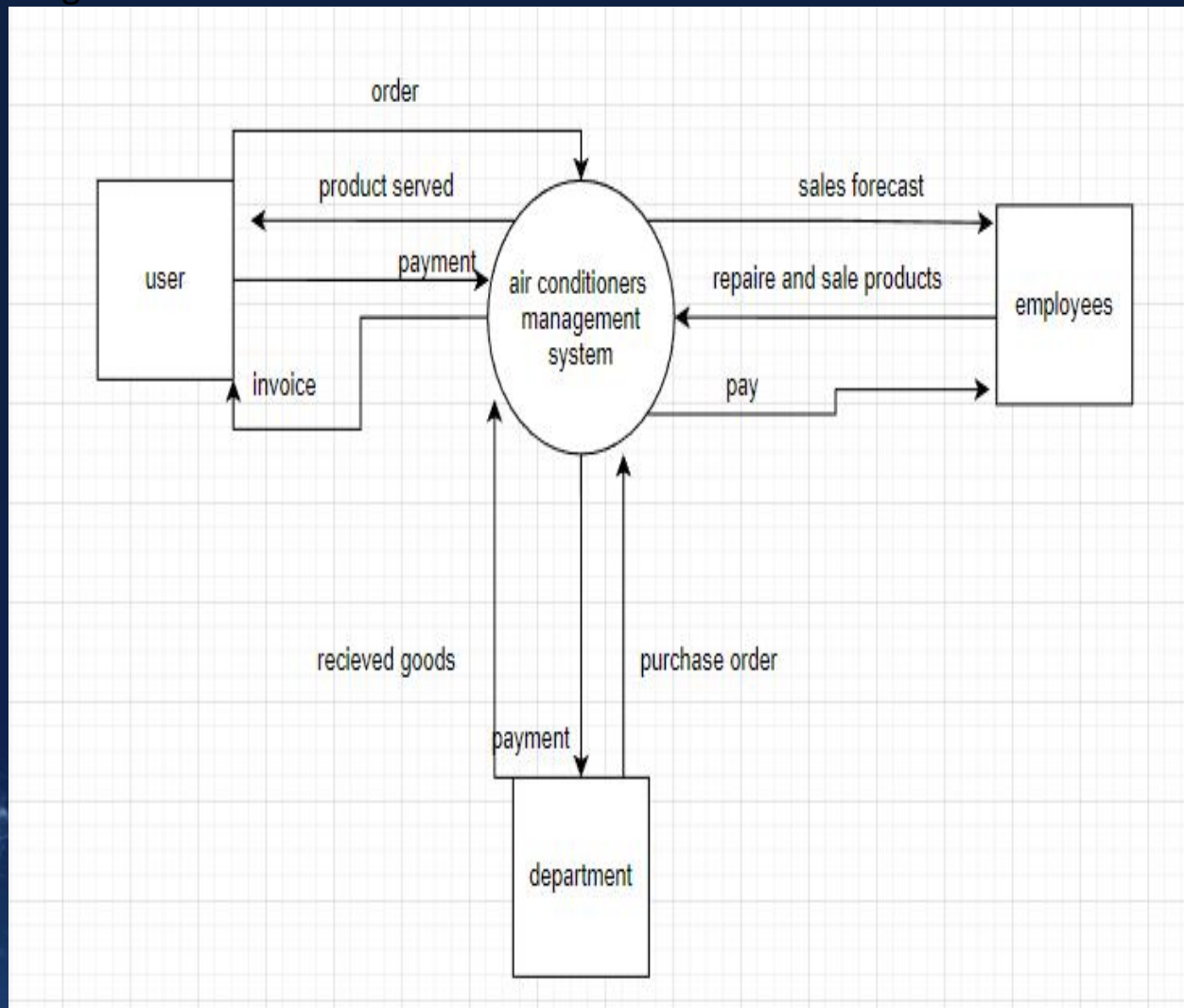


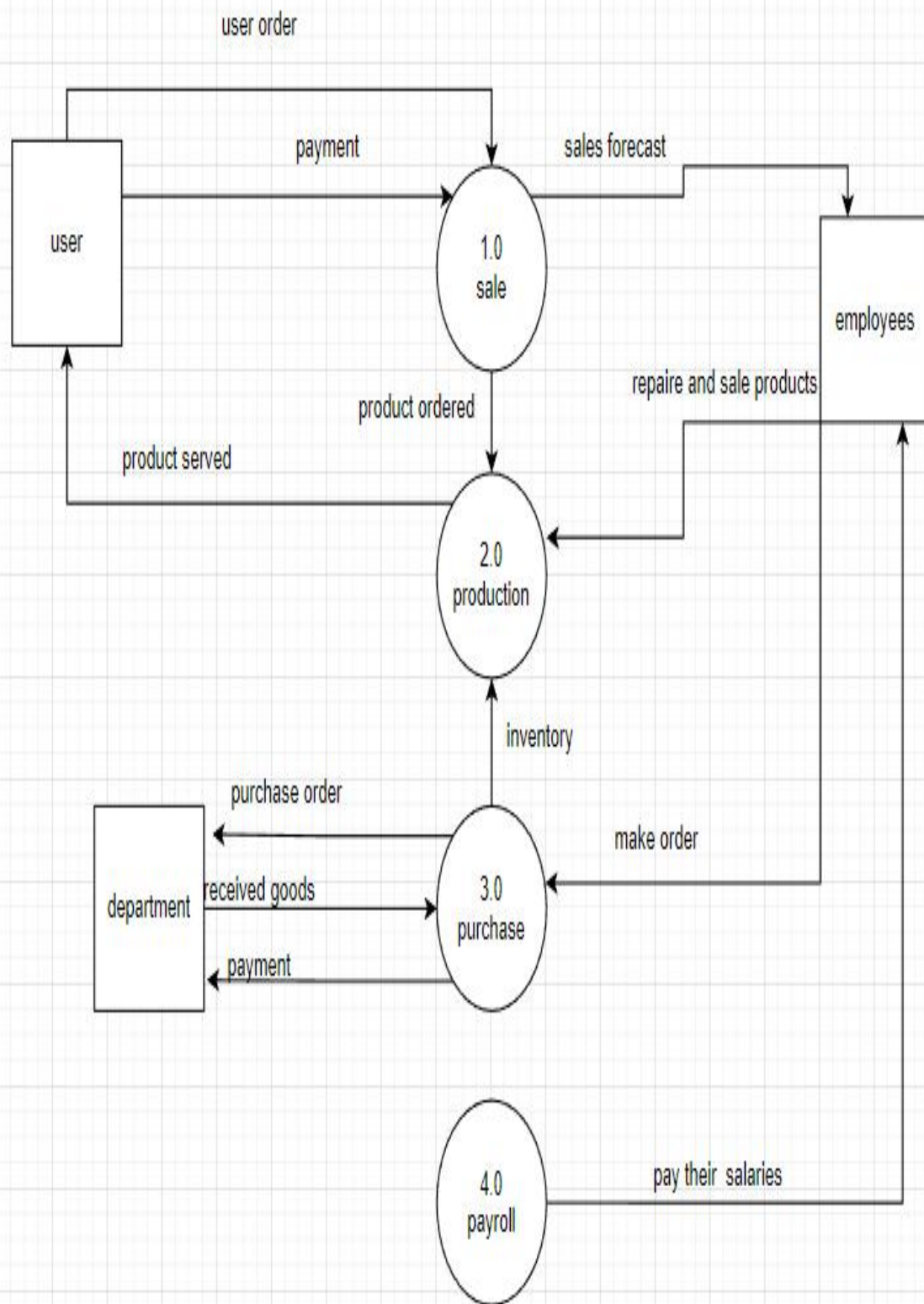


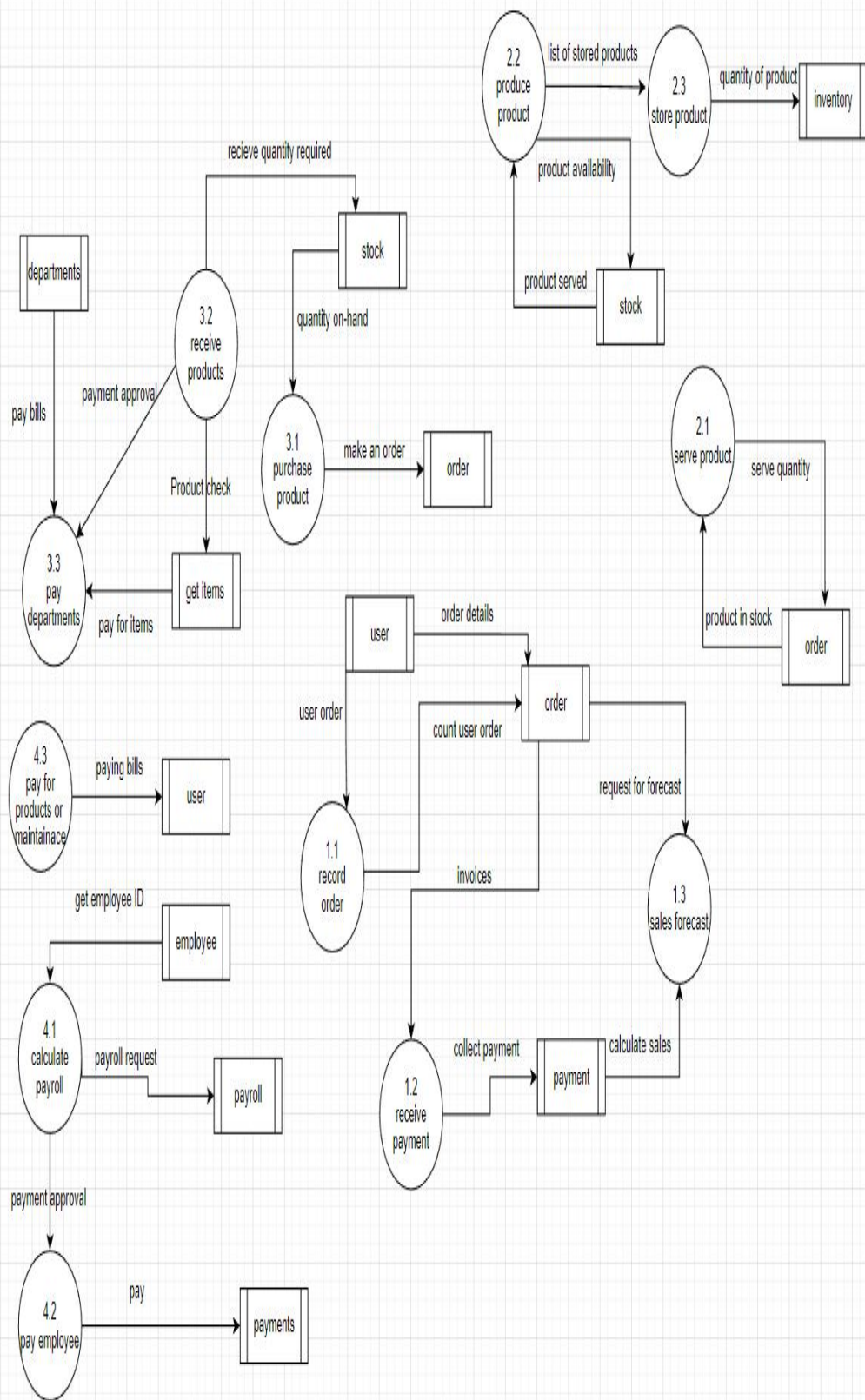
Security	B.A.C	B.S.P	R.M	Contact	O.E	O.A	M.S	O.T	Task	V.S	C.B.O.C	P.S.R	P.S	C.S.P	Lab	Payment	V.r.b.p.s
Login	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Maintance	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0
Transporting	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Financial	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	1
HR	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0
Lab	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1
Insurance	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Legal Affair	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Request	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0



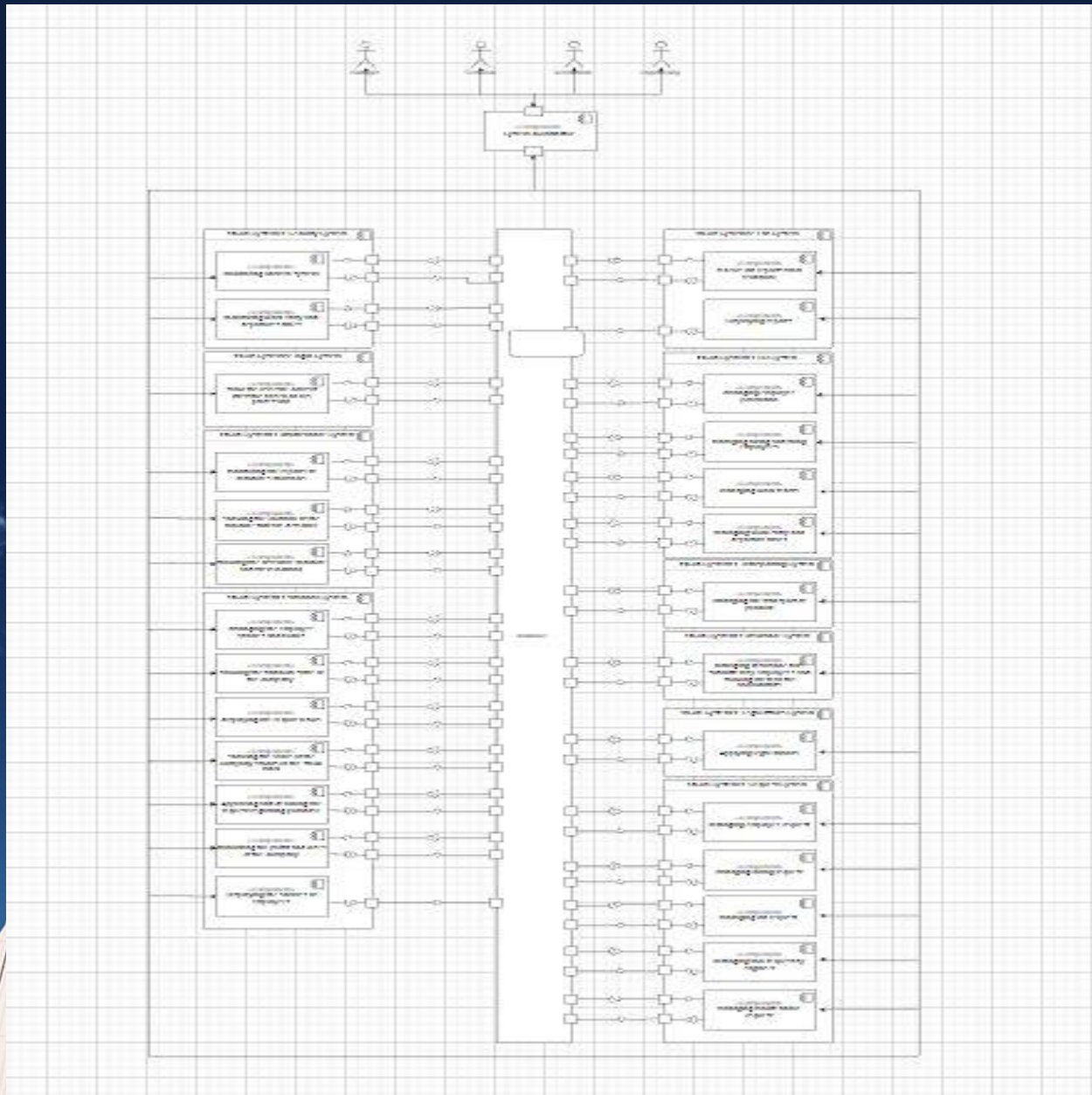
Data Flow Diagram:







Component diagram



Class diagram:

