SOFTWARE ENGINEERING PROJECT

REPORT

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we are (cloud solutions) and we are going to develop a system helps the personal assistant called (Yumnak).

1.1 Problem definition:

IN ORDER OF THE INCREDIBLE INCREASING IN THE BUSINESS FIELD AND HOW THE BUSINESSMEN/WOMEN NEEDS A PERSONAL ASSISTANT TO HANDLE THEIR APPOINMENTS, BOOKING HALLS FOR THE MEETINGS AND THE MEETINGS ITSELF. AND WE WILL NOT FORGET THE HUGE NUMBER OF FILES AND REPORTS THE ASSISTANT SHOULD ARCHIVE THEM.

AND THE PROCESS OF HANDLING EMAILS IS JUST LIKE A FULLTIME JOB!.

IN REAL IT IS A LOT FOR THE ASSISTANT TO HANDLE.

1.2 The Software Idea:

THE SOFTWARE WILL PROVIDE THE PERSONAL ASSISTANT THE ABILITY TO HANDLE SO MANY THINGS OF HIS/HER JOB ONLY FROM ONE PLACE WITHOUT THE DISTRACTION AMONG DIFFERENT SOFTWARES OR EVEN DOING THE TASK MANUALLY IN THE REAL LIFE.

SINCE WE WILL GIVE THE SERVICE OF REGISTERING APPOINTMENTS,BOOKING HALLS FOR THE MEETINGS,DEAL WITH THE EMAILS IN ONE APPLICATION AND THE SERVICE OF UPLOADING FILES TO ARCHIVE THEM RATHER THAN DOING IT IN OLD FASHION WAY SUCH AS PRINT THE PAPERS AND THEN ARCHIVE THEM IN SOME FOLDERS. HERE IS MUCH

EASIER AND MUCH SAVER OVER THE TIME BECAUSE IT WILL BE SAVED IN

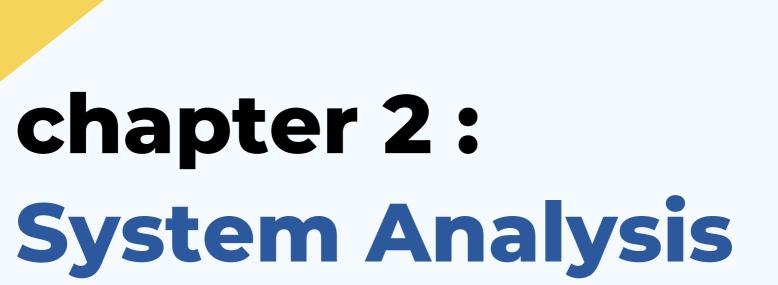
OUR DATABASES.

1.3 Solutions /SW services:

- 1- SIGN UP OR LOGIN TO MAKE USE OF (YOMNAK) SERVICES.
- 2- SHOW THE MAILBOX TO SEE THE NEW EMAILS.
- 3- SEND AN EMAILS.
- 4- REGISTERING APPOINTMENTS AND SHOW THEM IN THE APPLICATION CALENDAR AND THE ABILITY OF MAKE A REMINDER FOR THEM.
- 5- FROM (YOMNAK) THE USER CAN BOOK HALLS FOR THE MEETINGS AND SHOW THE BOOKED ONE.
- 6- IN (YOMNAK) THE USER CAN UPLOAD AS MANY FILES AS HE/SHE WANTS TO ARCHIVE THEM IN THE DATABASE.

1.4 The Target Group:

ANY PERSONAL ASSISTANT AND SPECIALLY WHO NEEDS TO ORGANIZE AND CENTRALIZE AS MUCH OF HIS/HER TASKS IN ONE PLACE.



2.1 Gathering the information:

MAKING AN INTERVIEW WITH THE STAKEHOLDER:

A PERSONAL ASSISTANT WHO SUFFERS FROM HIS DEMANDING JOB CAME TO US AND ASK TO BUILD A SOFTWARE THAT CAN HELP THE PERSONAL ASSISTANT IN SOME TASKS.

- 1 WHAT IS THE APPLICATION THAT YOU WANT?
 AN APPLICATION THAT CAN GATHER BUNCH OF PERSONAL ASSISTANT
 TASKS IN ONE PLACE TO MAKE HIS/HER JOB CLEARER AND EASIER.
- 2 What are the services the system can provide? The application could provide these services: Receive and send emails, show available halls and the ability book them. And the service of adding appointments and display them in order of insert to make it easy to visualize them and of course a mechanism for archive files.
- 3 HOW DO YOU WANT THE USER TO DEAL WITH THE EMAILS?

NOTHING COMPLEX, JUST TO WRITE THE RECEIVER EMAIL AND A WRITE THE EMAIL ITSELF AND SEND IT.

AND JUST DISPLAY EVERYTHING IN THE MAILBOX.

4 - HOW DO YOU USUALLY BOOKING A HALL FOR MEETINGS?

AT FIRST I HAVE TO SEARCH IN SOME KNOWN PLACES FOR SUITABLE HALLS WHICH TAKES A LOT OF TIME. THEN I MAKE SURE THAT THIS HALL IS AVAILABLE WITH THE WANTED DATE AND THEN I REACH THE OWNER TO MAKE THE RESERVATION.

5 - IS IT GOOD IF WE DISPLAY LIST OF HALLS AND YOU CAN CHOOSE FROM THEM THEN MAKE THE RESERVATION?

YES IT WILL BE GOOD.

- 6 THE ARCHIVE SERVICE, CAN YOU DESCRIBE WHAT YOU WANT WHEN YOU ARE USING THE APP?

 I DON'T WANT ANY THING COMPLEX, JUST UPLOAD THE FILE TO THE SYSTEM AND VIEW THEM LATER WITH SOME SORT METHOD.
- 7 WHAT IS THE DETAILS THAT YOU NEED ABOUT THE APPOINTMENT WHEN YOU REGISTER A NEW ONE?

 USUALLY I NEED THE NAME, DATE, TIME AND PLACE. IT WILL BE A NICE IF I HAVE A REMINDER FOR THE APPOINTMENT ALSO.
- 8 ARE THERE ANY OTHER SERVICES THE SYSTEM CAN PROVIDE?

IT SHOULD BE EASY TO USE, NO COMPLEX PROCESSES OR TO MUCH STEPS FOR DOING ANY OF THE TASKS. OF COURSE IT SHOULD BE RELIABLE SO NOTHING OF THE DATA CAN BE LOST IN ANY CIRCUMSTANCES. AND IT SHOULD MAKE THE USER FEEL SAFE WHEN HE/SHE UPLOAD FILES IT COULD SENSITIVE AND CRITICAL FILES.

2.2 Functional requirements

2.2.1 : Sign up

· USER REQUIREMENT:

THE USER SHALL BE ABLE TO CREATE A NEW ACCOUNT.

· SYSTEM REQUIREMENTS:

1- THE SYSTEM SHALL BE ABLE TO DISPLAY SIGN UP FORM TO THE USER WHICH CONTAINS LIST OF FIELDS:

(FIRST NAME, LAST NAME, EMAIL, PASSWORD,

CONFIRMATION OF THE PASSWORD, PHONE NUMBER)

2- THE SYSTEM SHALL BE ABLE TO VALIDATE THE ENTERED DATA WITH THESE CONSTRAINS:

*THE EMAIL AND PHONE NUMBER MUST BE UNIQUE AND THERE IS NO OTHER RECORD IN THE DATABASE HAS THE SAME VALUES.

* THE PASSWORD SHOULD BE AT LEAST 8 CHARACTERS
THAT CONTAINS LETTERS IN UPPERCASE AND LOWERCASE
AND NUMBERS.

3- THE SYSTEM SHALL BE ABLE TO DISPLAY POP-UP WINDOW TO THE USER WITH A MESSAGE IF THE VALIDATION WAS SUCCESSFUL AND DO THE PHONE NUMBER VERIFICATION. OTHERWISE, IT RETURN THE USER TO THE FORM AND ASK TO FILL THE FORM AGAIN WITH THE SPECIFIED CONSTRAINTS.

2.2.2: Verification code

· USER REQUIREMENT:

THE USER SHALL BE ABLE TO ENTER THE VERIFICATION CODE.

· SYSTEM REQUIREMENTS:

1-THE SYSTEM SHALL BE ABLE TO SEND A MESSAGE TO THE USER IF THE REGISTRATION WAS SUCCESSFUL TO HIS PHONE NUMBER WITH A VERIFICATION CODE.

- 2- THE SYSTEM SHALL BE ABLE TO CHECK IF THE ENTERED CODE MATCHES THE THE CODE WAS SEND.
- 3- THE SYSTEM SHALL BE ABLE TO NAVIGATE THE USER TO THE MAIN INTERFACE IF THE CODES MATCH. OTHERWISE, IT SHOULD KEEP ASK THE USER TO ENTER THE WRITE CODE.
- 4- THE SYSTEM SHALL BE ABLE TO SEND USER INFORMATIONS TO THE DATABASE TO SAVE.

2.2.3 : Login

· USER REQUIREMENT:

THE USER SHALL BE ABLE TO LOGIN TO HIS/HER ACCOUNT.

· SYSTEM REQUIREMENTS:

I-THE SYSTEM SHALL BE ABLE TO DISPLAY LOGIN FORM TO THE USER WHICH CONTAIN THESE FIELDS: (EMAIL AND PASSWORD)

2- THE SYSTEM SHALL BE ABLE TO CHECK FROM THE ENTERED DATA WITH THE DATABASE. IF THERE IS A MATCH RETRIEVE USER INFORMATION AND NAVIGATE TO THE MAIN INTERFACE. OTHERWISE, DISPLAY POP-UP MESSAGE CONTAINS (THERE IS NO SUCH ACCOUNT, TRY AGAIN OR SIGN UP).

2.2.4: View appointments

· USER REQUIREMENT:

THE USER SHALL BE ABLE TO VIEW HIS/HER REGISTERED APPOINTMENTS.

· SYSTEM REQUIREMENTS:

APPOINTMENTS.

1-THE SYSTEM SHALL BE ABLE TO RETRIEVE USER APPOINTMENTS FROM THE DATABASE.

2-THE SYSTEM SHALL BE ABLE TO DISPLAY ALL THE

2.2.5: Create an appointment

· USER REQUIREMENT:

THE USER SHALL BE ABLE TO CREATE A NEW APPOINTMENT

· SYSTEM REQUIREMENTS:

1- THE SYSTEM SHALL BE ABLE TO DISPLAY THE READY-MADE FORM FOR INSERTING THE NEW APPOINTMENT.

THE FORM SHOULD CONTAIN (DATE, TIME, NAME, PLACE AND THE TIME OF THE REMINDER).

2- THE SYSTEM SHALL BE ABLE TO SAVE THE APPOINTMENT INTO THE DATABASE.

3- THE SYSTEM SHALL BE ABLE TO SHOW THE NEW APPOINTMENT IN THE USER'S APPOINTMENTS INTERFACE WITH A GREY COLOR.

2.2.6: View halls

· USER REQUIREMENT:

THE USER SHALL BE ABLE TO SEE THE AVAILABLE HALLS TO BOOK.

· SYSTEM REQUIREMENTS:

1-THE SYSTEM SHALL BE ABLE TO RETRIEVE THE HALLS RECORDED IN THE DATABASE.

2-THE SYSTEM SHALL BE ABLE TO DISPLAY HALLS IN THE SCREEN.

2.2.7 : Select hall

· USER REQUIREMENT:

THE USER SHALL BE ABLE TO SELECT THE HALL THAT HE/SHE WANT TO BOOK BY CLICK ON THE HALL NAME.

· SYSTEM REQUIREMENTS:

1-THE SYSTEM SHALL BE ABLE TO RETRIEVE THE AVAILABLE TIMES OF THE HALLS FROM THE DATABASE.

2- THE SYSTEM SHALL BE ABLE TO DISPLAY AVAILABLE TIMES OF THE HALLS.

2.2.8 : Booking a hall

· USER REQUIREMENT:

THE USER SHALL BE ABLE TO SELECT THE DESIRED TIME.

· SYSTEM REQUIREMENTS:

1-THE SYSTEM SHALL BE ABLE TO DETECT THE SELECTED HALL WITH THE SPECIFIED TIME.

2-THE SYSTEM SHALL BE ABLE TO SEND AN EMAIL TO THE HALL OWNER TO CONFIRM THE RESERVATION.

3-THE SYSTEM SHALL BE ABLE TO SAVE THE HALL RESERVATION IN THE APPOINTMENTS DATABASE.

4-THE SYSTEM SHALL BE ABLE TO DISPLAY A RESERVATION CONFIRMATION POP-UP

5- THE SYSTEM SHALL BE ABLE TO MARK THE HALL RESERVATION IN THE USER'S APPOINTMENTS INTERFACE WITH A RED COLOR.

2.2.9: View mailbox

· USER REQUIREMENT:

THE USER SHALL BE ABLE TO VIEW ALL HIS/HER MAILBOX MESSAGES .

· SYSTEM REQUIREMENTS:

1-THE SYSTEM SHALL BE ABLE TO RETRIEVE USER'S EMAIL FROM THE DATABASE.

2-THE SYSTEM SHALL BE ABLE TO ACCESS USER'S MAIL SERVER.

3-THE SYSTEM SHALL BE ABLE TO PULL THE MAILBOX MESSAGES.

4-THE SYSTEM SHALL BE ABLE TO DISPLAY THE PULLED EMAILS.

2.2.10 : Open an email

· USER REQUIREMENT:

THE USER SHALL BE ABLE TO OPEN THE EMAILS.

· SYSTEM REQUIREMENTS:

1- THE SYSTEM SHALL BE ABLE TO DETECT THE SELECTED MAIL BY THE USER CLICK.

2-THE SYSTEM SHALL BE ABLE PULL THE CHOSEN EMAIL CONTENT.

3- THE SYSTEM SHALL BE ABLE TO DISPLAY THE EMAIL TITLE, CONTENT AND SENDER.

2.2.11: Sending an emails

USER REQUIREMENT:

THE USER SHALL BE ABLE TO SEND EMAILS.

· SYSTEM REQUIREMENTS:

1-THE SYSTEM SHALL BE ABLE TO RETRIEVE USER'S EMAIL FROM THE DATABASE.

2-THE SYSTEM SHALL BE ABLE TO DISPLAY SENDING FORM WHICH CONTAINS 3 FIELDS (RECEIVER EMAIL & TITLE & THE EMAIL CONTENT).

3-THE SYSTEM SHALL BE ABLE TO ACCESS USER'S MAIL SERVER.

4-THE SYSTEM SHALL BE ABLE TO SEND THE EMAIL TO THE RECEIVER.

2.2.12 : View files

· USER REQUIREMENT:

THE USER MUST BE ABLE TO VIEW THE EXISTING FILES.

· SYSTEM REQUIREMENTS:

1-THE SYSTEM SHALL BE ABLE TO PULL USER'S FILES FROM THE DATABASE.

2-THE SYSTEM SHALL BE ABLE TO SORT THE PULLED FILES EITHER (ALPHABETICALLY OR BY UPLOAD DATE).

3-THE SYSTEM SHALL BE ABLE TO DISPLAY THE PULLED FILES AFTER SORTING THEM.

2.2.13 : Open a file

· USER REQUIREMENT:

THE USER MUST BE ABLE TO OPEN A FILE OF HIS CHOICE

· SYSTEM REQUIREMENTS:

1- THE SYSTEM SHALL BE ABLE TO DETECT THE SELECTED FILE BY THE USER CLICK.

2- THE SYSTEM SHALL BE ABLE TO DISPLAY THE SELECTED FILE.

2.2.14 : Upload files

· USER REQUIREMENT:

THE USER SHALL BE ABLE TO UPLOAD A FILE.

· SYSTEM REQUIREMENTS:

1-THE SYSTEM SHALL BE ABLE TO MAKE THE USER EXPLORE HIS DEVICE TO CHOOSE THAT FILE TO UPLOAD.

2-THE SYSTEM SHALL BE ABLE TO SAVE THE FILE IN THE DATABASE.

3-THE SYSTEM SHALL BE ABLE TO DISPLAY THE UPLOADED FILE IN FILES INTERFACE.

2.3 Non-Functional requirements



IT HAS A CLEAR FLOW SERVICES AND SIMPLICITY. AND WE CAN TELL THAT IT IS SO EASY TO USE AND IT WILL NOT TAKE FROM THE USER MORE THAN 6 HOURS TO LEARN HOW TO REACH AND USE ALL THE PROVIDED SERVICES.

EFFICIENCY:

 $$500\mbox{MP}\ /\ 1\mbox{ SEC}$ 0.1 SECOND IS HAVING THE USER FEEL THAT THE SYSTEM IS REACTING

SPACE

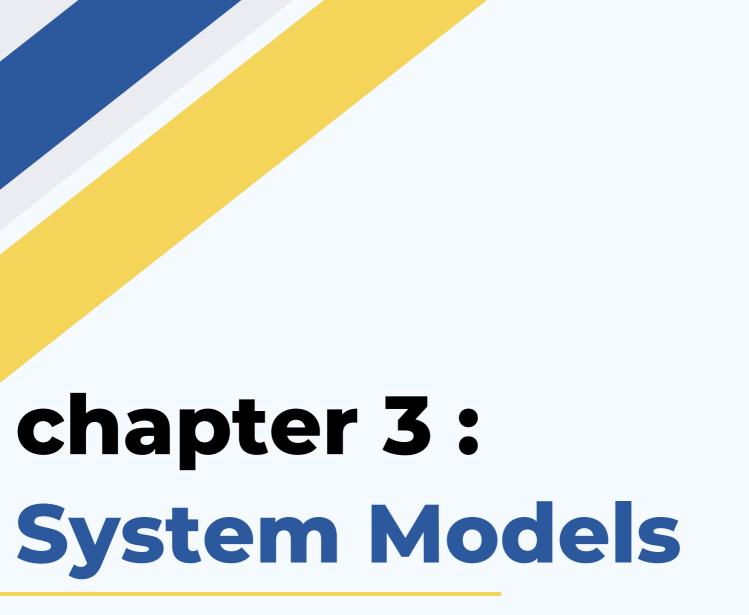
THE SPACE HAS 32 TERABYTES, ENOUGH FOR ALL USER REQUIREMENTS.

DEPENDABILITY

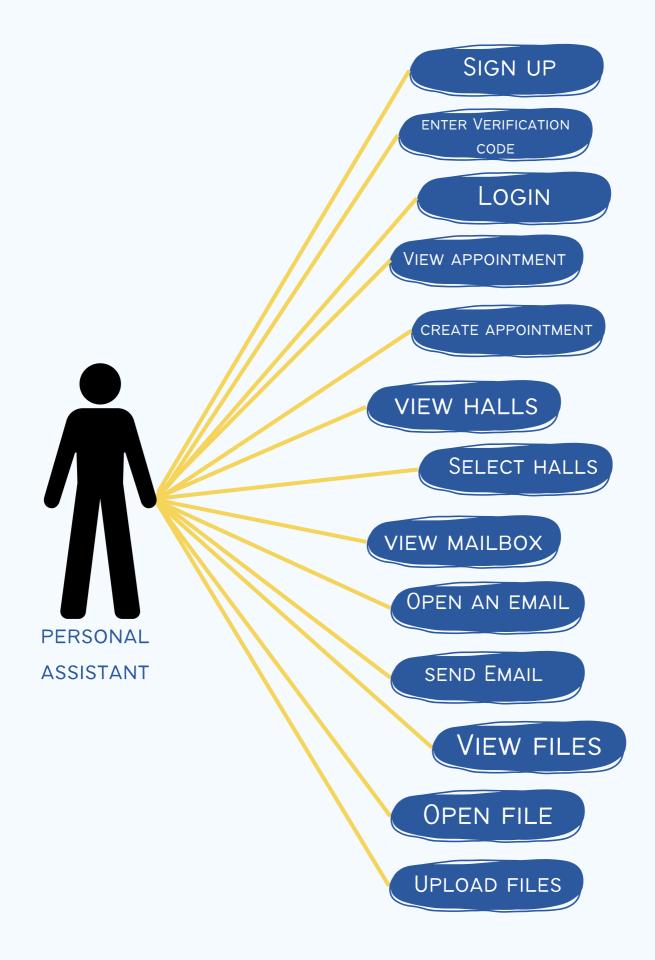
FOUR TO 12 HOURS THE MAXIMUM TOLERABLE LENGTH OF TIME THAT A COMPUTER, SYSTEM, NETWORK OR APPLICATION CAN BE DOWN AFTER A FAILURE OR DISASTER OCCURS.

SECURITY

THE SOFTWARE SHALL REMAIN RESILIENT IN THE FACE
OF ATTACKS AND ENSURE THE INTEGRITY OF THE
CUSTOMER ACCOUNT INFORMATION.



3.1 Use Case Diagram



3.2 Scenarios

3.2.1 Sign Up Scenario	
ACTORS	THE PERSONAL ASSISTANT
DESCRIPTION	THE SYSTEM WILL DISPLAY THE SIGN UP FORM TO THE USER WHICH CONTAINS LIST OF FIELDS: (FIRST NAME, LAST NAME, EMAIL, PASSWORD, CONFIRMATION OF THE PASSWORD, PHONE NUMBER). AFTER THE USER FILL THE FORM THE SYSTEM WILL VALIDATE THE ENTERED DATA WITH THESE CONSTRAINS: *THE EMAIL AND PHONE NUMBER MUST BE UNIQUE AND THERE IS NO OTHER RECORD IN THE DATABASE HAS THE SAME VALUES. * THE PASSWORD SHOULD BE AT LEAST 8 CHARACTERS THAT CONTAINS LETTERS IN UPPERCASE AND LOWERCASE AND NUMBERS. AS A RESULT OF THE VALIDATION THE SYSTEM WILL DISPLAY POP-UP WINDOW TO THE USER WITH A MESSAGE IF THE VALIDATION WAS SUCCESSFUL AND DO THE PHONE NUMBER VERIFICATION. OTHERWISE, IT RETURN THE USER TO THE FORM AND ASK TO FILL THE FORM AGAIN WITH THE SPECIFIED CONSTRAINTS.
DATA	FORM FIELDS DATA : (FIRST NAME, LAST NAME, EMAIL, PASSWORD, CONFIRMATION OF THE PASSWORD, PHONE NUMBER).
STIMULUS	THE TRIGGER FOR THIS SCENARIO IS USER'S CLICK ON (SIGN UP) BUTTON.
RESPONCE	MOVE TO THE NEXT STEP OF THE REGISTRATION (VERIFICATION CODE).
COMMENTS	ONLY THE MANAGERS HAS THE ACCESSIBILITY TO THE DATABASE

3.2.2 Verification code Scenario	
ACTORS	THE PERSONAL ASSISTANT
DESCRIPTION	THE SYSTEM WILL SEND A MESSAGE TO THE USER IF THE VALIDATION STEP WAS SUCCESSFUL TO HIS PHONE NUMBER WITH A VERIFICATION CODE. THE USER WILL ENTER THE RECEIVED CODE AND THE SYSTEM WILL CHECK IF THE ENTERED CODE MATCHES THE CODE WAS SEND. IF THEY MATCH THE SYSTEM WILL SEND USER'S INFORMATION TO THE DATABASE TO BE SAVED AND THEN WILL NAVIGATE THE USER TO THE MAIN INTERFACE. OTHERWISE, IT SHOULD KEEP ASK THE USER TO ENTER THE WRITE CODE.
DATA	THE VERIFICATION CODE.
STIMULUS	THE TRIGGER FOR THIS SCENARIO IS THE SUCCESSFUL VALIDATION ON THE SIGN UP FORM .
RESPONCE	THE USER WILL BE NAVIGATED TO THE MAIN INTERFACE.
COMMENTS	THE USER SHOULD ENTER THE CORRECT CODE. ONLY THE MANAGERS HAS THE ACCESSIBILITY TO THE DATABASE

3.2.3 Login Scenario	
ACTORS	THE PERSONAL ASSISTANT
DESCRIPTION	THE SYSTEM WILL DISPLAY LOGIN FORM TO THE USER WHICH CONTAIN THESE FIELDS: (EMAIL AND PASSWORD) AFTER THE USER FILL THE FORM THE SYSTEM WILL CHECK FROM THE ENTERED DATA WITH THE DATABASE. IF THERE IS A MATCH THE USER WILL BE NAVIGATED TO THE MAIN INTERFACE. OTHERWISE, DISPLAY POP- UP MESSAGE CONTAINS (THERE IS NO SUCH ACCOUNT, TRY AGAIN OR SIGN UP).
DATA	FORM FIELDS: (EMAIL AND PASSWORD).
STIMULUS	USERS CLICKS ON THE LOGIN BUTTON.
RESPONCE	THE USER WILL BE NAVIGATED TO THE MAIN INTERFACE.
COMMENTS	ONLY THE MANAGERS HAS THE ACCESSIBILITY TO THE DATABASE

3.2.4 Create appointments scenario	
ACTORS	THE PERSONAL ASSISTANT
DESCRIPTION	When the user chooses the appointment creation service, the system must show the user the form ready to fill in the appointment with the following information: (appointment name, date (day and time), duration, place, customer name), and there is a reminder option if the user wants to be reminded and set the appropriate time for the reminder. In the event that the appointment conflict with another appointment, the system must alert the user that there is another appointment, if the data is filled in, the system must save it in the table and database
DATA	APPOINTMENT INFORMATION (APPOINTMENT NAME, CLIENT NAME, DATE (DAY AND TIME), APPOINTMENT DURATION, APPOINTMENT LOCATION
STIMULUS	The user clicks the Create Appointment button
RESPONCE	CONFIRMATION OF CREATING AN APPOINTMENT.
COMMENTS	ONLY THE MANAGERS HAS THE ACCESSIBILITY TO THE DATABASE

3.2.5 view appointment scenario	
ACTORS	THE PERSONAL ASSISTANT
DESCRIPTION	THE USER CHOOSES THE APPOINTMENT VIEWING SERVICE, AND THE SYSTEM SHOULD DISPLAY ALL THE APPOINTMENTS IN ORDER FROM THE OLDEST TO THE NEWEST BY DATE. WHEN YOU CLICK ON THE REQUIRED APPOINTMENT, THE APPOINTMENT SHOULD BE SHOWN WITH THE FOLLOWING INFORMATION: (APPOINTMENT NAME, DATE (DAY) AND TIME), LOCATION, APPOINTMENT DURATION AND CLIENT NAME), IT WILL THE SYSTEM WILL COLOR THE APPOINTMENT IN GRAY IF ITS DATE FALLS TODAY, AND COLOR THE APPOINTMENT IN RED IF IT IS A HALLS
DATA	There's no data.
STIMULUS	The user clicks the button to view appointments
RESPONCE	ALL APPOINTMENTS ARE DISPLAYED IN ORDER FROM OLDEST TO NEWEST
COMMENTS	ONLY THE MANAGERS HAS THE ACCESSIBILITY TO THE DATABASE

3.2.6 view halls scenario	
ACTORS	THE PERSONAL ASSISTANT
DESCRIPTION	THE SYSTEM WILL RETRIEVE THE HALLS RECORDED IN THE DATABASE THE DISPLAY IT IN THE SCREEN.
DATA	There's no data.
STIMULUS	The user clicks the button to view halls
RESPONCE	THE SYSTEM WILL DISPLAY HALLS INTO SCREEN
COMMENTS	ONLY THE MANAGERS HAS THE ACCESSIBILITY TO THE DATABASE

3.2.7 select hall scenario	
ACTORS	THE PERSONAL ASSISTANT
DESCRIPTION	THE SYSTEM WILL RETRIEVE THE AVAILABLE TIMES OF THE HALL FROM DATABASE THEN DISPLAY THE AVAILABLE TIMES INTO SCREEN FOR USER
DATA	There's no data.
STIMULUS	THE USER CLICKS THE HALL TO VIEW THE A AVAILABLE TIMES FOR SELECTED HALL
RESPONCE	THE SYSTEM WILL DISPLAY AVAILABLE TIMES FOR SELECTED HALL INTO SCREEN
COMMENTS	ONLY THE MANAGERS HAS THE ACCESSIBILITY TO THE DATABASE

3.2.8 booking hall scenario	
ACTORS	THE PERSONAL ASSISTANT
DESCRIPTION	THE SYSTEM WILL DETECT THE SELECTED HALL WITH THE SPECIFIED TIME AFTER THAT SYSTEM SEND AN EMAIL TO THE OWNER TO CONFIRM THE RESERVATION ALSO DISPLAY A RESERVATION CONFIRMATION POP-UP AND SAVE THE HALL RESERVATION IN APPOINTMENTS DATABASE AND MAKE IT WITH RED IN THE USER INTERFACE
DATA	There's no data.
STIMULUS	CLICKS TO THE SPECIFIED TIME FOR SELECTED HALL
RESPONCE	POP-UP MESSAGE OF CONFIRMATION THE RESERVATION.
COMMENTS	ONLY THE MANAGERS HAS THE ACCESSIBILITY TO THE DATABASE

3.2.9 View mailbox Senario:	
ACTORS	THE PERSONAL ASSISTANT
DESCRIPTION	THE SYSTEM WILL BE ABLE TO RETRIEVE THE USER'S EMAIL FROM THE DATABASE, THE PERSON ASSISTANT WILL BE ABLE TO ACCESS THE USER'S EMAIL SERVER AND THEN PULL THE MAILBOX MESSAGES AND DISPLAY THEM.
DATA	There's no data.
STIMULUS	User command issued by person assistant by click (mailbox).
RESPONCE	Confirmation that emails has been displayed.
COMMENTS	ONLY THE SYSTEM IS ABLE TO ACCESS THE DATABASE (USER'S EMAILS).

3.2.10 Open an email Senario:	
ACTORS	THE PERSONAL ASSISTANT
DESCRIPTION	THE SYSTEM WILL BE ABLE TO DETECT THE SELECTED MAIL BY USER CLICK, THE PERSON ASSISTANT WILL BE ABLE TO PULL THE CHOSEN EMAIL CONTENT AND THEN DISPLAY THE EMAIL.
DATA	There's no data.
STIMULUS	USER COMMAND ISSUED BY PERSON ASSISTANT BY CLICK (MAILBOX)THEN CLICK ANY EMAIL.
RESPONCE	Confirmation that email has been displayed and can check each email alone.
COMMENTS	Only the system is able to access the database (user's emails).

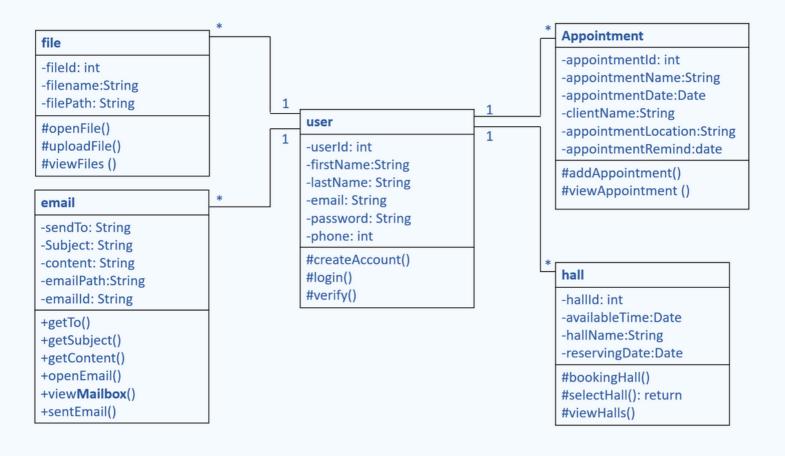
3.2.11 Sending an emails Senario:	
ACTORS	THE PERSONAL ASSISTANT
DESCRIPTION	THE SYSTEM WILL BE ABLE TO RETRIEVE THE USER'S EMAIL FROM THE DATABASE, THE PERSON ASSISTANT WILL BE ABLE TO VIEW THE SENDING FORM WHICH CONTAINS TWO FIELDS (RECIVER EMAIL & THE EMAIL CONTENT). THE PERSON ASSISTANT IS ABLE TO ACCESS THE USER'S MAIL SERVER AND SEND THE EMAIL TO THE RECEIVER.
DATA	RECIVER EMAIL AND THE EMAIL CONTENT.
STIMULUS	USER COMMAND ISSUED BY PERSON ASSISTANT BY CLICK (SEND).
RESPONCE	Confirmation that emails has been sent.
COMMENTS	The receiver's email must be of the same type as the user's email.

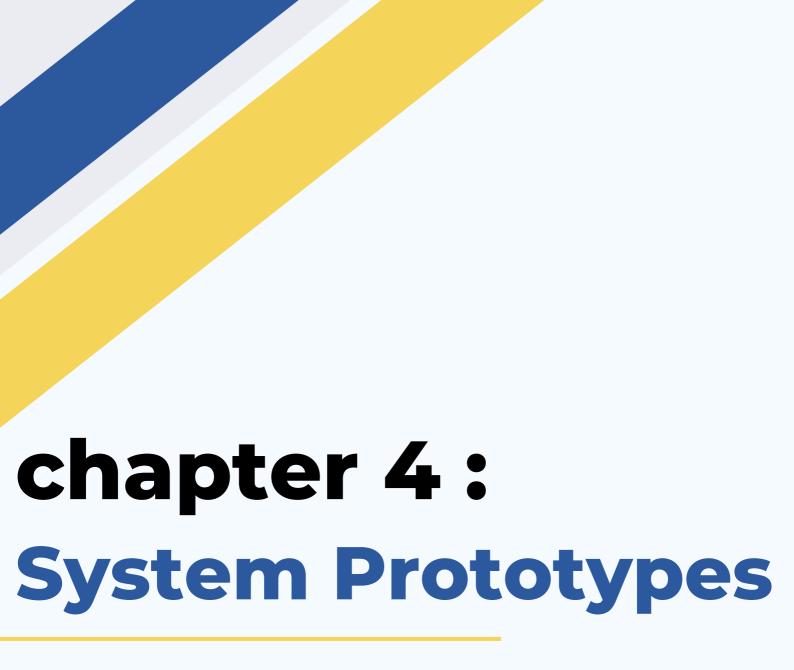
2.2.12 : View files		
ACTORS	THE PERSONAL ASSISTANT	
DESCRIPTION	THE SYSTEM SHALL BE ABLE TO PULL USER'S FILES FROM THE DATABASE. AND SORT IT EITHER (ALPHABETICALLY OR BY UPLOAD DATE). THEN DISPLAY THE PULLED FILES AFTER SORTING THEM.	
DATA	There's no data.	
STIMULUS	The user clicks the button to view fils	
RESPONCE	VIEW THE SORTED FILES	
COMMENTS	ACCESSING FILES FROM THE DATABASE	

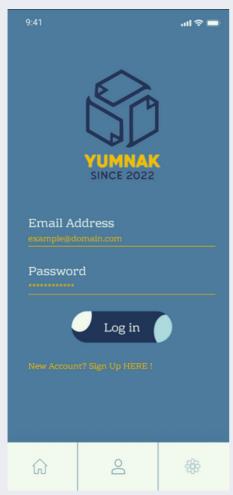
2.2.13 : Open a file		
ACTORS	THE PERSONAL ASSISTANT	
DESCRIPTION	THE SYSTEM SHALL BE ABLE TO DETECT THE SELECTED FILE BY THE USER CLICK. AND DISPLAY THE SELECTED FILE.	
DATA	There's no data.	
STIMULUS	The user clicks the button to open a file	
RESPONCE	OPEN THE SELECTED FILE	
COMMENTS	FILE ACCESS FROM FILES	

2.2.14 : Upload files		
ACTORS	THE PERSONAL ASSISTANT	
DESCRIPTION	-THE SYSTEM SHALL BE ABLE TO MAKE THE USER EXPLORE HIS DEVICE TO CHOOSE THAT FILE TO UPLOAD. THEN SAVE THE FILE IN THE DATABASE. TO DISPLAY THE UPLOADED FILE IN FILES INTERFACE.	
DATA	There's no data.	
STIMULUS	The user clicks the button to upload file	
RESPONCE	UPLOAD FILES	
COMMENTS	ACCESS TO THE DATABASE TO DOWNLOAD THE FILE	

3.2 Class diagram





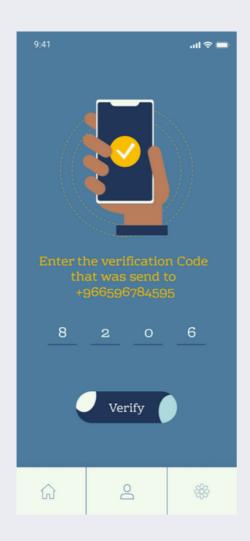








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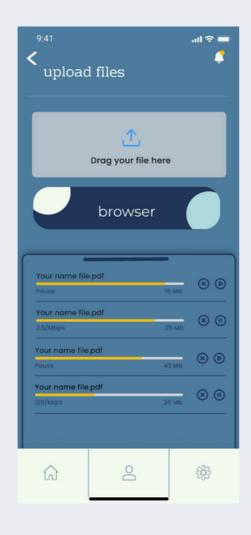










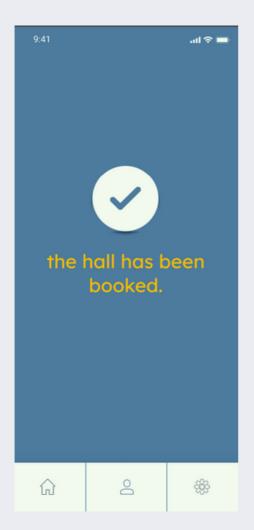














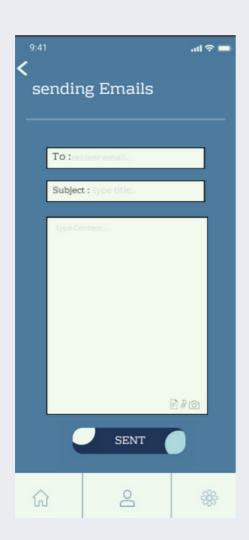














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