



Project about Sehhaty application



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1–Feasibility Study &Project Proposal:

*Introduction:

Health is one of the most important things a person has in life, therefore a rational person always thinks about how to maintain his health and well being from the risk of contracting diseases.

*Problems that the app solves :

- Crowded Hospitals and health centers with patients and visitors.
- Not knowing the working hours of the medical staff.
- Medical result don't appear until you visit the health center.

*Background about the Ministry of Health:

Saudi Ministry of Health, it's the ministry responsible for citizens' affairs. It was established in 1370 and is located in the capital city of Riyadh. The ministry's technical products include: sehhaty app, Mawared app, MOH Formulary app, and Anat app.



*Proposed solution of the problems:

- Organizing appointments for patients and visitors at specific times and days.
- Clarifying the working hours of the medical staff in the app.
- Sending the result of medical reports in the app.

*Work Plan:

(step1)specification:

- collect and analyze the requirments to be implemnted in the program.
- Determine the services required in the program.
- Determine the program rules and restrictions.

(step2)Design and implementation:

- use system design modeling languages to express specification specified in the first step.
- converting these models into an executable system.



(step3)Validation:

- Verifying that we are doing the system correctly and conforms to plan and specifications.
- Ensure that we have implemented the appropriate solution in the system.
- Reviewing processes and testing the system according to the presented specifications.

(step4)Evaluation:

- identifying new requirements.
- suggest possible changes to the app.
- Adding updates to the app from modern features.
- Test the system following these new requirements.



2-Project requirements:

*Functional requirements:

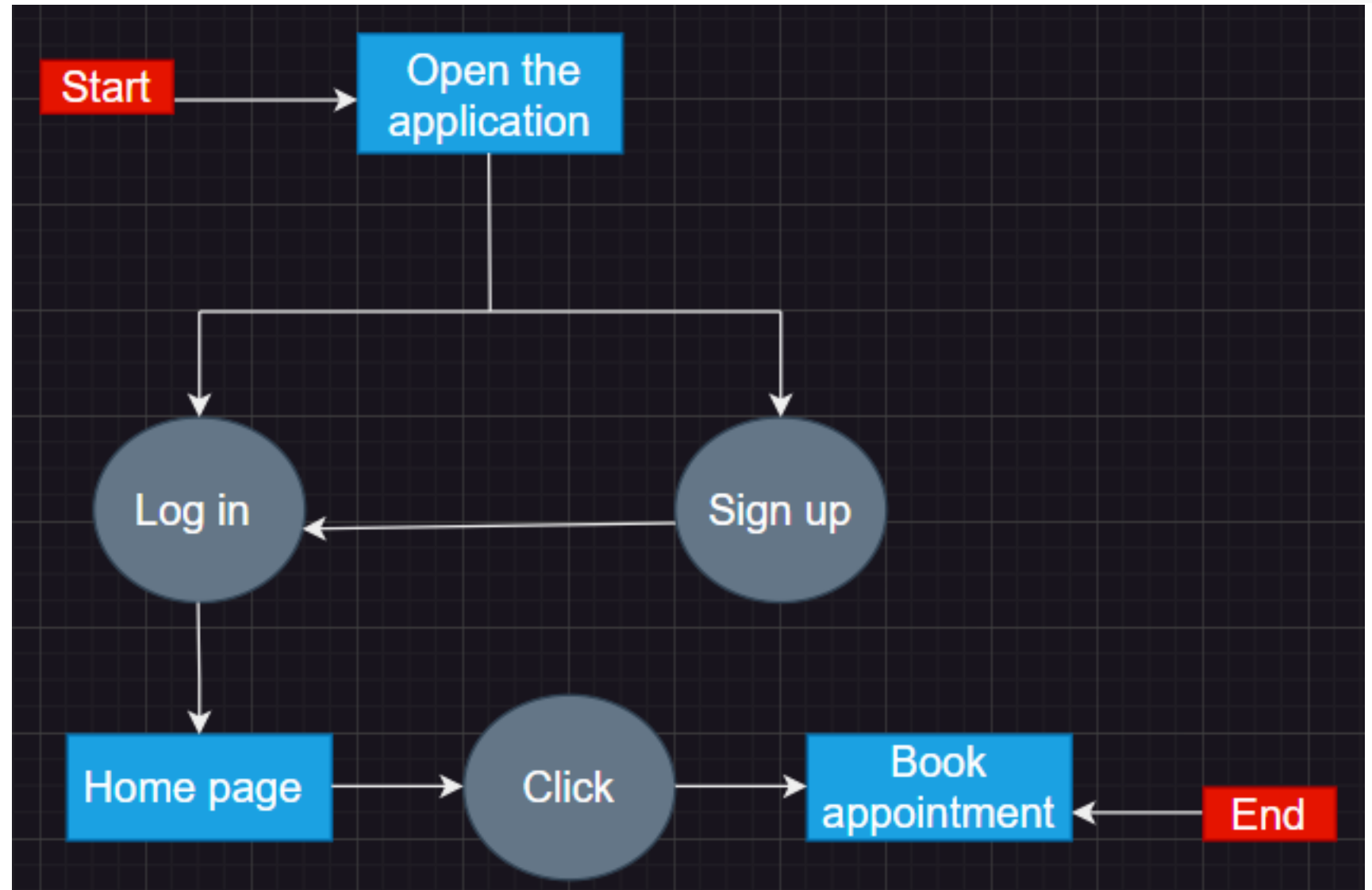
- Users must be able to search for the appointments list for all clinics.
- Users should be able to see medical reports.
- The users must be able to schedule medications.
- The user should be able to add affiliate members.
- The system must provide an ambulance request service.

*Non-functional requirements:

- The system must be able to modify data
- The system must be used in accordance with the security and privacy regulations of the ministry of health.
- The system must protect users data.



3-Activity diagram





4-Project Use Case Modelling:

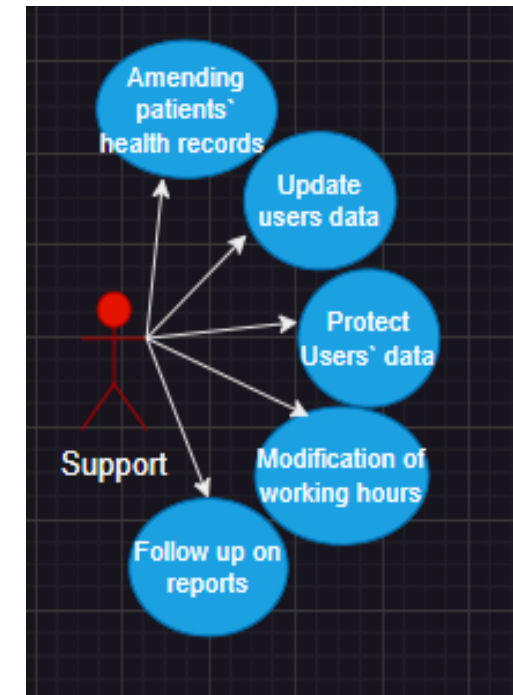
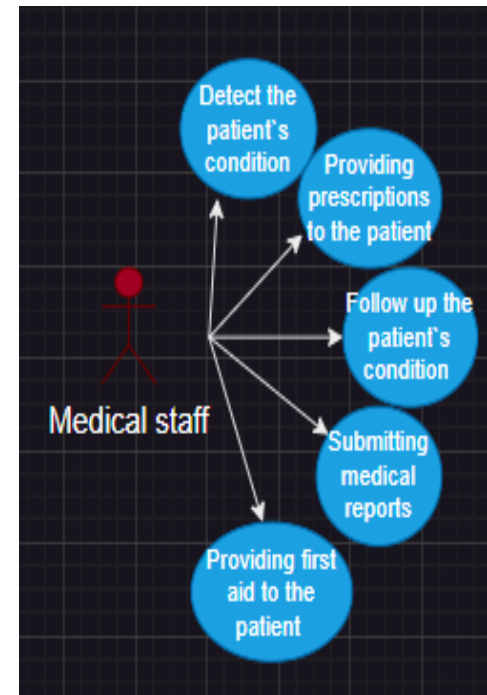
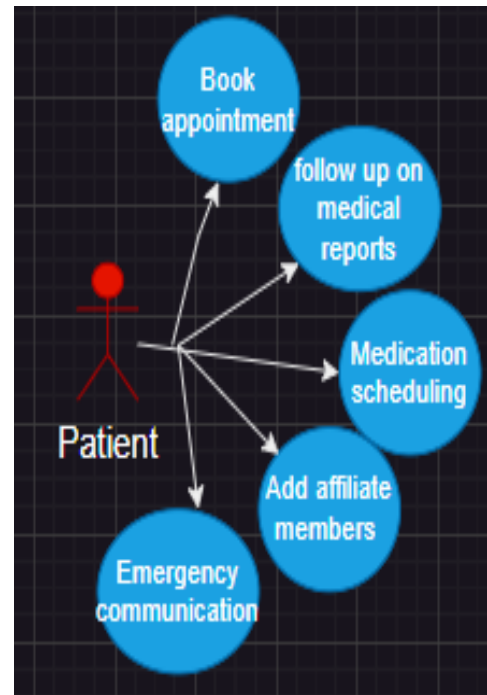
*Actors:

Actors	Rules
Patients	<ul style="list-style-type: none">▪ Book appointments▪ Follow up on medical reports▪ Medication scheduling▪ Add affiliate members
Medical staff	<ul style="list-style-type: none">▪ Detect the patient`s condition▪ Providing prescriptions to the patient▪ Follow up the patient`s condition▪ Submitting medical reports
Support	<ul style="list-style-type: none">▪ Amending patients` health records▪ Update user data▪ Protect users` data▪ Modification of working hours



4-Project Use Case Modelling:

***Use cases &its related use cases:**

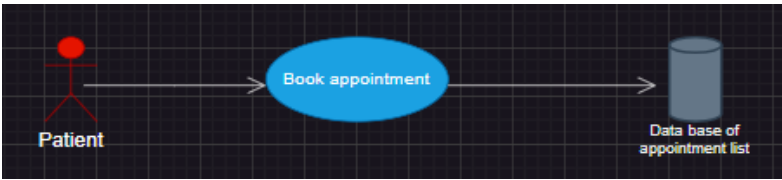




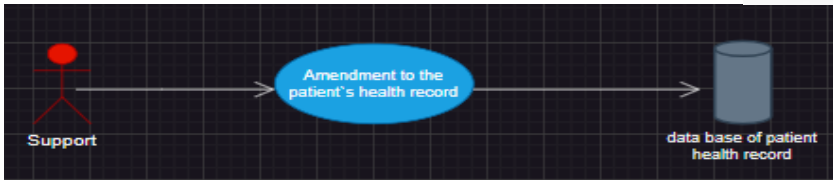
4-Project Use Case Modelling:

*Table 1:

*Table 2:



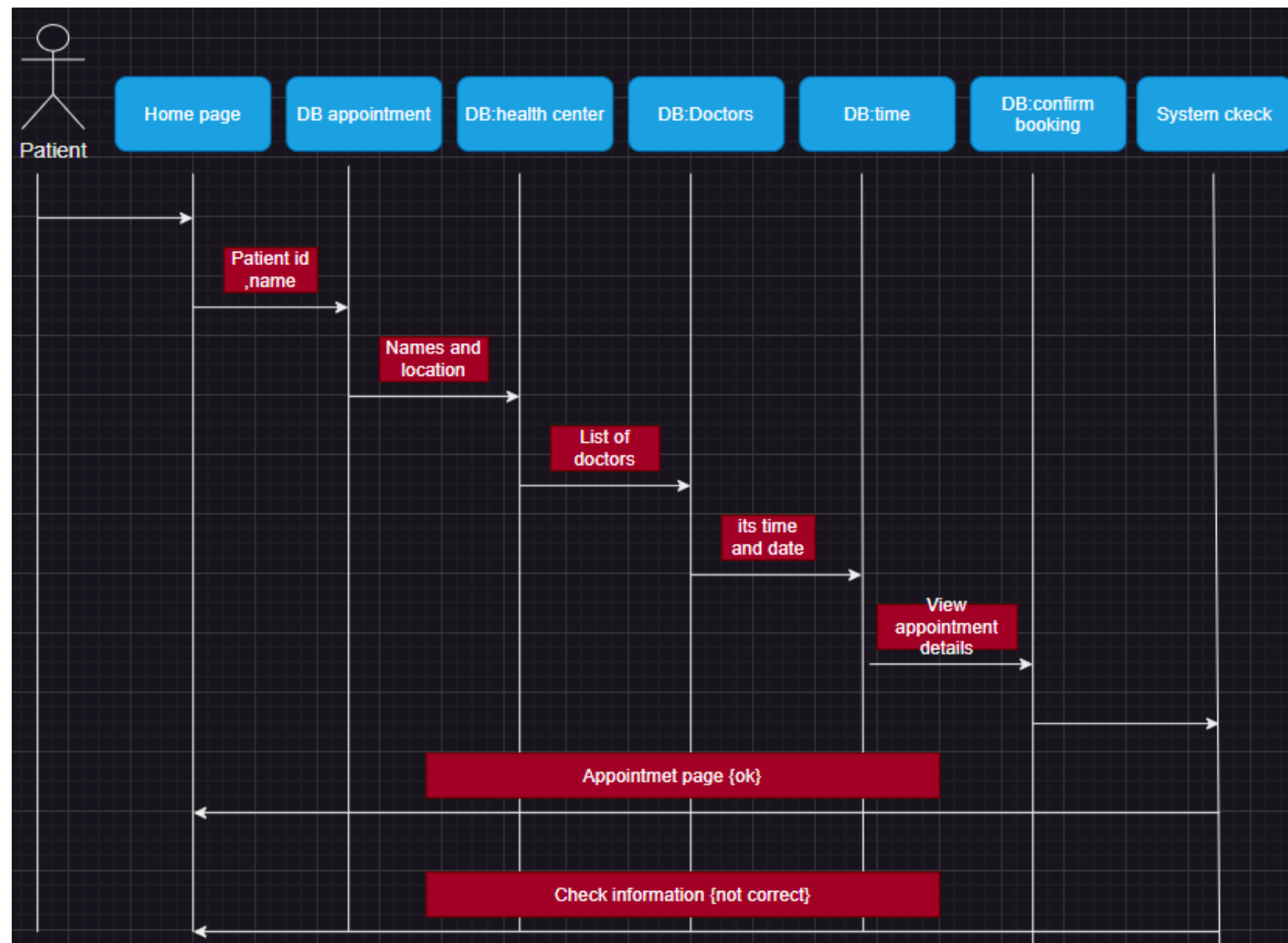
Patient: Book appointment	
Actors	patient and data base of appointments lists.
Description	This shows the interaction between patients who wants to book an appointment inside the Sehhaty app.
Data	Patient name and id, Appointment date and time
Stimulus	The patient wants to book an appointment.
Response	Review the appointment (time, date, clinic name, doctor's name)



Support: Amendment to the patient's health record	
Actors	Technical support with health record database.
Description	Explains the interaction between technical support and the patient's health record.
Data	Health record number and health record data
Stimulus	Technical support amends the health record.
Response	Modify health record information.



5–Creating Sequence Diagrams:





6-Creating a Class Diagram:

*Classes attributes + operations:

*Associations:

Patient class

- Id number (int)
- Name (string)
- Address (string)
- Phone number (int)

- New ()
- Search ()
- Update ()
- Delete ()

Ambulance class

- Phone number (int)
- Name (string)
- Type of report (string)
- Description (string)
- Address (string)

- New ()
- Search ()
- Update ()
- Delete ()

