# Proposal for Clinic information system

## **Icare Application**

## **Team name:** Abysswalkers

## **Team logo:**

Logo

Description automatically generated

* Team Members :

|  |  |  |
| --- | --- | --- |
| **Name** | **ID** | **Email** |
| Khalil Ibrahim Alsulaimani | 439007816 | [S439007816@st.uqu.edu.sa](mailto:S439007816@st.uqu.edu.sa) |
| Saher Samir Alhazmi | 439000763 | [S439000763@st.uqu.edu.sa](mailto:S439000763@st.uqu.edu.sa) |
| Abdulaziz Othman ghazi | 439004604 | [S439004604@st.uqu.edu.sa](mailto:S439004604@st.uqu.edu.sa) |

1. **Background**

Now a days applications are integrated into our daily life for both consumers and businesses therefore any business of any size needs up to date software that can do the core functions of a clinic system such as adding patients ,editing ,searching , booking appointments and has a hierarchy for the system users such receptionist , managers, and owners to maintain information integrity which is necessary to get consumers trust which will result in better profits.

There are many systems that provide that for large-scale hospitals and clinics however for their scale that results in a very expense information systems that are rigid and nonflexible with customizability and its features furthermore these large-scale applications demand high spec systems to run on which isn’t an optimal option for small to medium businesses.

That’s what gave us the idea for our proposed Application which will fix the problems we just mentioned.

1. **Project Scope**

The Application will be a desktop app that will have numerus screens that will be very user friendly and simple to use.

1. **Project Description**

Our application is a desktop application that will run on minimum low spec systems that will provide all core functionalities for a small to medium clinic which are :

* Having hierarchy of information access which will provide data hiding
* Support one Admin Account to control privileges
* Create , Read , Update and Delete (CRUD) operations on Mangers
* CRUD operations on receptionist
* CRUD operations on patients
* CRUD operations on doctors
* Book appointments by date and doctor
* Not allow overlapping appointments
* Displaying appoints for same day
* Display list of doctors
* Log all sign in/out operations in a file named with the date and inside it saves who signed in/out and at what time
* After making a new and giving it a default password, which will be changed after the user first signs as they will be prompted with screen which will keep getting displayed till the password has been changed
* Set maximum daily appoints for patient to 3

1. **Expected outcome**

* Ease of use
* Save money for consumer (the clinic)
* Run smoothly on any device
* Effective at booking appointments
* Save time

1. **Method/Approach**

We will select the scrum method for our project because , the team is made up of developers with different degrees thus making pair programming and collective ownership not easily achieved , therefore scrum will be more suited for our project as it can broken down into small packages which we can add to the project backlog and each developer can work on the parts they specialize in and things can cleared up in the scrum meetings so everyone is on the same page. As for the projects tools we will be using the following :

* For the frontend: will be done using JavaFX and CSS on the NetBeans IDE.
* For the backend : will be done using java for the controller classes and MYSQL for the database.

As we will be using scrum we will have multiple scrum cycles which will be broken down into the following sprints :

Sprint 1: collect requirements from customer.

Sprint 2: create project backlog and design interfaces.

Sprint 3:create database and take customer feedback on interface design and implant the changes on the interfaces.

Sprint 4: create test case for all interfaces which will run after implanting backend.

Sprint 5: implement owner and manger screen and login part with logging of sign ins and outs.

Sprint 6: implement receptionist screen and run tests on all screens and fix any errors.

**6- References**

[**https://digitalguardian.com/blog/what-health-information-system**](https://digitalguardian.com/blog/what-health-information-system)

[**https://www.scott-clark.com/blog/types-of-information-systems-used-in-healthcare-facilities/**](https://www.scott-clark.com/blog/types-of-information-systems-used-in-healthcare-facilities/)