UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UTM PKU Appointment System

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Introduction

Our mini project is an appointment system for Universiti Teknologi Malaysia's Pusat Kesihatan UTM. It helps staff track patients and prevent overcrowding. The system can add, display, delete, search for patients and exit. We used a queue linked list for adding, displaying, and deleting patients, and a searching method for searching patients.

Objective

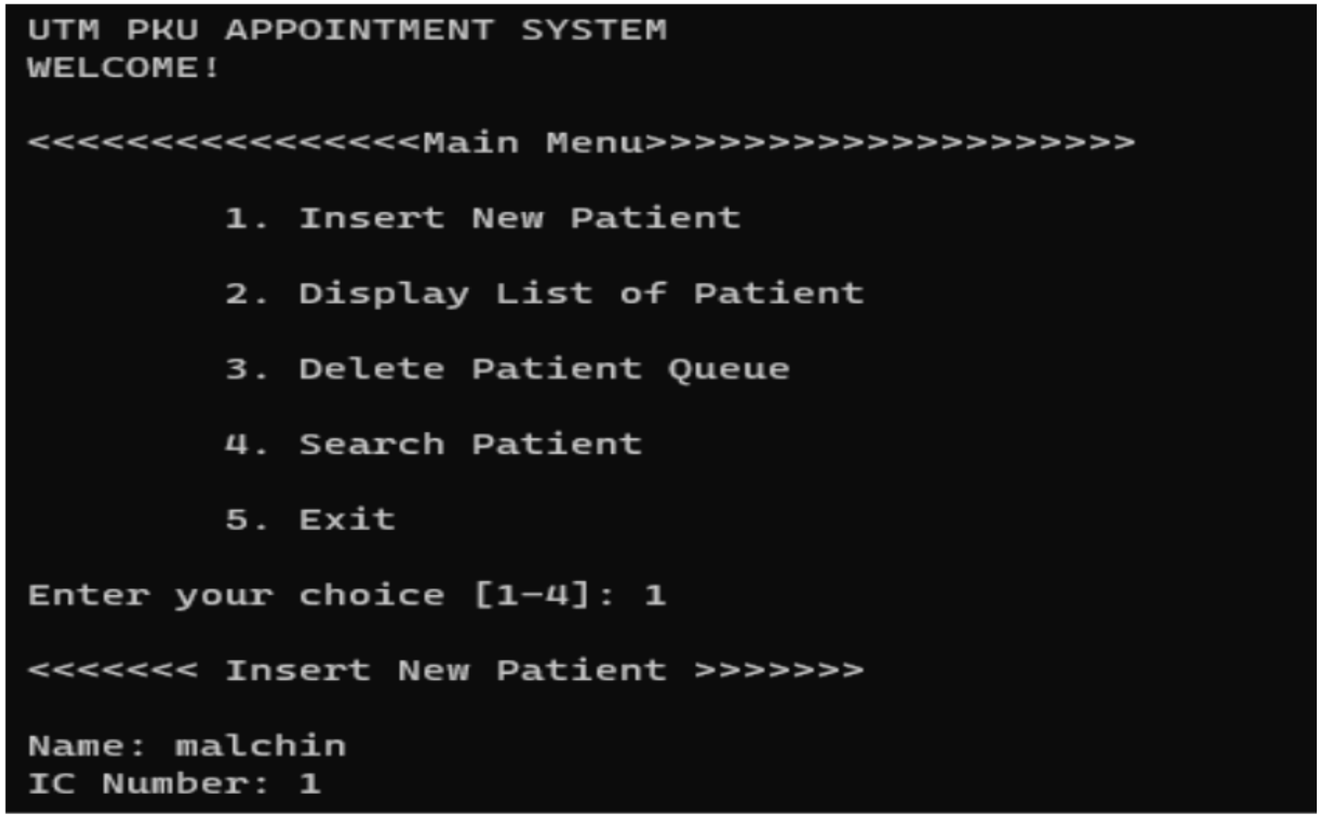
- Standardization of patients registration process
- Uniform data management
- Increase the efficiency of data entry, query and deletion, in terms of time
- Produce an easy to understand interface
- Ease of navigation to improve user experience
- Customization of size of patients intake

Description of each use case

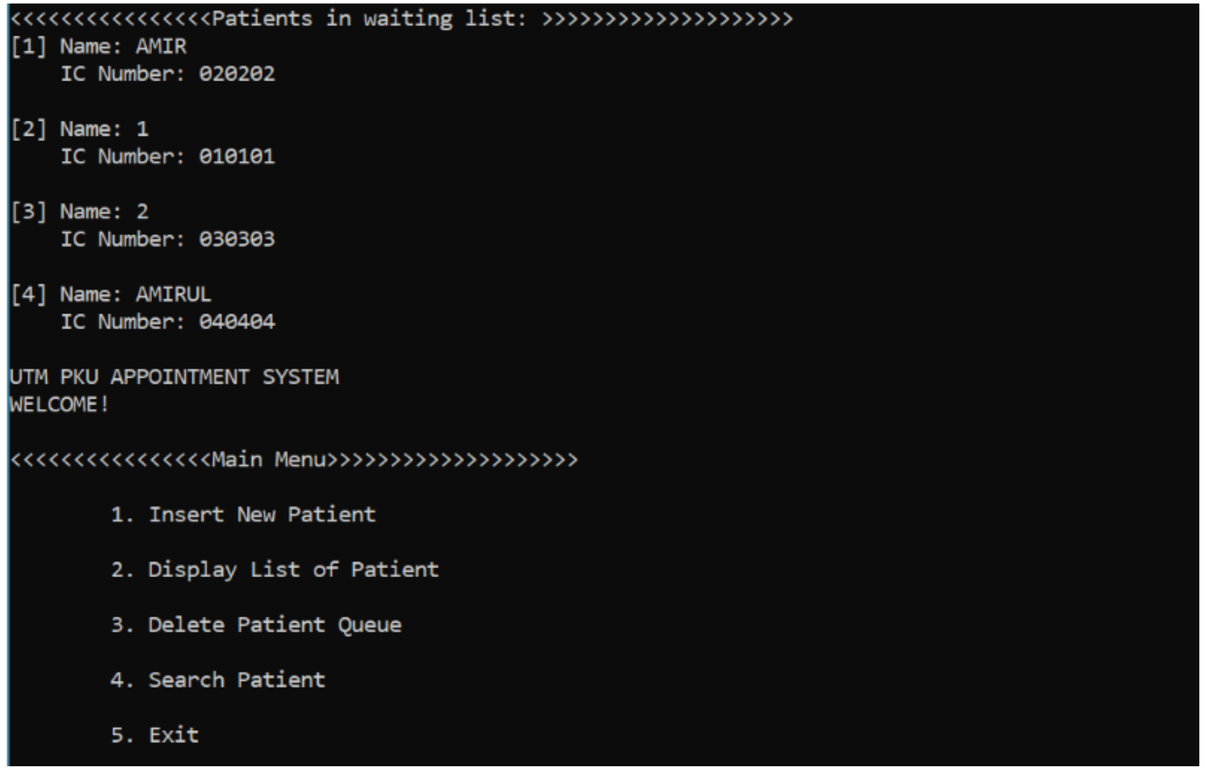
Insert new patient

Insert new patient, and their information in the queue list. If the list is full, staff cannot enter new patient in the queue list.

The user enters number ‘1’ to go to the insert new patient display. The user must enter the name and IC number that the user wants to add in the appointment queue. If the queue is full, it will display “Queue is full!” and user unable to insert a new patient in the appointment queue.



Display list of patient



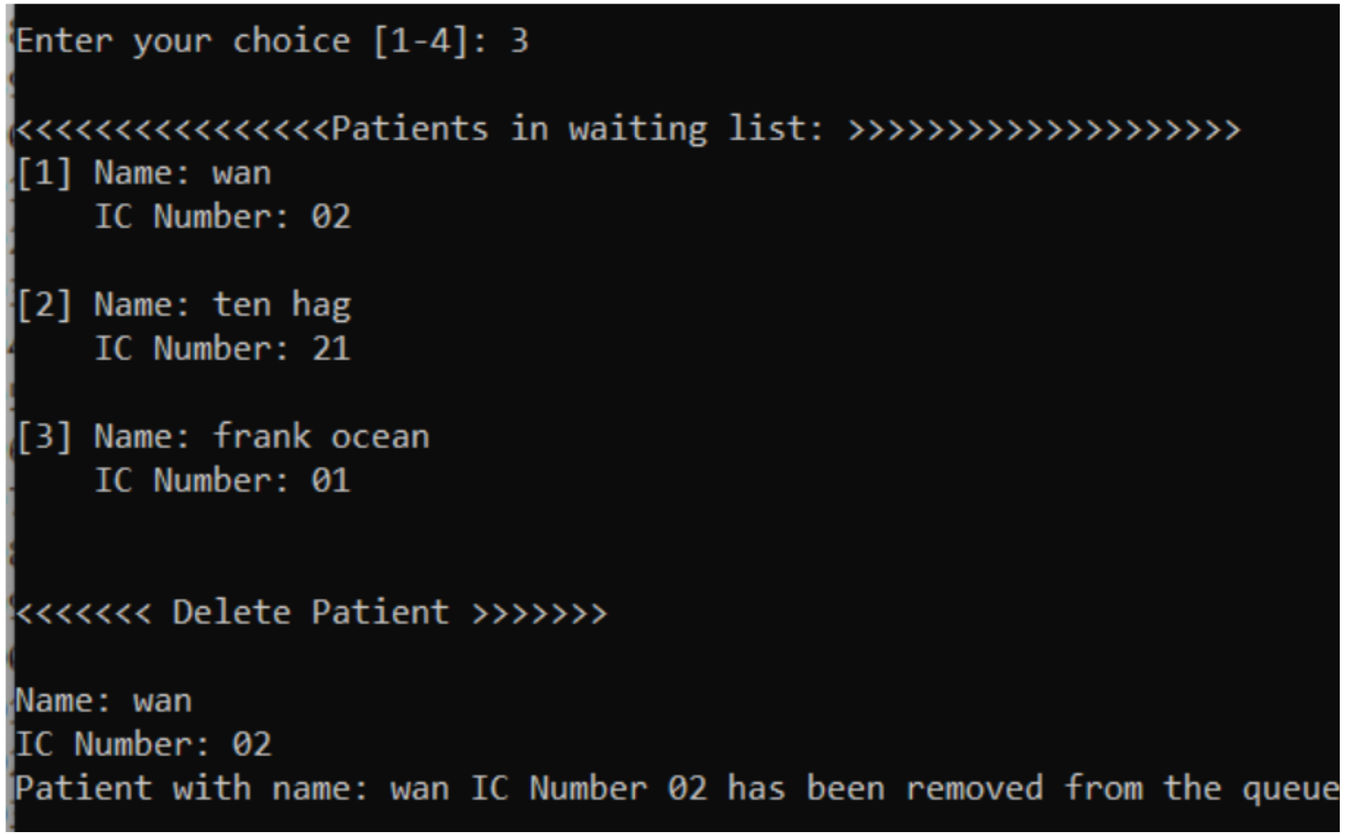
Provide choices for the user to perform certain operations in the system and display the list of all patients in the waiting list.

This screen assists in the process of displaying the queue. First, when the user enters value ‘2’ they will be directed to the display feature of our system. Here our system produces a screen where it displays all the users that are currently in the waiting queue, along with their information entered into the system like Name and IC Number. We can see from the screen above, the lists are displayed in order, where number [1] is the first person to get in the queue and into the list. This way, it mimics the real way of queueing.

Delete patient

Delete patient from queue if the queue is not empty

The user enters number ‘3’ to go to the Delete Patient Queue display. The user must enter the name and IC number that the user wants to delete in the appointment queue. If the queue is emptyl, it will display “Queue is empty, no patient to remove!” and will redirect the user to main menu. If the name that the user entered is not in the queue the system will display “ Patient is not found” and will redirect the user to main menu.



Search patient

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<<<<<<<<<<<<<<<<Patients in waiting list: >>>>>>>>>>>>>>>>>>>>
[1] Name: malchin
    IC Number: 1

[2] Name: malsis
    IC Number: 2

[3] Name: jamil
    IC Number: 3

[4] Name: wanmirul
    IC Number: 4

<<<<<<< Search Patient >>>>>>>


Name: wanmirul
IC Number: 4

Patient with name: wanmirul IC Number 4 exist in the queue
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Search for any existing patient inside the queue.

The user must enter number ‘4’ to go to the search patient display. The user must enter a specific name and IC number that the user wants to find. If the name and the IC number is the same as the system, it will display the name and IC of it. But, if the searched user is not found, it will display an error where it says the user is not found.

Exit system

Exit the system, bye!

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