NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES
(KARACHI CAMPUS)
FAST School of Computing
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PROGRAMMING FUNDAMENTALS FINAL PROJECT

Project Title: [Psychological Clinic Management System]

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INTRICACIES PERTAINING TO THE PROJECT

Psychological Clinic Management System is a tool that could be used by small-scaled psychologists to manage their clients' data and appointments. The application also furnishes features to clients who can compute their level of stress and book an appointment with the psychologist

LIBRARIES USED

For basic input/output functions and file handling
#include <stdio.h>
To use strcpy function in deleteInformation(stptr)
#include <string.h>
To use exit () function
#include <stdlib.h>
To use sleep function while recursively calling main
#include <windows.h>
#include <unistd.h>
To counter memory holes/leakage due to usage of structures
#pragma pack(1)

FEATURES

- Login System
- Perceived Stress Scale
- Add/Modify/Delete/View Client's information
- Search relevant Clients using partial information
- Book and View Appointments

C LANGUAGE CONCEPTS USED

Control Statements:
- If/else statements
- Switch-case statements

Iterative Control Statements:
- Counter-controlled loop
- Sentinel loops

Arrays:
- Integer Array
- Character Array

Functions:
- Pass by Value
- Pass by Reference
- Recursive Call

Structures:
- Heterogenous Memory allocation

Pointers:

- Pointers with Array
- Pointers with Structures
- Dynamic Memory Allocation
- File Handling

FLOWCHART

Enclosed with the document