CIST 2931 Capstone Project

Sprint 2019

Scenario

You have been contacted by a large healthcare organization. They are in need of software that will assist in their company’s administrative activities.

Specifically, the software needs to be able to:

1. Register doctors, their specialties, and their available schedules.
2. Register patients, track their visitation history, and the results of each visit (why they came, their diagnosis, and their treatment (if any was given).
3. View the medical history for a given patient (the history should include past diagnosis, treatments, and physicians seen)
4. View doctors by specialty
5. Remove existing doctors
6. Remove existing patients
7. Provide a calendar that shows appointments for a given time period
8. Create/Cancel appointments. Patients should be given the option to choose which physician they would like to see. (creating or cancelling an appointment should subsequently update the calendar)
9. Provide persistence for all data so that all information remains intact when your program exits (a flat file will suffice).

You will need to provide a prototype and demonstrate its functionality. The program must be well-thought out and must have a well-designed graphical user interface. Launching the program should cause a window to appear in full screen mode. The UI should follow acceptable GUI standards.

Remember that this application will be used by an office receptionist. They will likely have a high school education and will not be completely comfortable with computers or computer software. Therefore, the client has stressed that your program be a very intuitive and menu-driven program that prevents the need for a lot of data validation.

Identify roadblocks immediately. If they cannot be resolved within the group, contact the instructor.

Deliverables

Your group will need to prepare a professional presentation that consists of a product demonstration. To keep your client interested, choose at least two people from your group to present your product. Each should appear knowledgeable about the product and show a reasonable comfort level with speaking.

Your group will submit a zip file containing all source code and project documentation.

Approach

Discuss the requirements within your group. Decide roles (who will do what). Remember that members should be prepared to learn something new. Discuss timelines. It may be a good idea to designate a member to take notes and summarize each meeting in order to prevent confusion.

Remember that you are working with a client and that requirements are subject to change. Be prepared to accommodate requests.

Apply the concepts that you learn each week to the project.