

## Project Phase 2

### Overview

Continue working on phase 1 and integrate JavaFX UI for data entry and Files for data saving. Phase 2 will be submitted as a new project.

### Objectives:

- Master **JavaFX** forms and various controls for data entry.
- Understand files data persistence, and **File Handling**: saved to a text file.
- Apply object-oriented programming principals.
- Apply Exception-Handling techniques.

In project phase 2, you will work on **part** of the classes you created in phase 1, and add a JavaFX form for data entry and saving of data on files. More specifically, you will create new project, import the following classes from phase 1:

1. Patient
2. Visit
3. Incident
4. Clinic

Add new class **FileManager**, which will be responsible for saving (appending) data on files. The class should have a method named `savePatientVisit(Patient)` which will receive a Patient object associated with Incident and Clinic objects and save them on text file.

### Main features:

1. Create new project, and import above-mentioned classes from phase 1.
2. Create new class `FileManager` that will be responsible for saving all data to a file. The new data saved should be appended to file. You need to decide on how `FileManager` will save data on file, and what the delimiters ( ; , | , - ) will be.
3. Create new JavaFX form that will enable the user to enter the information of Patient, Incident, and clinic.

- a. The JavaFX form should contain various controls such as labels, text fields, combo boxes, radio and check boxes and of course buttons.
  - b. You are free to design the form in any way you like. **But no two students can have same design.**
  - c. The Form should contain an option to save entered data to file using FileManager. All data should be saved in one file.
  - d. The form should validate data if something is missing or incorrect and alert the user to correct data if anything is missing.
  - e. The form should contain and option to clear all form data.
4. Each time the form will allow the user to save **one** Patient, Clinic, and Incident information to text file.
  5. Your code shall follow object-oriented best practices you learned and be well commented.

سيكون التقييم بناءً على نقاش وجهها لوجه مع كل طالب، حيث سيتم نقاش الفيز الأولى التي تم تسليمها سابقاً والفيز الثانية.

سيتم فحص نسبة التشابه بين الطلاب.

#### Submission:

- After you finish coding phase 2, you need to export your project as archive file and send it as an attachment reply to this message only.
- **Due date is 25/1/2026**

مرفق أيضاً توضيح دقيق لكيفية عمل export project on Eclipse