Management of a Training Platform

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1 / Project Overview

o This project is a Java-based application for managing formations, students and trainers;

2 / Objectives

o 1. Simplify formation management.

o 2. Provide user-friendly GUI interfaces.
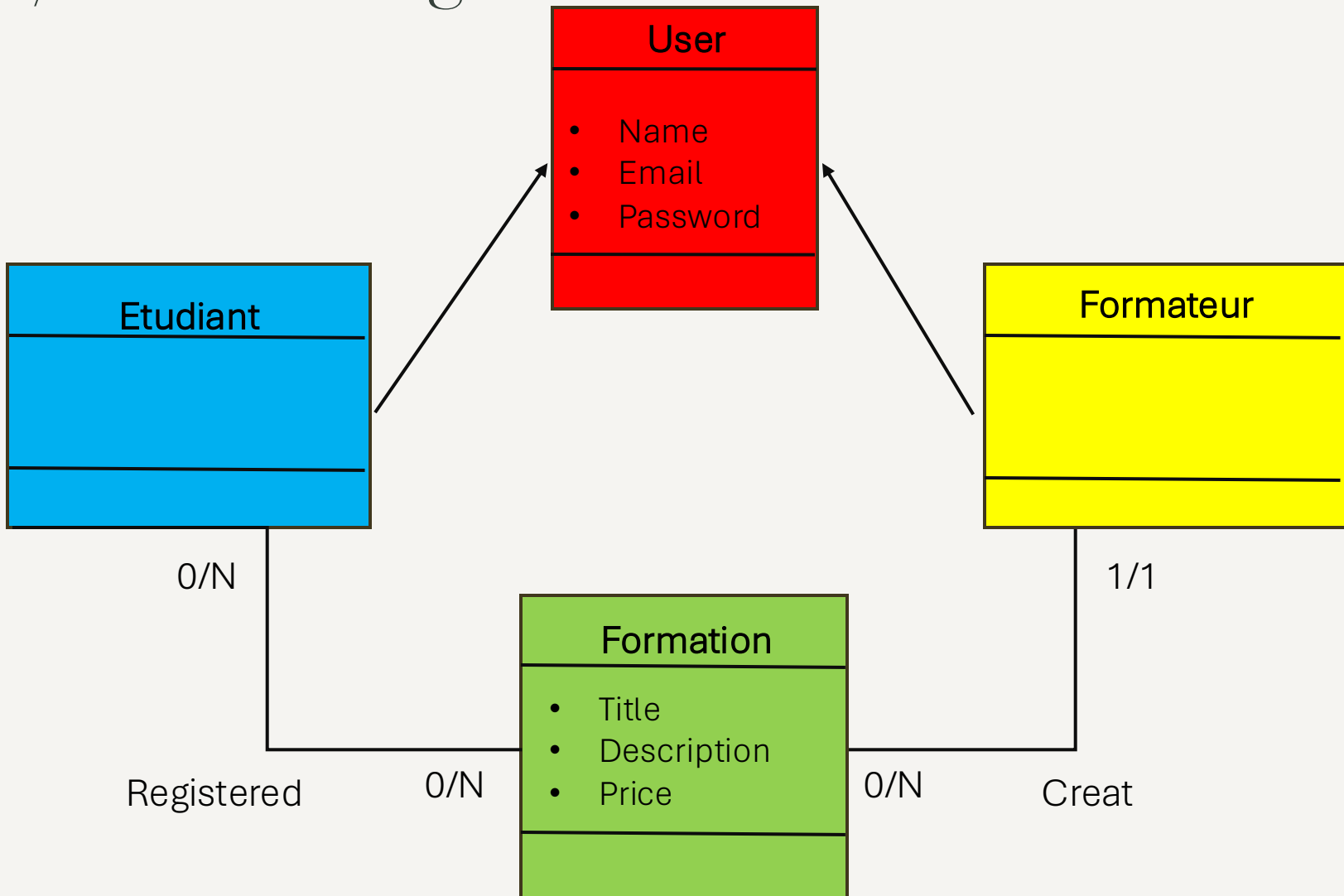
o 3. Ensure seamless database integration.

3 / Features

o 1. CRUD operations for students, trainers, and formations.

o 2. Intuitive GUI interfaces for interaction.

o 3. Robust database handling with MySQL.

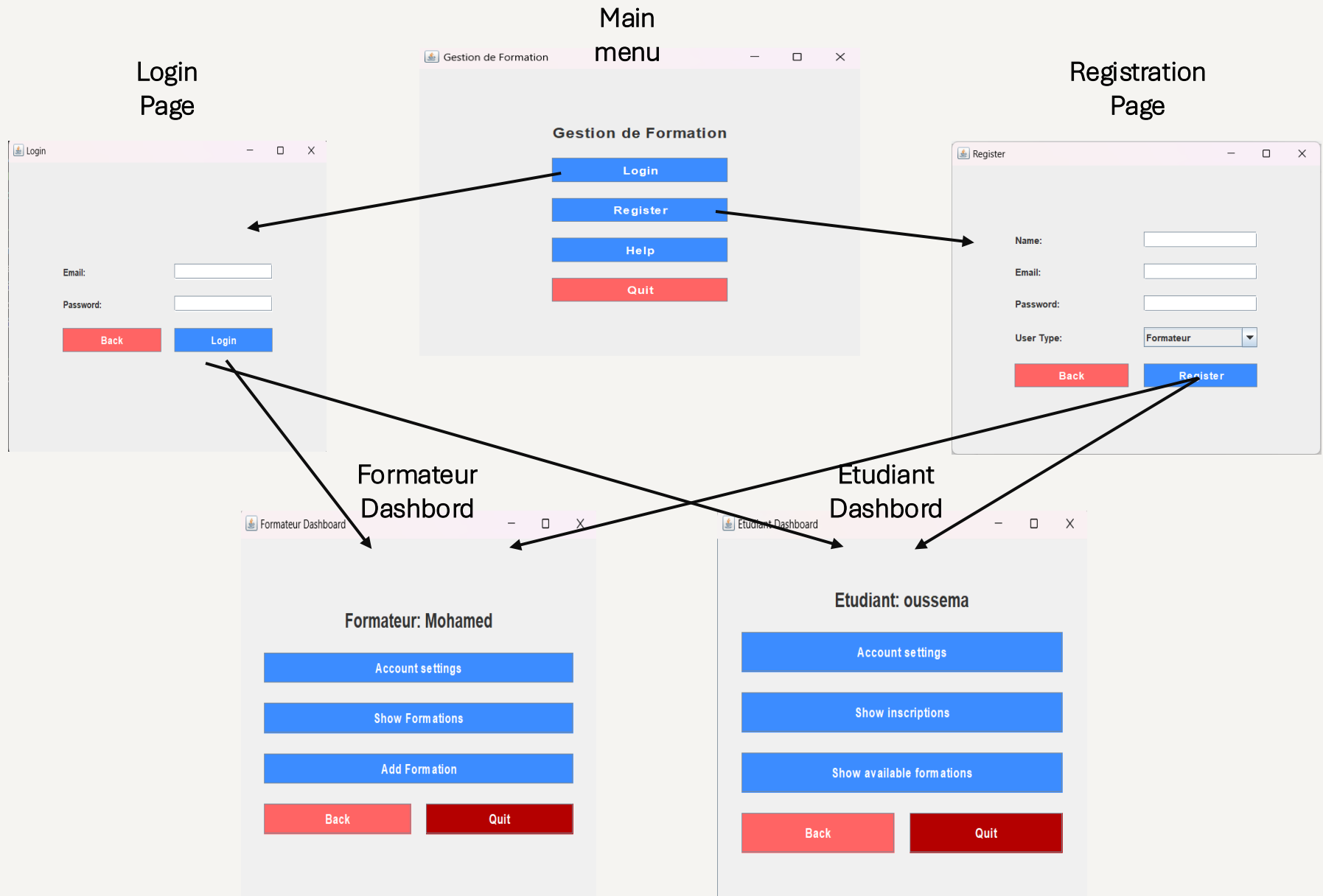o 4.Handling all the exceptions with tray/catch block

4 / Technologies Used

o 1. Programming: Java

o 2. GUI: Swing/AWT (Swing and Awt libreries)

o 3. Database: MySQL (connected to java project using JDBC Module)
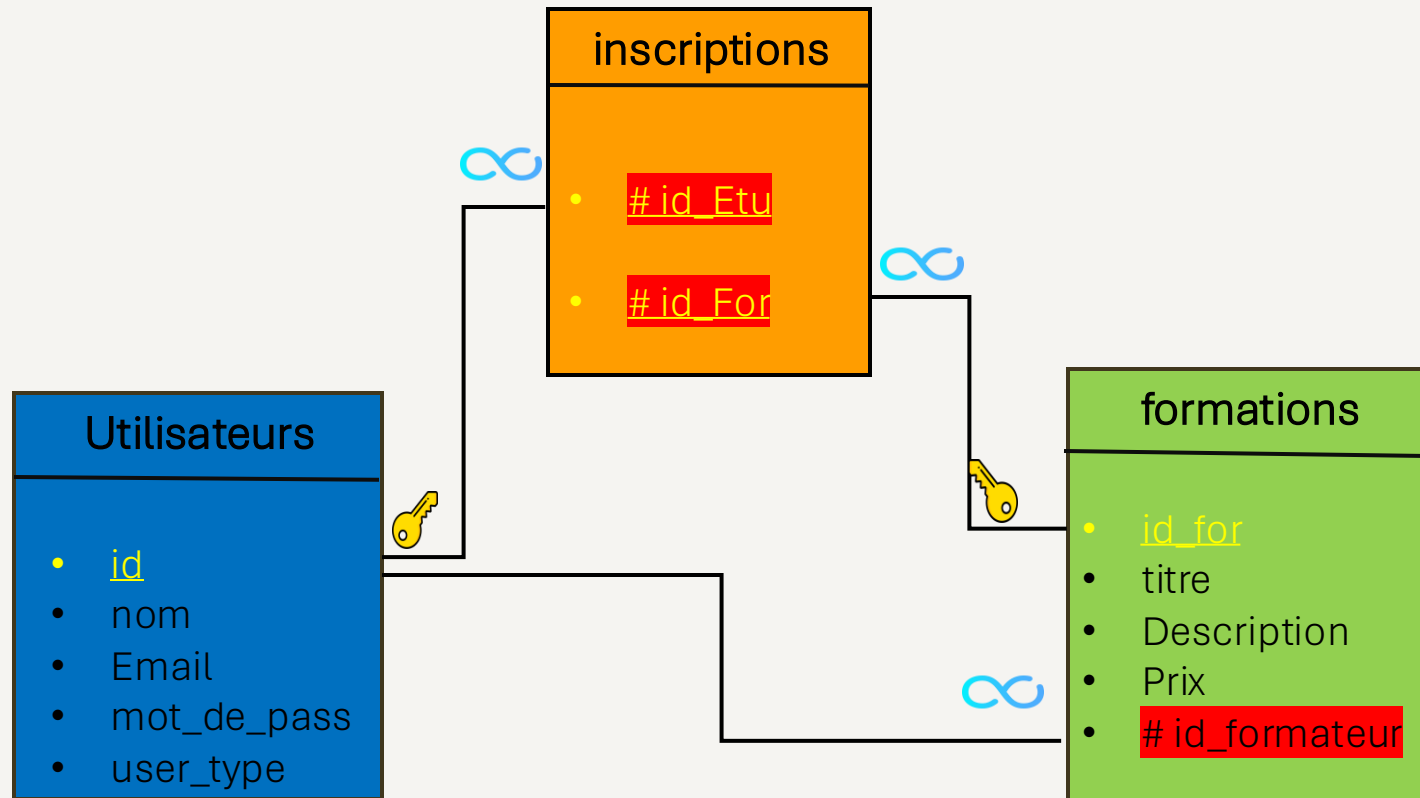
o 4. Tools: MySQL Workbench, VSCode

5 / Classes Diagram

6 / GUI Design

Main menu

Login Page

Registration Page

Formateur Dashbord

Etudiant Dashbord
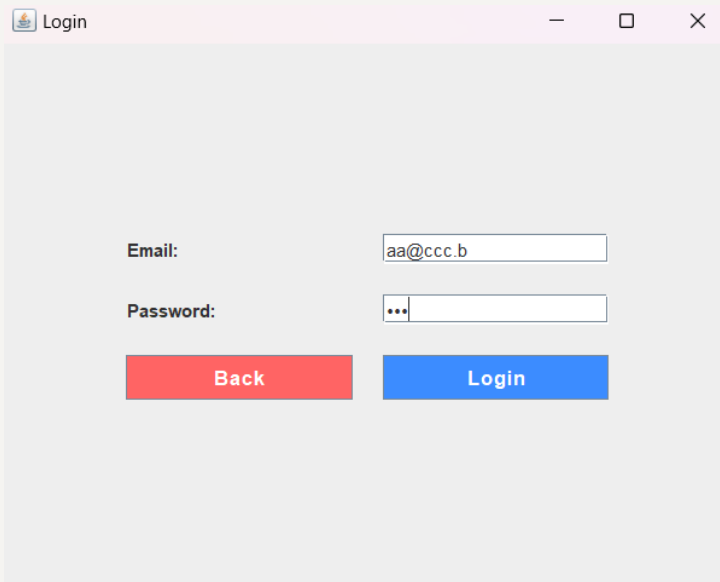
7 / Database graphical presentation

(SQL scripts and MySQL Workbench models are provided.)
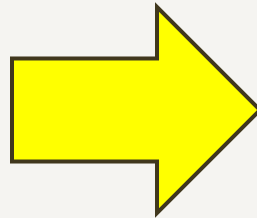
8 / Exceptions

- This program can handle exceptions in various ways, for example, when trying to log in with a non-existent account.
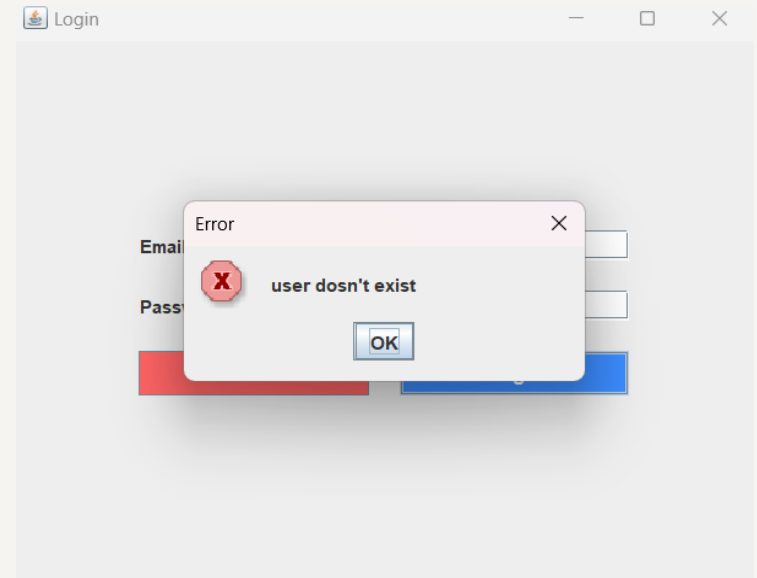

Log in with non-existent account

Handling Exception

9 / Conclusion and Future Scope

- Conclusion: A complete formation management system.

- Future Scope:
  - o   1. Add more features.
  - o   2. Optimize performance.
  - o   3. Transition to a web-based platform or a mobile application.