

## 2. Objectives

- Adjust the GUI to correctly display all course names and related data.
  - Integrate the course rating feature, as found in the CLI version.
  - Identify and fix any errors or bugs in the current implementation.
  - Enhance the guest user experience, registration, and login forms for better usability.
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## 3. Tasks & Modifications

### 3.1 Adjusting Course Display

- Ensure course names are properly aligned and formatted within the GUI I in the files
- Display additional course data (description, difficulty level, etc.) in a clean and organized layout.

### 3.2 Adding Course Rating Feature

- Implement a rating system in the GUI allowing users to rate courses (e.g., from 1 to 5 stars).
- Display average course rating beside each course entry.
- Persist rating data (e.g., using serialization or file/database storage).
- Update `CourseManagerService` and GUI components to support and reflect this feature.

### 3.3 Bug Fixes & Error Handling

- Review all GUI components for crashes or logical errors.
- Add validation checks (e.g., empty input fields, invalid characters).
- Improve exception handling and user feedback.

### 3.4 Enhancing Guest Menu

- Refine the layout and accessibility of the guest menu.
- Add brief instructions or tips for guests navigating the system.
- Limit guest actions appropriately while keeping the UI engaging.

### 3.5 Improving Registration & Login

- Apply form validation (e.g., password strength, email format).
- Add feedback messages for successful registration or login failures.
- Design a clean and modern UI layout using JavaFX (labels, icons, password fields).
- Optionally: integrate simple encryption (e.g., hashing) for password storage.