4. Class Diagram

Purpose: Demonstrates system architecture and object responsibilities using three layers:

a) Presentation Layer

• AdminUI, EmployerUI, GraduateUI: Interfaces used to render dashboards, profile editors, and verification tools.

b) Business Layer

- Controllers (AdminController, EmployerController, GraduateController) encapsulate core logic.
- Services handle search logic, analytics, and notifications.

c) Persistence Layer

 Repositories manage saving, querying, and updating entities like graduates, employers, certifications, and shortlist actions.

d) Domain Models

- Graduate, Employer, Shortlist, and Certification: Represent core entities in the system.
- Encapsulate profile details, verification status, and shortlisting history.

Relationships:

- UI classes invoke Controllers
- Controllers use Repositories and Services
- · Services access lower-layer repositories
- Entities are persisted via their associated repositories