User

-UserID: String

-UserName: String

-id: String

+login()

+logout()

+profit()

Student

-enrolledCourses:
List<Course>
-Certificates:
List< Certificate>

+enrollCourses(Course
course

-takeQuiz(Quiz quiz)

Instructor

-createCourses:
List<Course>
-createCorses
(courseTitle: String
description: String)

-uploadLesson
(course: Lesson)

-designQuiz(quiz: Quiz)

Admin

-manageUsers

-approveCourse
(course: Course)

-removeCourse
(course: Course)
-monitorAnalytics()

Course

-CourseID: String

-title: String

-description: String

-lessons: List<Lesson>

Lesson

-lessonID: String

-title: String

-content: String

-resources: String

+displayLesson()

Quiz

-quizID: String

-questions: List
<Question>

+generateCertificate()
+viewCertificate()

Question

-questionID: String

-questionText: String

-options: List<String>

-correctAnswer: String

-checkAnswer(answer:
String): boolean

Analytics

-student: Student

-completedCourse: int

-totalTimeSpent:
double

-averageQuizScore:
doble

The Class Diagram represents the static structure of the SkillForge platform.

It identifies the main classes such as User, Course, Lesson, Quiz, and Certificate, along with
their attributes, methods, and relationships.

This diagram is important because it defines the data model and the structural design used to
implement system functionality.