



The SkillForge class diagram models the main system structure and relationships between the classes. The “User” superclass is inherited by “Student”, “Instructor”, and “Admin” classes, each with specific roles. Courses are created by instructors and are composed of lessons and quizzes, while Students can enroll, complete them, and earn Certificates tracked by the Analytics module. Service classes and the “JsonDatabaseManager” class handle business logic and data storage, ensuring clear separation between system layers.