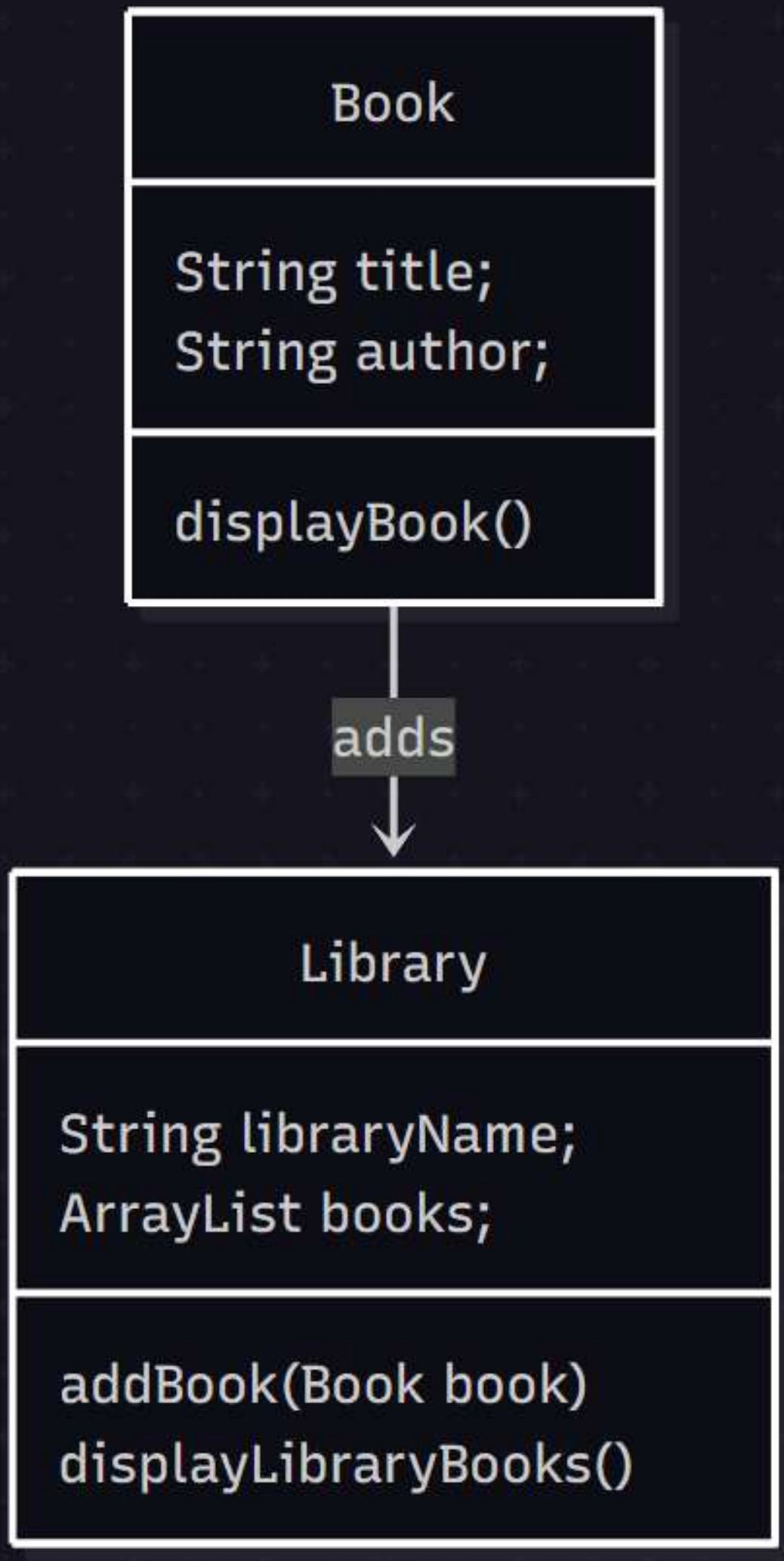
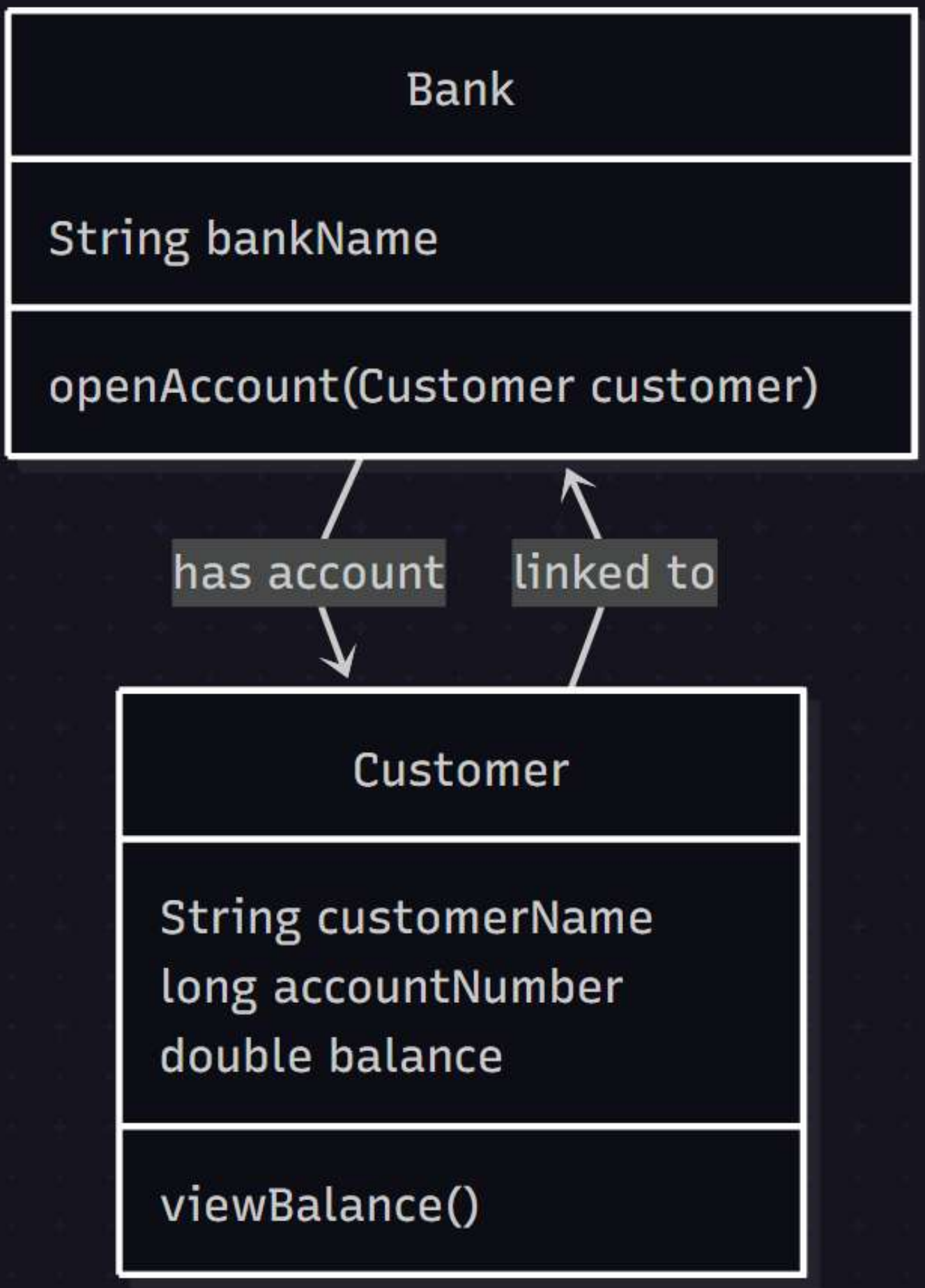
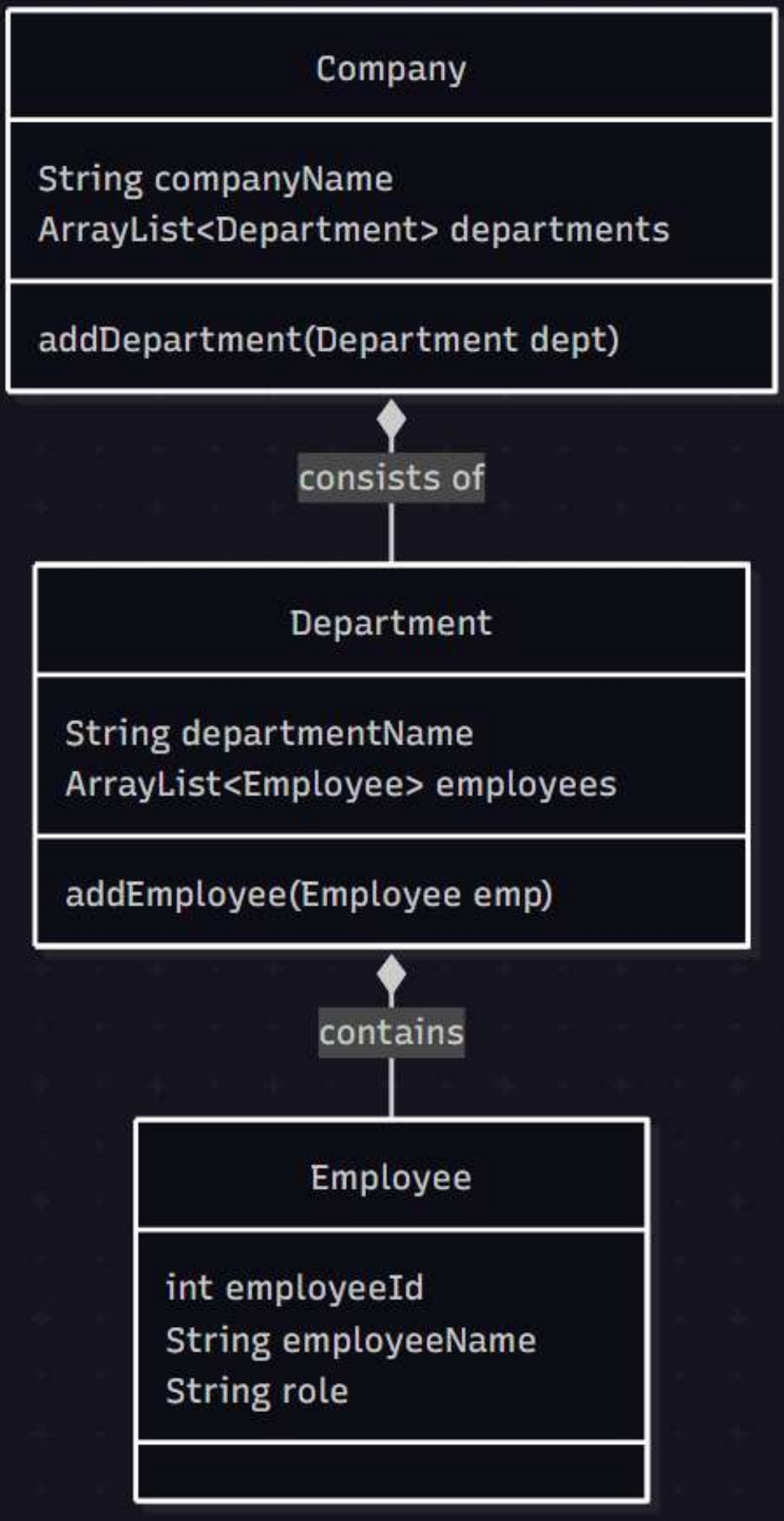
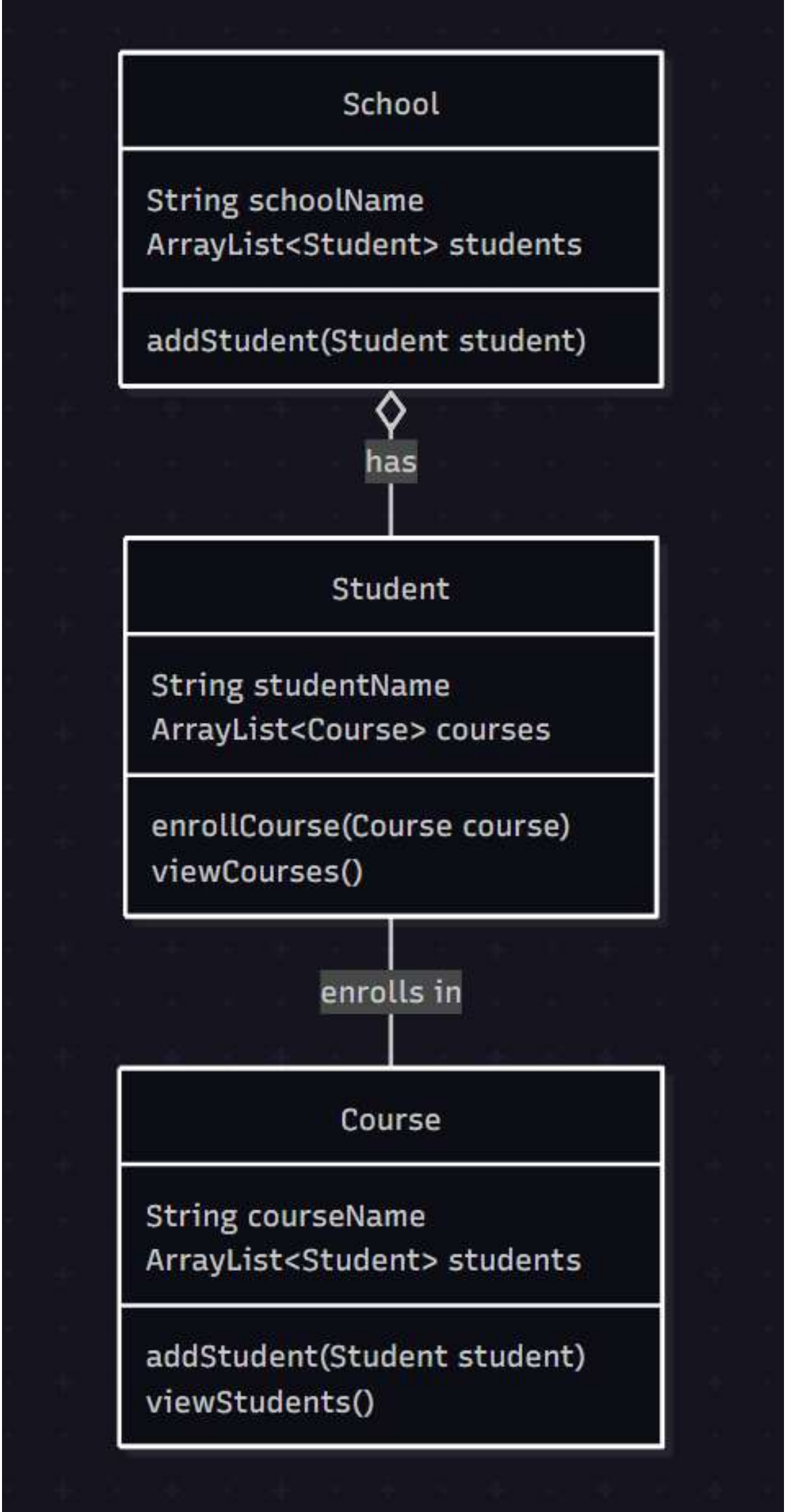
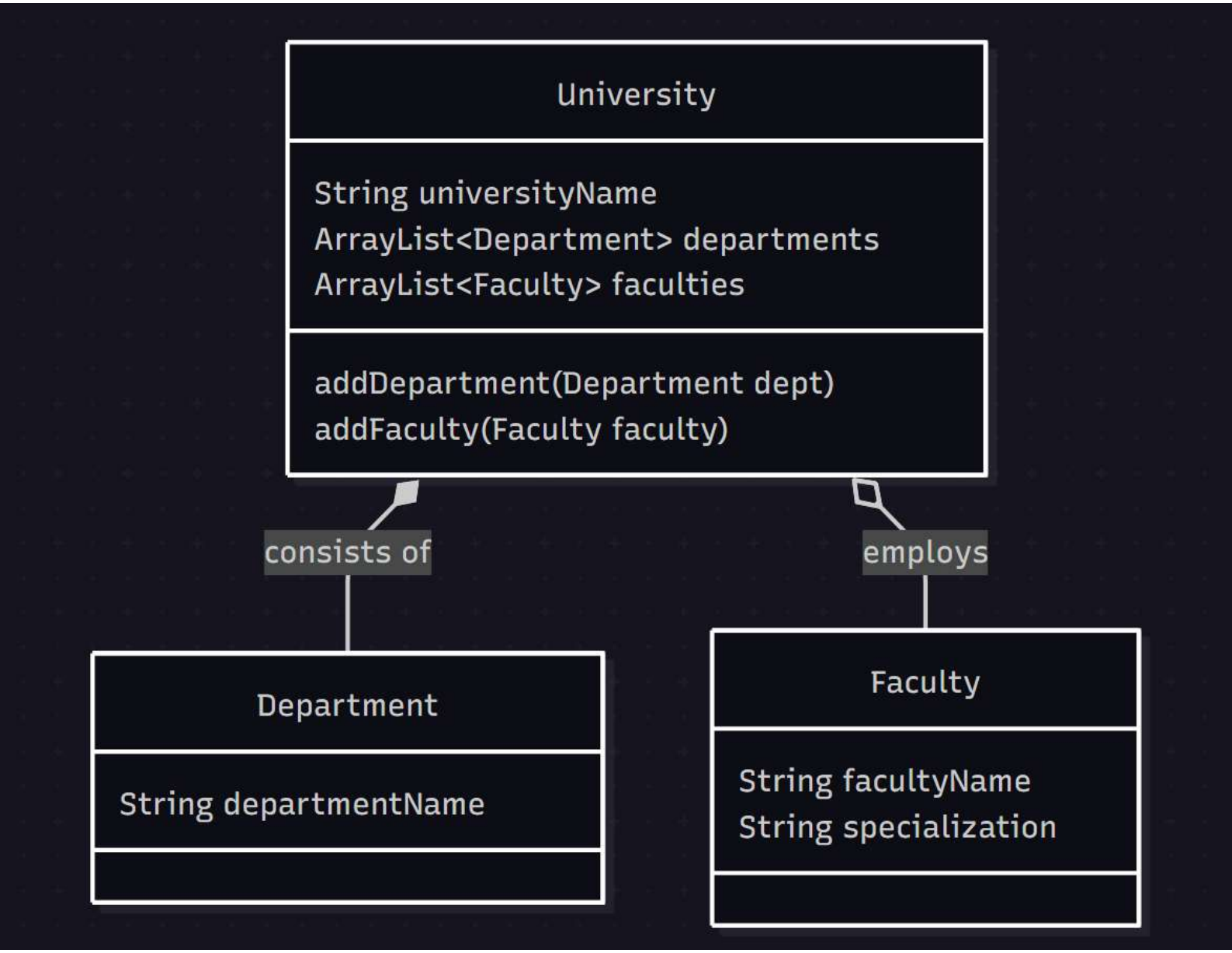
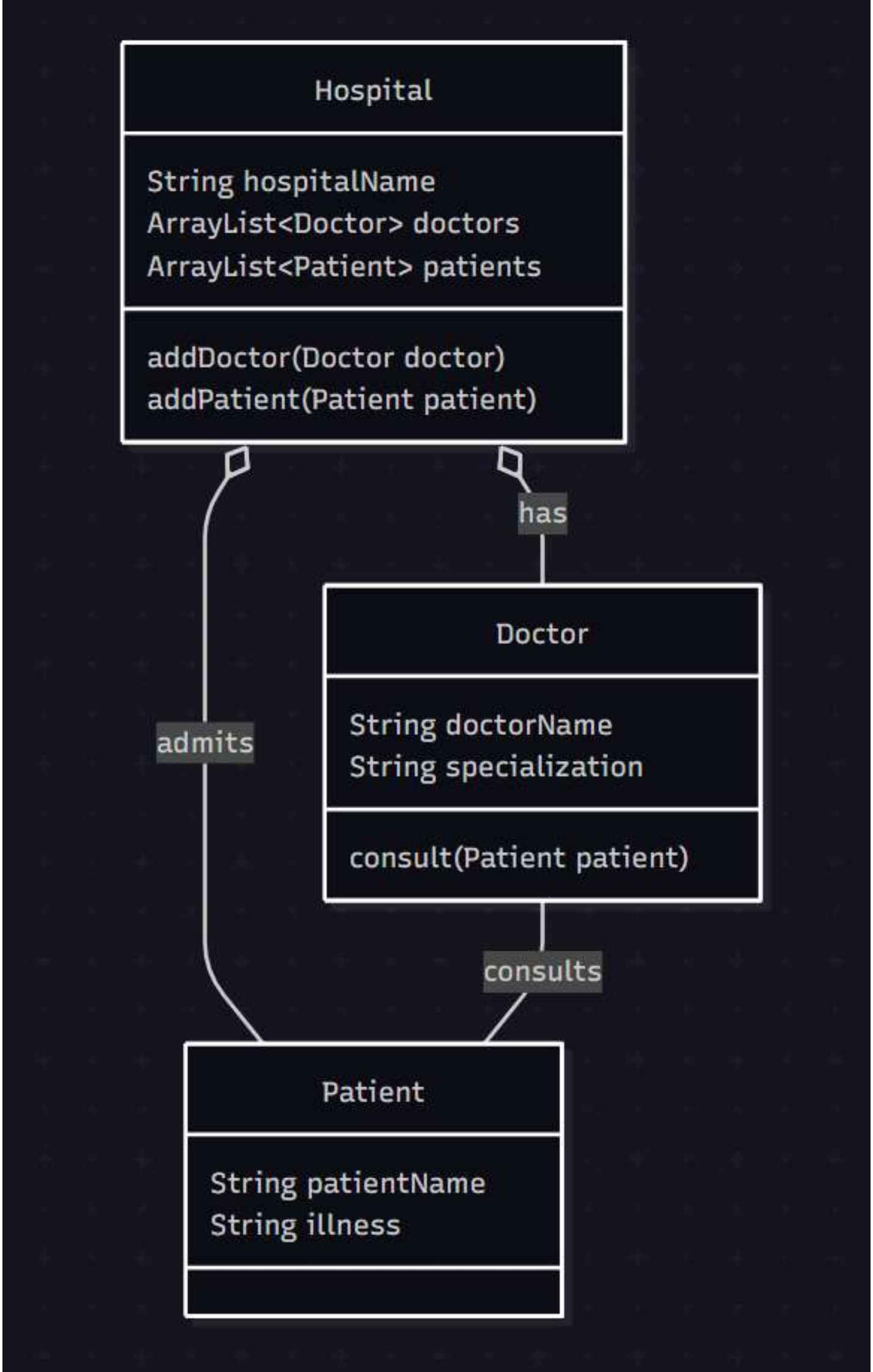

Book
String title;
String author;
displayBook()
adds
Library
String libraryName;
ArrayList books;
addBook(Book book)
displayLibraryBooks()


Bank
String bankName
openAccount(Customer customer)
has account
linked to
Customer
String customerName
long accountNumber
double balance
viewBalance()

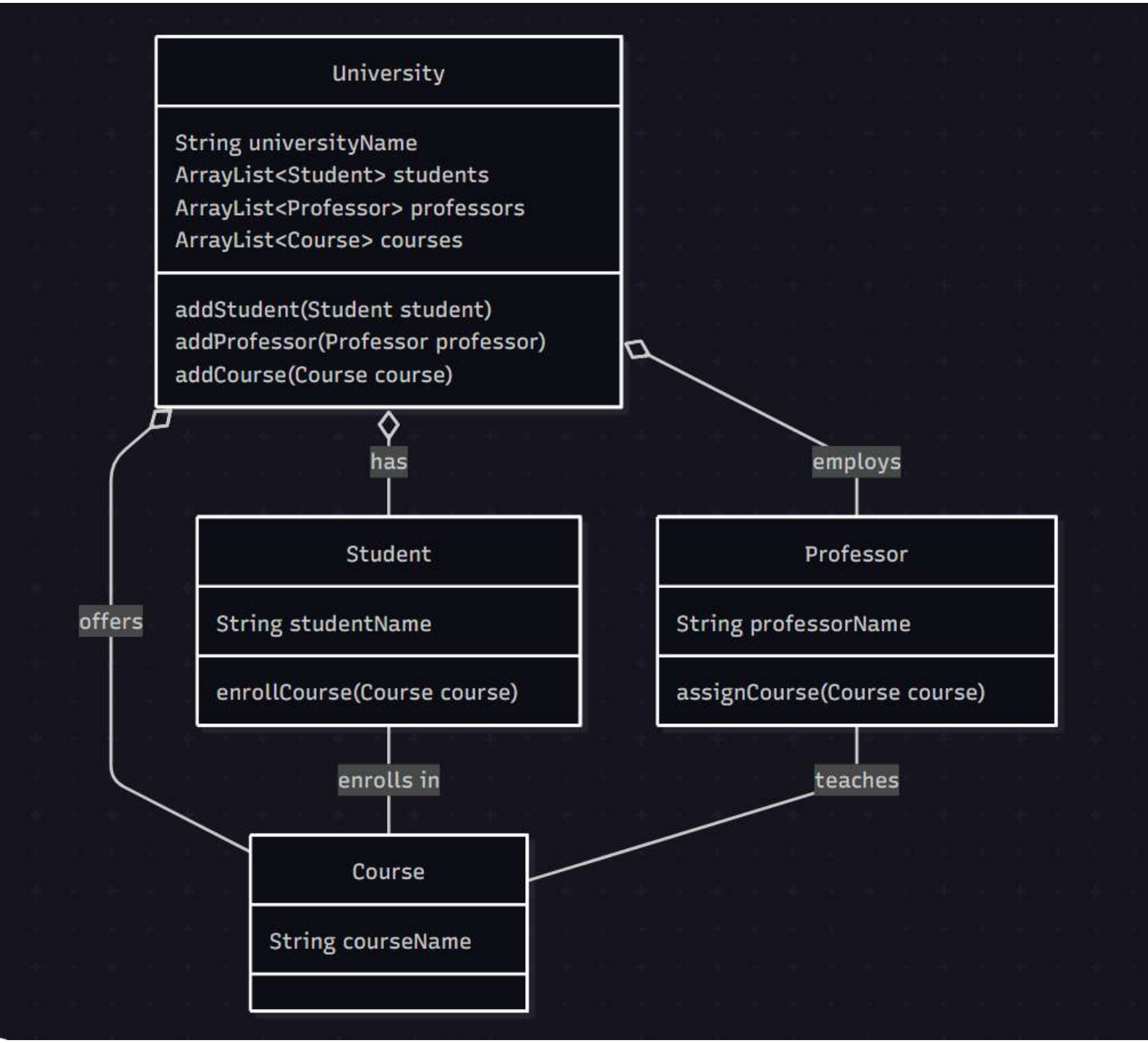

Company
String companyName
ArrayList<Department> departments
addDepartment(Department dept)
consists of
Department
String departmentName
ArrayList<Employee> employees
addEmployee(Employee emp)
contains
Employee
int employeeId
String employeeName
String role


School
String schoolName
ArrayList<Student> students
addStudent(Student student)
has
Student
String studentName
ArrayList<Course> courses
enrollCourse(Course course)
viewCourses()
enrolls in
Course
String courseName
ArrayList<Student> students
addStudent(Student student)
viewStudents()


University
String universityName
ArrayList<Department> departments
ArrayList<Faculty> faculties
addDepartment(Department dept)
addFaculty(Faculty faculty)
consists of
employs
Department
String departmentName
Faculty
String facultyName
String specialization


Hospital
String hospitalName
ArrayList<Doctor> doctors
ArrayList<Patient> patients
addDoctor(Doctor doctor)
addPatient(Patient patient)
has
admits
Doctor
String doctorName
String specialization
consult(Patient patient)
consults
Patient
String patientName
String illness

Customer
String customerName
placeOrder(Order order)
places
Order
String orderId
ArrayList<Product> products
addProduct(Product product)
viewOrderDetails()
contains
Product
String productName
double price


University
String universityName
ArrayList<Student> students
ArrayList<Professor> professors
ArrayList<Course> courses
addStudent(Student student)
addProfessor(Professor professor)
addCourse(Course course)
has
employs
offers
Student
String studentName
enrollCourse(Course course)
Professor
String professorName
assignCourse(Course course)
enrolls in
teaches
Course
String courseName