**Step-by-step approach for the virtual classroom project:**

# Define Classes and Their Responsibilities

* **Instructor**: Responsible for creating and managing units within a class.
* **Class**: Represents a specific course and handles student enrollments.
* **Unit**: Represents a segment or topic within a class, containing lectures.
* **Lecture**: Represents an individual lecture within a unit.
* **Student**: Represents a student who can enroll in classes.

# Create Class Definitions

* **Instructor**:
  + Attributes: name
  + Methods: addUnit(Class classroom, Unit unit)
* **Class**:
  + Attributes: courseName, students (list of enrolled students)
  + Methods: enrollStudent(Student student), displayClassDetails()
* **Unit**:
  + Attributes: unitName, lectures (list of lectures)
  + Methods: addLecture(Lecture lecture)
* **Lecture**:
  + Attributes: lectureTitle
* **Student**:
  + Attributes: name, id

# Implement Class Methods

* **Instructor**:
  + Implement addUnit to add a Unit to a Class.
* **Class**:
  + Implement enrollStudent to add a Student to the class.
  + Implement displayClassDetails to print the class information, including enrolled students and unit details.
* **Unit**:
  + Implement addLecture to add a Lecture to the unit.
* **Lecture**:
  + Simply holds a title, no methods required.

# Create Instances and Demonstrate Functionality

* Create instances of Instructor, Class, Unit, Lecture, and Student.
* Add units to classes using the Instructor.
* Add lectures to units.
* Enroll students in the class.
* Use the displayClassDetails method to show the final output.

# Test the Implementation

* Ensure all methods work as expected.
* Verify that the output matches the desired format and includes all required details.