

Week 4: Backend Assignment

Assessment

WEEK 4 BACKEND ASSIGNMENT

TASK ***SCHOOL MODEL***

You are to model a school using an object-oriented programming (OOP) paradigm. A basic school is made up of the following.

- Principal
- Teachers
- Staff
- Non-Academic Staff
- Students
- Courses
- Classes
- Applicants

Each of these players has various functions/actions which they can perform

- A teacher can teach a course.
- A student can take a course.
- The principal can expel a student.
- A principal can admit applicants based on age.

How will I complete this project?

1. Organize the folders for your module (application)
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3. Make logical assumptions where necessary.

Steps to evaluate.

4. Code

a. At Minimum

i. The right visibility modifiers should be used.

ii. The following concepts/constructs should be used as much as possible

- Encapsulation
 - Inheritance
 - Polymorphism
 - Interfaces/Abstract classes
 - Single Responsibility for classes.
 - Abstraction
 - Aggregation
 - Composition
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