

Project Participants:
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Title:
Student Course Selection

Executive Summary:

This is student course selection for high school. It will 5 table student, portfolio, course, rating and join table student_course. My main goal is to depict one-to-one, one-to-many and many-to-many relationships which was there in the projects. One-to-one was not part of any project but I want to showcase it.

The relationship between student and portfolio will be one-to-one and it my small stretch goal to showcase how to achieve this kind of mapping as its not in example projects. The main criteria was to show many-to-many and one-to-many. The relationship between student and course will many-to-many and there will be a join between them student_course. Also, There be a feature to leave course rating in rating table and relationship between course and ratings will be one-to-many.

Initial Features:

- Create Student (*POST on Student*)
- Retrieve all students (GET on Student)
- Retrieve Students by id along with courses and portfolio (GET on Student by specific id)
- Update on single Student (PUT on student for specified id)
- Delete a Student (DELETE on student for specified id) – Deletes corresponding portfolio but no courses are deleted
- Create Portfolio (POST on Portfolio)
- Create Course (POST on Course)
- Retrieve all Courses (GET on Course)
- Retrieve Courses by id along with reviews (GET on Course by specific id)
- Update a single Course (PUT on course for specific id)
- Delete a Courses (DELETE on Course by specific id) – Deletes corresponding ratings without affecting students
- Create Rating (POST on Rating)

course	
PK	<u>course_id</u>
	course_name
	course_description

student	
PK	<u>student_id</u>
	student_first_name
	student_last_name
	student_grade
	student_email

student_course	
PK,FK1	<u>course_id</u>
PK,FK2	<u>student_id</u>

rating	
PK	<u>rating_id</u>
FK	course_id
	rating_scale
	rating_description

portfolio	
PK	<u>portfolio_id</u>
FK	student_id
	portfolio_name
	portfolio_startdate

