# Data Centric Web Applications

# Lab 8 ExpressJS III MySQL

## Contents

## Setup

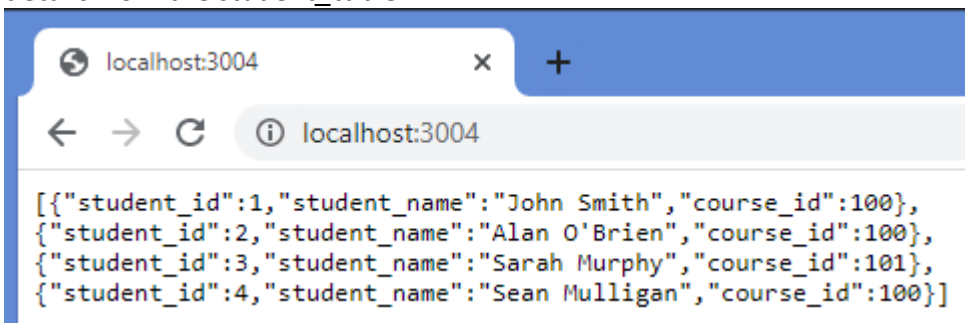
Import *studentDB3.sql* into MySQL from Topic 3 on Moodle.

## Question 1

Write an Express JS application that handles a HTTP GET request on the following route:

- /

When a HTTP GET request is received on the **/** route, the application should send back all details from the *student_table*:

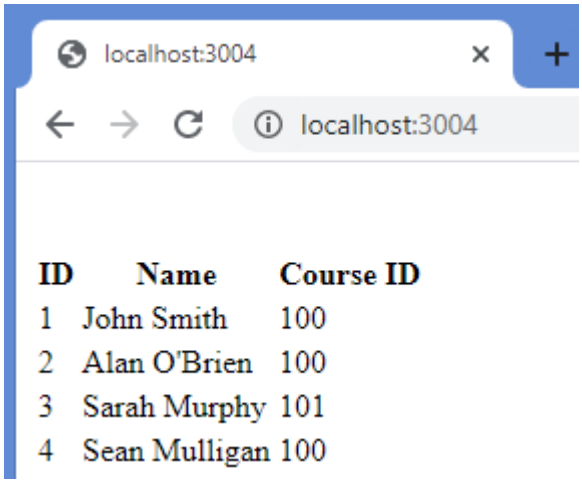


## Question 2

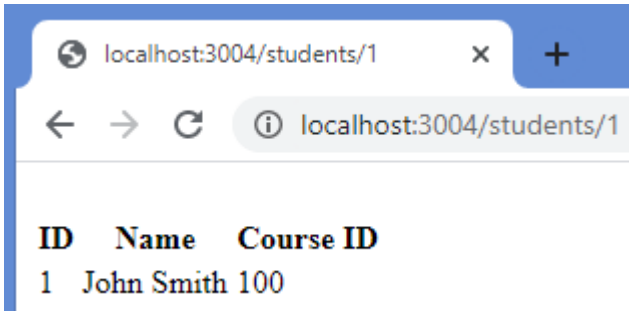
Update question 1 so that all database related code is placed in a separate file and called as needed from *index.js*:

## Question 3

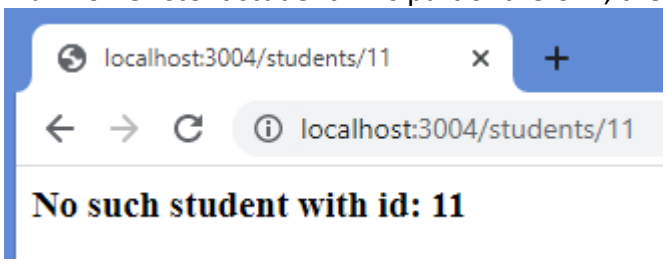
Update question 2 so that when the user navigates to **/** instead of the list of students contained in the *student_table* is now displayed in an EJS view:




Add a new route **/students/:student**, so that when a valid student ID is part of the URL only that student's information is returned:

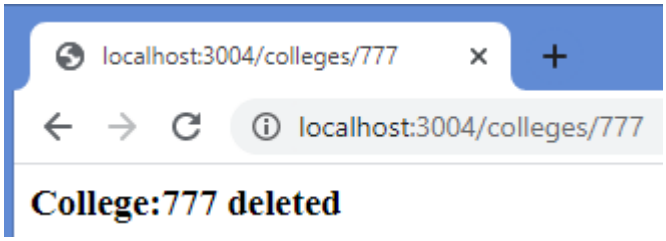



If an non existent student ID is part of the URL, the following should be returned:

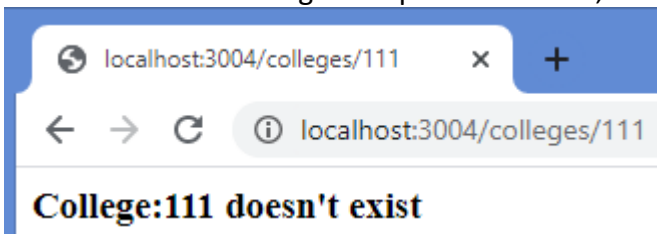


## Question 4

Update question 3 by adding a new route **/colleges/:college**, so that when a valid college ID is part of the URL that college is deleted.
(**NOTE**: This can be done in a GET method. Usually a DELETE is performed only when a HTTP DELETE is sent, however for simplicity we'll use the GET on this route to perform a delete.)




If an non existent college ID is part of the URL, the following should be returned:




As the *college_id* column in the *college_table* is referenced from the *course_table* it may not be possible to delete certain colleges if they are referenced.
In that case an appropriate error message should be returned: