ITMD 462/562/862
Web Application Development

Week 11 – 10/29/2019
Due by 11:59pm CST, Saturday 11/9/2019

In class, I started creating a RESTful API. We planned and starting coding /products and /orders routes. For this homework, I'd like you to create a basic restful API that contains a users.js file under the Project > api > routes directory that will handle all of the routes for a user and a user by ID following the same process as demonstrated in class on 10/29.

For /users we want to be able to GET and POST
For /users/{id} (where {id} is replaced with a user ID) we want to support GET, POST, PATCH, and DELETE.

For each route, please pass back a corresponding status, a JSON message that lets the user know what's happening, and an ID if appropriate. I'd also like you to create the appropriate server.js and app.js files to be able to use these routes.

NOTE: You don't need to think too far outside the box on this one, we've essentially already done the above for products (/products and /products/{id}) in class in the RESTful API - Parts 2 and 3. All you need to do here is create an API that handles users in a similar way. You will need to complete steps in Part 2 and Part 3 as demonstrated in class. Please see the class notes for detailed instructions and file setup examples. You will also need to use nodeJS to install the modules we'd discussed in class.

Please submit your server.js, app.js, and users.js files, along with a screenshot of each method's response from postman (6 in total - GET /users, POST /users, GET /users/{id}, POST /users/{id}, PATCH /users/{id}, and DELETE /users/{id}).

Please submit your .js files and screenshots along with any supporting files through Blackboard for your assignment. 20 Points Total.

**PLEASE NOTE - You have some extra time on this assignment because I'm assigning it late, and I wanted to give you opportunity to ask questions in class next week if needed. YOU WILL NEED to follow the example we did in class for this to work appropriately. Please use your extra time wisely.

Graduate Students (ITMD-562) ONLY:
What would be a real life use case for when we'd want to use a RESTful API? Detail what aspects of the use case would make the RESTful API a good choice. You're encouraged to find actual examples of RESTful API's solving a need, but you can use a hypothetical use case if you'd prefer - just make sure you're talking about how a RESTful API is the better choice for your selected scenario.

Please additionally submit a word or text file for your response.