Lab 03-03 Grade 100/100

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# Issue Tracker - Phase 3

This lab is a continuation of the Issue Tracker project that we started previously. In this assignment we will use what we have learned to implement APIs for **comments** and **test cases.**

# Use your existing GitHub Repository

Use your **awd1111-issue-tracker** repository that you created earlier.

**Do not create a new repository!**

***See exercises on the following pages…***

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# Exercise 1. Comments API (40 pts)

The following requirements where given previously:

1. Anyone can add comments to a bug, regardless of who created it or who it is assigned to. These comments must include the author, date, and time of creation. Bugs can have multiple comments.
2. Comments cannot be edited.

Using these requirements and what you have learned about the APIs we created previously, implement the new API endpoints described below:

**GET /api/bugs/:bugId/comment/list (10pts)**

**GET /api/bugs/:bugId/comment/:commentId (10pts)**

**PUT /api/bugs/:bugId/comment/new (20pts)**

***\*\*Optional\*\**** Implement this API as a route module, located at **/routes/api/comment.js**

* Use **async-await** to implement asynchronous database operations.
* Use **try-catch** to handle database errors and promise rejections.
* Use **joi** to validate the request data.
* Send all data and messages back as **JSON.**
* Use the **200, 400, 404,** and **500** status codes appropriately.

***More exercises on the following pages…***

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# Exercise 2. Test Cases API (60 pts)

The following requirements where given previously:

1. **Quality Analysts** can add **test cases** to bugs and mark them as **passed/failed.** Bugs can have multiple test cases.

Using these requirements and what you have learned about the APIs we created previously, implement the new API endpoints described below:

**GET /api/bug/:bugId/test/list (10pts)**

**GET /api/bug/:bugId/test/:testId (10pts)**

**PUT /api/bug/:bugId/test/new (10pts)**

**PUT /api/bug/:bugId/test/:testId (20pts)**

**DELETE /api/bug/:bugId/test/:testId (10pts)**

***\*\*Optional\*\**** Implement this API as a route module, located at **/routes/api/test.js**

* Use **async-await** to implement asynchronous database operations.
* Use **try-catch** to handle database errors and promise rejections.
* Use **joi** to validate the request data.
* Send all data and messages back as **JSON.**
* Use the **200, 400, 404,** and **500** status codes appropriately.

***Fin.***