

UNIVERSITI TEKNIKAL MALAYSIA MELAKA FAKULTI TEKNOLOGI DAN KEJURUTERAAN ELEKTRONIK DAN KOMPUTER

EXERCISE 3

Code of Subject	BERR 2243	
Name of Subject	DATABASE AND CLOUD SYSTEM	
Title	BUILDING A RIDE-HAILING REST API WITH EXPRESS.JS	
Year	2 Semester: 2	
Course	BERR	
Section	2	
Name of Student:		Matrice No
1.PUTRY BALQIS NABILAH BINTI MOHD JAMIL		B122310468
2. SITI NUR AQILAH BINTI SAZALI		B122310484
3. AZWA NABILA BINTI WANDI SURYA		B122310628
		,
Lecturer /	DD GOO VEW CHAN	
Instructor's Engineer / Tutor	DR. SOO YEW GUAN	
Marks		
Comments		Stamp of submission

Lab Question

Answer by testing your API in Postman and observing responses.

- 1. POST Request:
 - What HTTP status code is returned when a ride is created successfully?

Answer:



• What is the structure of the response body?

Answer:

```
1 {
2 | "id": "67fbe5275c3727f0534b3eb4"
3 }
```

2. GET Request:

O What happens if the rides collection is empty?

Answer:

empty array

• What data type is returned in the response (array/object)?

Answer:

Array

3. Fix PATCH and DELETE Error:

o Catch the error when requesting PATCH or DELETE API, then try to fix the issue reported.

Answer:

Error:

PATCH API	DELETE API
404 Not Found	400 Bad Request

Fixed code:

```
const { ObjectId } = require('mongodb');
// In your PATCH route:
app.patch('/rides/:id', async (req, res) => {
   if (!ObjectId.isValid(req.params.id)) {
         return res.status(400).json({ error: "Invalid
ride ID format" });
    }
    try {
         const result = await
db.collection('rides').updateOne(
             { _id: new ObjectId(req.params.id) },
             { $set: { status: req.body.status } }
         );
         // ... rest of your code
    } catch (err) {
         res.status(400).json({ error: "Invalid ride ID
or data" });
```

• If you try to update a non-existent ride ID, what status code is returned? Answer:

404 Not Found

• What is the value of updated in the response if the update succeeds? Answer:

1

How does the API differentiate between a successful deletion and a failed one?
 Answer:

Deletion	Failed
JSON response body:	JSON response body:
{	{
"deleted": 1	"error": "Ride not
}	found"
	}

4. Users Endpoints:

 Based on the exercise above, create the endpoints to handle the CRUD operations for user's account

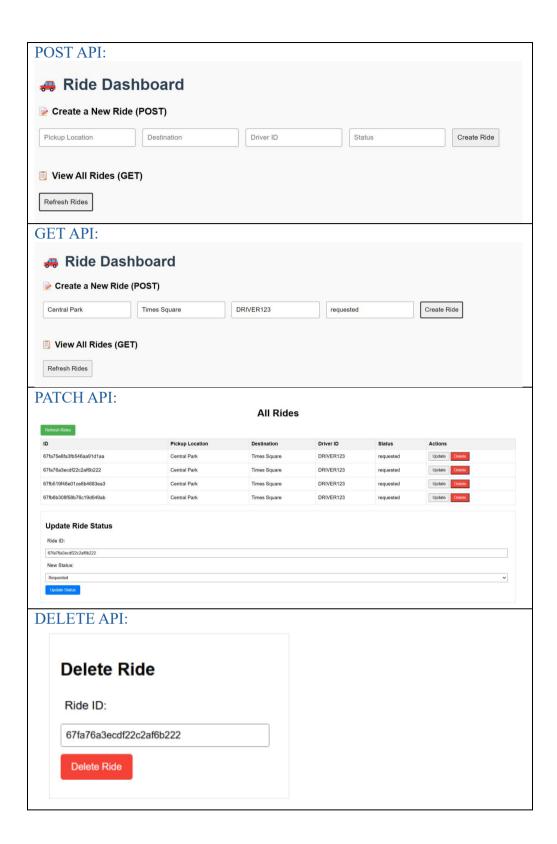
Answer:

- i. Created new route paths starting with /users/
- ii. Changed the database collection name from 'rides' to 'users' in all the new endpoint handlers.
- iii. Adjusted the request and response structures to handle user-specific data (like username, email, password) instead of ride details.

5. FrontEnd:

 Upload the Postman JSON to any AI tools, and generate a simple HTML and JS Dashboard for you

Answer:



Submission Requirements

- 1. GitHub Repository with:
 - Complete code. https://github.com/PutryNabilah/berr2243-2
- 2. Postman Collection:

o Export and include the collection file.



3. Exercise Report:

O Screenshots of Postman requests/responses.

