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Q1. What you thought about when you were designing the code ?

When I was trying to design the code, I was thinking about:

1. Writing the code in such a way so that testing would become easy for me.
2. Handle errors gracefully and return standard error codes
3. How to get input from the user
4. Accepting and responding with JSON
5. How to do filtering and sorting
6. Nesting resources for hierarchical objects

Q2. What did *you* think was important to do to make it easy to test the program

1. I created a test plan according to the application requirements
2. Then developed manual test case scenarios from the end-users perspective
3. Finally performed functional tests and validate if everything works according to requirements
4. Lastly Automate the test scenarios using scripts

3. What are some of the challenges that you faced when testing this assignment.

The challenges that I had to face while writing the code

- Increasing Response Times.
- Endpoint Consistency.
- I had to filter out unneeded data or large volumes of data.

The challenges I had to face while doing testing

- Tight Deadlines.
- Wrong Testing Estimation.

The challenges I had to face while doing continuous CI

- Performance Issues.
- Flawed Automated Testing.

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- Scaling Up The Testing Infrastructure.
- Complex Debugging Reports.