Technical Evaluation Exercise

Here is a small code sample for a CRUD user service:

Goals

The above code is very concise, but it comes with a fair share of issues.

Set up a sample PHP project and rewrite the above service with the following goals:

Make it testable.

- Fix any security issues.
- Make it as type-safe as possible.
- Make it extensible.
- Allow to run it without an actual database connection.
- Use correct HTTP response status codes (200, 201, 400, 404, 500).
- Add unified error handling so a user never gets to see a system error message.

Non-Goals

These things are NOT goals of this exercise:

- URI parsing to find controller methods. A basic proof-of-concept is enough.
- Writing any HTML or structured output. Your implementation should return the same output as the sample code.

Constraints

Solve this exercise assuming this environment:

- PHP 8.0 or above.
- Composer for dependency management.
- PHPUnit or any other testing framework of your choice.
- No third-party web framework (using third-party libraries for individual tasks is fine, please elaborate on why you decided to use them if you do).