**Quality Assurance and Test Coverage**

**Difficulty:** Level 200

**Business** **Goal:**

Now that the prototype web-application is working, the fractional CTO wants to provide assurance to key stakeholders that the application is working as expected.

You have been tasked to do two things:

* Use an AI coding assistant or LLMs to audit and improve, refactor your codebase.
* Implement Unit Tests and try to aim for at least 70% coverage

Please write up a summary of your findings for the fractional CTO to review.

**Technical Considerations**

Use AI coding assistants or specialized AI code coverage tools:

* Qodo coverage  — open-source tools can be used to rapidly write Unit Tests
* Windsurf
* Cursor
* Amazon Developer Q
* Github Copilot