Corti QA Engineering Test: Solution

Approach: The solution showcases testing of the /pet API endpoints for

POST /pet
POST /pet{petId}/uploadImage
DELETE /pet/{petId}

TODO: add more

Test automation framework used: Playwright, https://playwright.dev/

General techniques used:

- **Testing valid, non-valid, and unsupported ID values and file types**

- **Test parameterisation:**
  - **Running the same test multiple times with different inputs**

- **Testing flows:**
  - **Implemented a happy path flow: create pet, upload image to pet, update pet info/data, delete pet**
  - **Things to look for: data propagation between tests, running tests in order.**
  - **Implementation-wise, I user the *describe* interface from Playwright using *test.step***

Bonus:
- **CI/CD**
  - **The current implementation is able to be set & run via a CI/CD tool, eg. TeamCity. I foresee the following steps in the setup:**
    1. **Framework setup/installation: npm install**
    2. **Running test: npx playwright test**
    3. **We can have a bunch of other optional steps depending of the setup:**
       1. **We might want to setup/reset a DB before running tests**
       2. **We might need to spin up an environment**
       3. **Etc.**
  - **Other configurations:**
    - **Automated triggers after a successful deployment to a test environment**
    - **Parameters for the test job: test environment name, etc.**

- **Test repeatability**
  - **As the good practices of test automation suggest, the tests should be re-runnable, independent from each other, focused**
  - **In order to have re-runnable tests it is important to have a mechanism that handles the test data.**
  - **Example of such mechanisms:**
    - **Database reset to a known starting state (with pre-populated data in it)**
    - **On-the-fly test data creation before each test or test suite.**

- **Reporting:**
  - **Playwright default HTML reporter**
  - **Slack or MS Teams per team channel notifications**
  - **In CI/CD, eg. TeamCity, the report can be saved in the Artifacts**
  - **3rd-party reporters for Playwright, eg. Monocart, Tesults, ReportPortal, etc.**