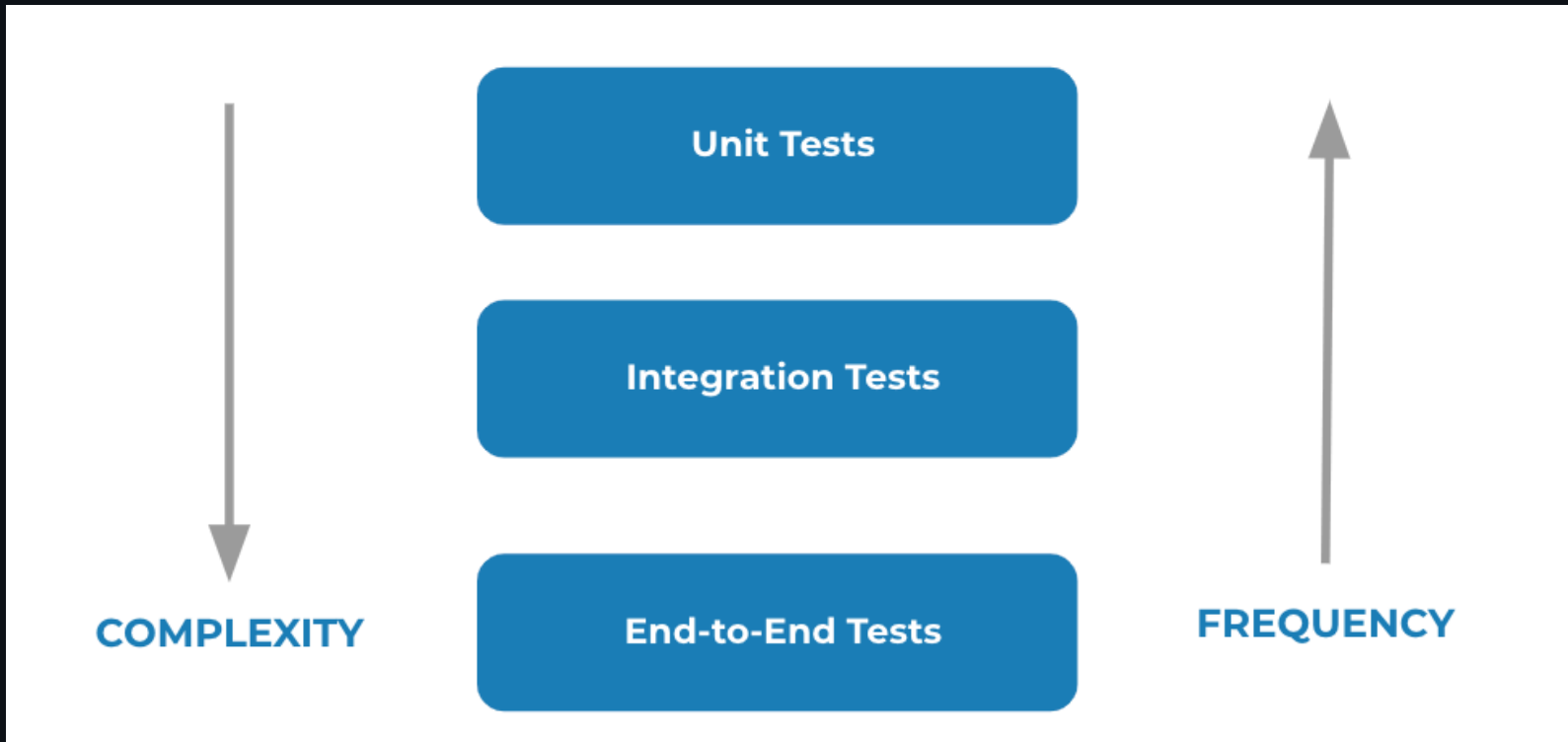# Fullstack Development

Preflight project - automated testing

Testing types

Testing types

- Unit test
  - Tests individual code components.
- Interation test
  - Checks code dependency.
- End-to-end test
  - Assesses an application's functionality and user experience.

Testing frameworks

- State of JS 2023

Setting up

- `npm init -y`
- `npm install cypress typescript dotenv`

Files

- `./tsconfig.json` (Link)
- `./.env` from `.env.example` (Link)
- `./.gitignore` (Link)
- Modify `./package.json` (Link)

Run your first test

- `npm run test`

Cypress Browser

- Click `E2E Testing` ➡️ `Continue` ➡️ `Start E2E Testing in Chrome`
- Click `Create New Spec` ➡️ Name your spec (`min.cy.ts`) ➡️ Run spec

Minimal example

- `./cypress/e2e/min.cy.ts` (Link)

Full example

- Enable reading `.env`
  - `./cypress.config.ts` (Link)
- Spec files
  - `./cypress/e2e/backend.cy.ts` (Link)
  - `./cypress/e2e/frontend.cy.ts` (Link)