

The Vision

Our Example Applications

For the purpose of explaining how to hook up a test framework to target applications for functional and end-to-end tests, let's pretend that we have:

- ✦ A website front end that provides a commerce interface for selecting products, adding them to a shopping cart, and purchasing them.
- ✦ To keep things simple, our products are t-shirts, in a limited range of colors and sizes.
- ✦ Our website will allow customers to generate a slogan to be printed on the t-shirts.
- ✦ The customization is controlled via an API.
- ✦ Shipping is controlled through an API.

The Vision

- ✦ Functional tests are *atomic*, scoped to specific areas of functionality. You need a bunch of these atomic tests to adequately examine the functionality of web sites and APIs.
- ✦ End-to-end tests look at paths through areas of functionality. E2E tests play connect-the-dots with the atomic functional tests.
- ✦ E2E tests are best when written on a layer of abstraction above the atomic functional tests: combine reasonable sequences of atomic functional test interactions into abstractions that model business processes or “chunks” of flow.
- ✦ Combine application wrappers and abstraction models to make E2E tests easier to define and conceptualize.