Playbook Methods Repository

# **Front-End Implementation**

Implement the user-facing interface and experience of an application based on UX/UI designs.

### Remote Agility: **•** High

### Linked Tactic(s): Agile Development, Prototyping, UX Design, Visual Design

## Why we do it:

Front-End Implementation takes Thoughtworks’ strong product thinking into reality, it is the method by which user interface and user experience designs are turned into a product with which the user interacts.

Typical examples of a front-end include websites (or web applications like single-page apps), mobile applications, and desktop applications.

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## When to apply it:

* When product design calls for a user-facing component

## Best Practices & Considerations:

* Accessibility Implementation
  + While many jurisdictions place requirements around accessibility, it also further diversifies the appeal and utility of an application, and forces a more deep and thorough understanding of how users may interact with an application.
* Test-Driven Development
  + Facilitates automated testing and deployment (see CI/CD)
  + Improves reliability of software
  + Encourages well architected software increasing agility by making software easier to understand, change, and extend
* Pair Programming
  + Facilitates Continuous Integration by eliminating the need for branching and code review
  + Improves reliability
  + Facilitates knowledge sharing and cross-team collaboration

## Responsible roles:

* Software Engineer: these individuals create the tests (see [Test-Driven Development](https://docs.google.com/document/d/1OT82TR7HbvPPfTkn-Ds37QaULahPy5xhk459lylmOPk/edit)) and software that takes designs and user stories into a functional user-facing application
* QA Automation Engineer: these individuals apply the [Test Automation](https://docs.google.com/document/d/1HKQP85Qj1gfh9CEhI4To063Hw1pDQlSReSMALOU4Q7A/edit#) method to the front-end software

## Tools:

* Online tools/platforms/services
  + xx
* Websites
  + xx
* Databases
  + xx
* Other
  + xx

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## Thoughtworks Examples - Linked

* Client working docs, airtable, miro/mural boards
  + xx
* Client polished presentations/deliverables
  + xx
* Internal assets - clinic materials / guild docs
  + xx

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## Learn more: How we do this?

* Templates (docs, decks, sheets, miro, etc.)
  + xx
* How-To Resources (external or internal)
  + xx
* Outside References (articles, books, etc.)
  + xx
* Sub-set Activities
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