

React Front-end Implementation Plan

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About this document

[Placeholder]

Reference documents

- <https://patternlab.io/>

- <https://github.docusignhq.com/WWW/gibson/wiki>
- <http://cssinjs.org/benefits>
- <https://emotion.sh>
- <https://storybook.js.org/>

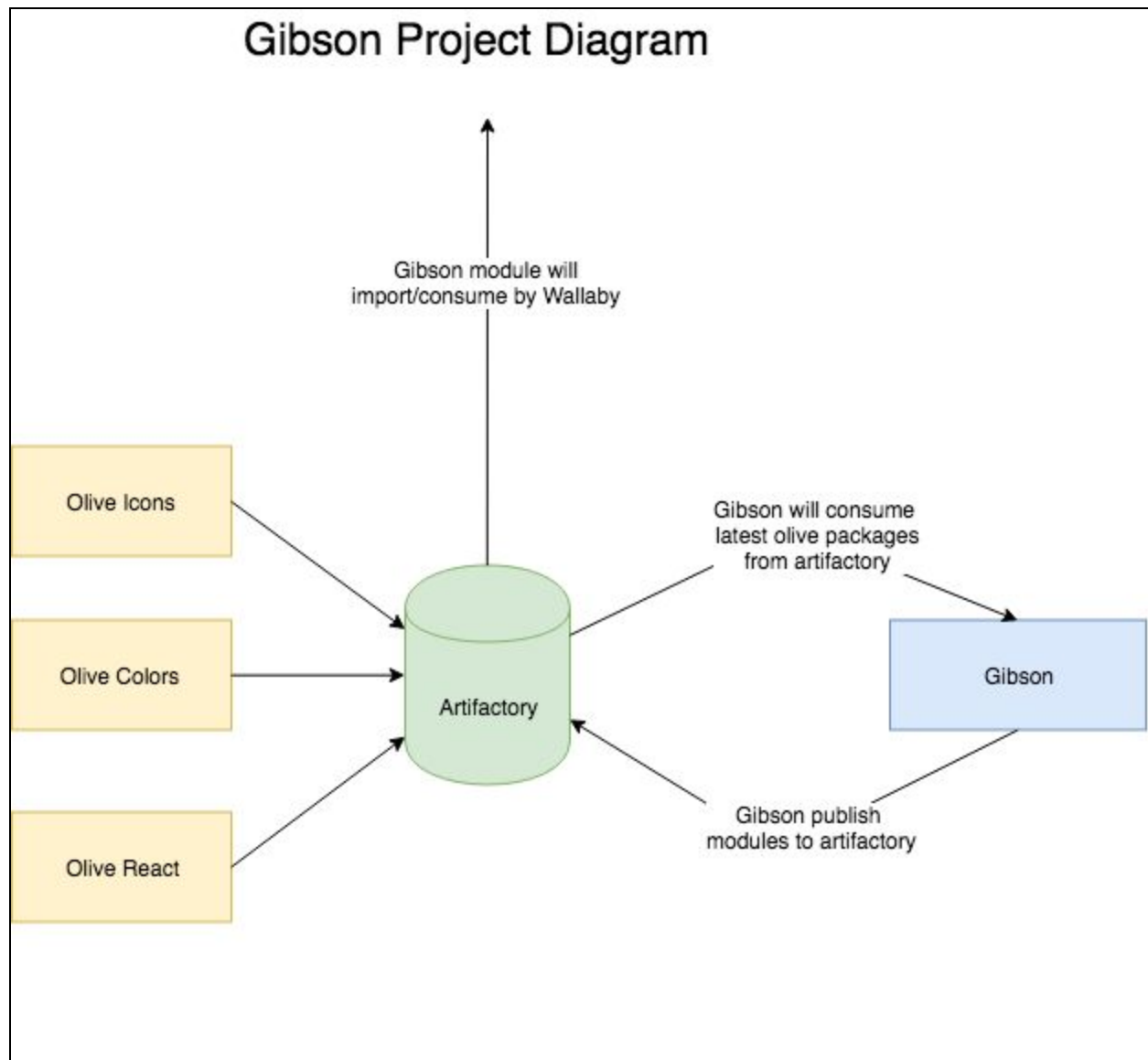
Implementation plan

Storybook

Storybook is a way to play with our front-end Gibson components, without the Drupal backend.

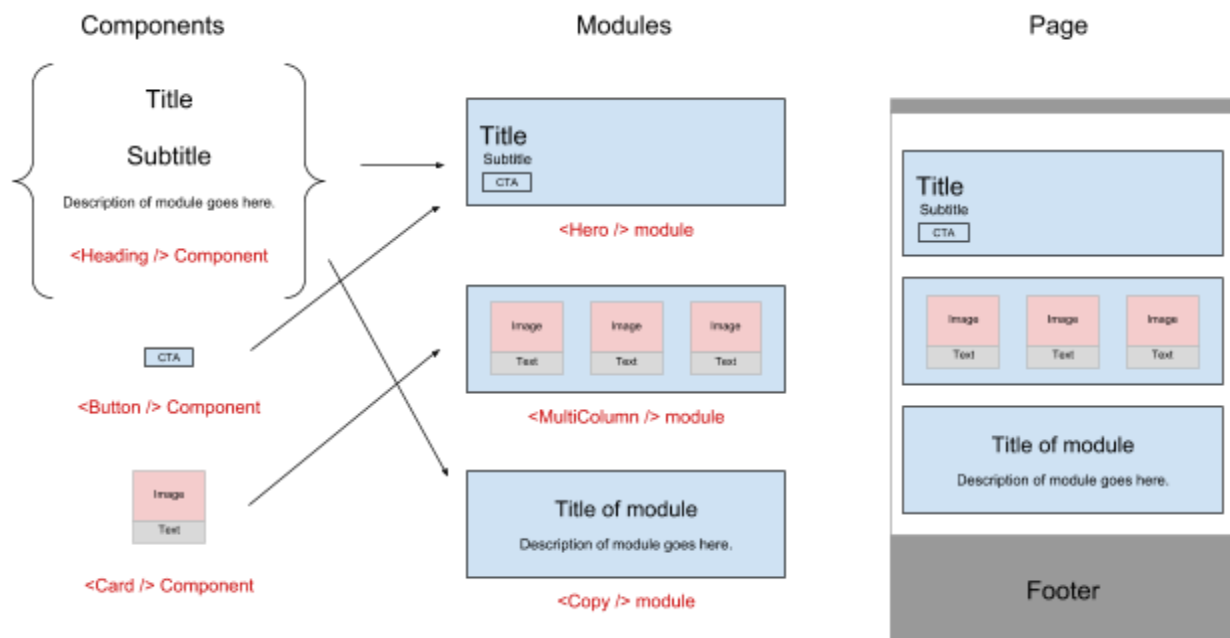
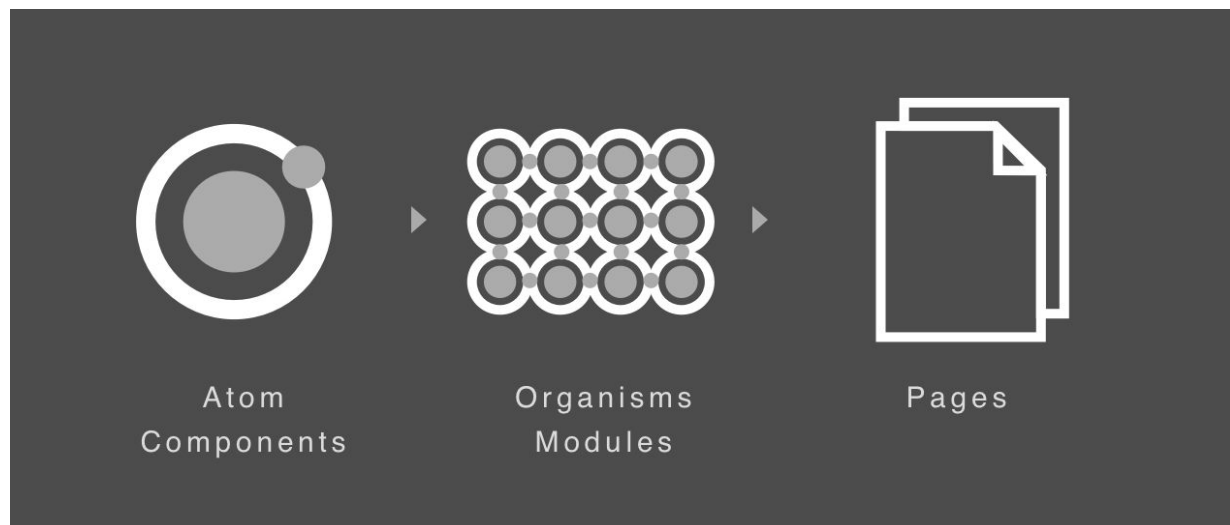
Front-End (Gibson)

Gibson is React modular library for DocuSign web properties. Gibson will publish using npm on Artifactory and will be consumed by other project using es6 imports.



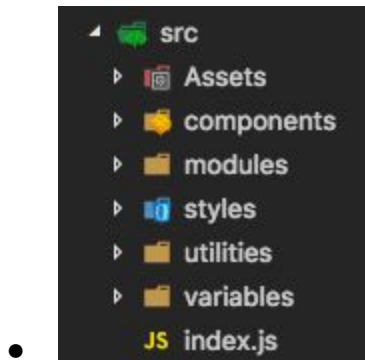
React-Components structure

- Review components and modules requirement documentation at <https://github.docusignhq.com/WWW/gibson/wiki>
- It will use atom(components) → Organisms(Modules) → Pages(Web Pages) analogy to build web pages.
- Gibson react project will build reusable modules using components.



Directory structure

- Gibson src will have components/modules/assets directory structure.



Components

- Components are basic atoms which will be use to build Gibson modules.
- For Example: Heading, Button, Section, Card, and, more
- DO NOT PUBLISH THIS COMPONENTS while you build Gibson.

Assets

- This directory will hold Images, Fonts, Icons, Videos to build modules locally for storybook.
- DO NOT PUBLISH THIS ASSETS while you build Gibson.

Modules

- Modules are reusable react component.
- Gibson will publish modules to npm artifactory
- For Example: Hero, Multicolumn, Copy

Pages

- “Emmet” compiler will use Gibson modules to build web pages.

Styling method

- Use CSS in JS, JSS styling method for Gibson css styling.
- Why JSS ?
 - JSS is a more powerful abstraction over CSS.
 - It uses JavaScript as a language to describe styles in a declarative and maintainable way.
 - It is a high performance JS to CSS compiler which works at runtime and server-side.
 - This core library is low level and framework agnostic.

- [More...](#)
- Using <https://emotion.sh> as CSS-in-JS library.
- Olive, Martini also use emotion js as solution

Component Previewer Site

- Storybook : <https://storybook.js.org/>
- Publish Storybook on Git-Pages
- You can review published Gibson site at :
<https://github.docusignhq.com/pages/WWW/gibson/>

API integration

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State management

[Placeholder-State Tree diagram? Redux information?]

Routing

Code splitting

[Placeholder]

Server side rendering

[Placeholder]

Quality assurance

Here are QA observations on existing automation test scripts.

- Any url change or navigation change automation test scripts should be updated.
- As long as the existing unique ids for the text fields/web elements are not altered, automation test scripts should be working good.

- When any new text field is added or any existing text field is removed, its required to update the same in the test scripts.
- There are few fields/elements which do not have unique ids for which I have used Xpath based on the location of the element, these elements will require an update if there is any change in the dom.

At this moment I do not see any more scenarios that will require to modify existing automation scripts when we use React for Front-end development.

Open questions

Is Gatsby better than rolling a custom front-end?

Gatsby would overlap what is provided with the internal olive/react front end.

Olive and our variant, Gibson, would conform more strictly to DocuSign standards for both design, code, and accessibility.

Is create-react-app sufficient or do we need to maintain our own webpack config?

- Create our own static site compiler "Emmet" or use Gatsby as static site generator.

Future phases

- ECOM, DevCenter, Blog will use Gibson modules for unique web experience for customer.