

Storybook

What are we going to cover

What is Storybook

Why use it

Developing stories

Extending Storybook

What is Storybook?

Storybook is a **UI development environment** for your UI components

- Visualize different states of your UI components
- Develop them interactively

Runs **separate from your application** while developing

- Only concerned with the UI components

Why use Storybook

Develop components in a **more isolated** fashion

- Develop a single or a small tree of components without the complete application

Makes it easier to **test different states** of your component

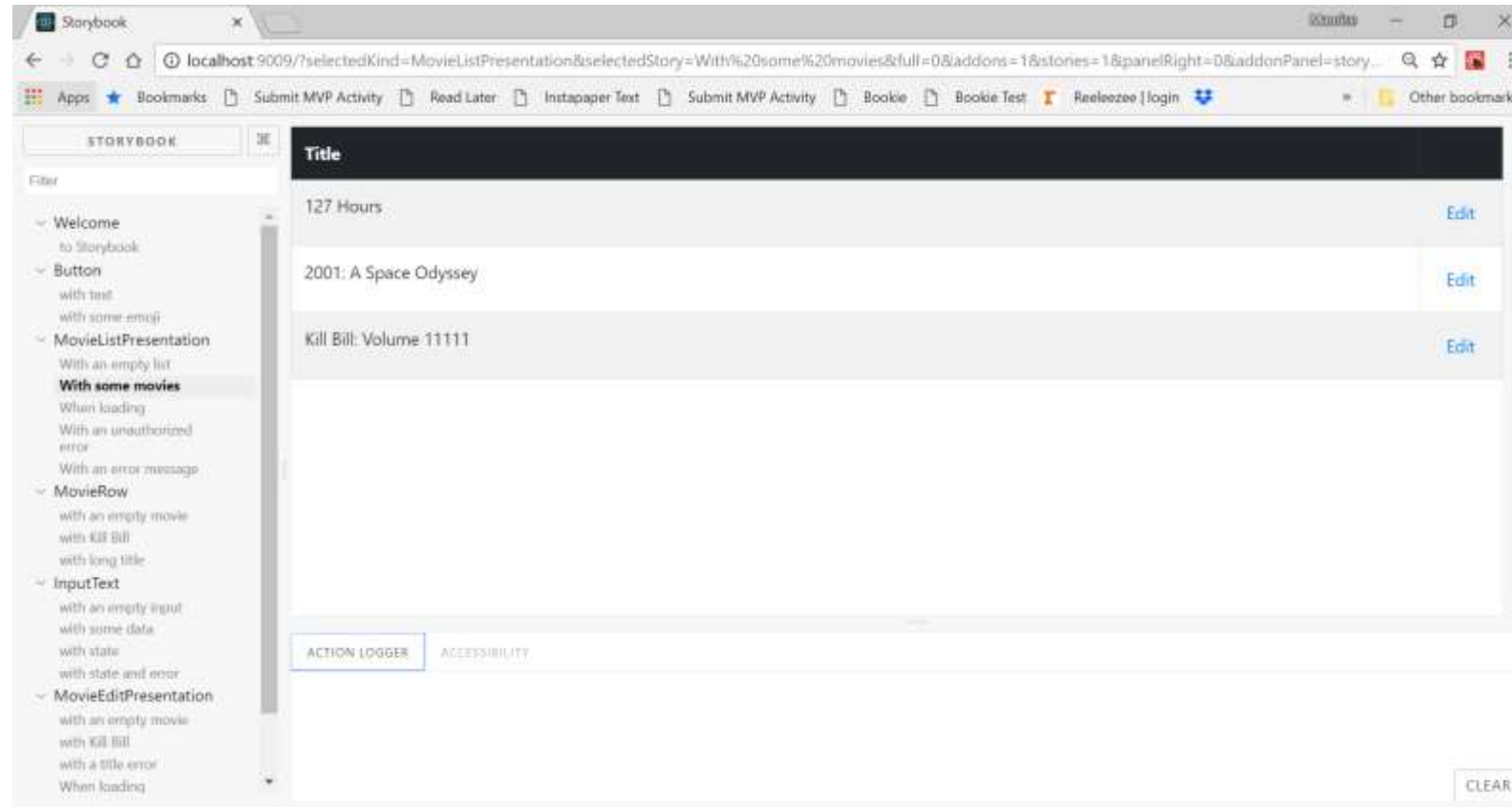
- Specially error or loading states can be hard to see well in a running application

Create an interactive component **style guide**

Many **addons** to help with many features

- Accessibility
- Notes
- Viewport sizing
- etc

Running Storybook



Developing stories

Usually best to start with small leaf components

- These are usually easy to test with few different states

Work your way up to bigger presentational components

- Don't test components doing AJAX calls etc

Vary the input props to render all relevant states:

- Empty/ non empty collections
- AJAX loading/error states
- Valid/invalid input

Basic stories

```
storiesOf('Button', module)
  .add('with text', () => (
    <Button onClick={action('clicked')}>
      Hello Button
    </Button>
  ))
  .add('with some emoji', () => (
    <Button onClick={action('clicked')}>
      <span role="img" aria-label="so cool">
        😄 😎 👍 💯
      </span>
    </Button>
  ));
```

Decorators

Decorators can be used to **wrap components** around each story

- Often things your component depends upon

Can also be **cross cutting concerns**

- Both visual and non visual
- Dynamic state management
- Addons
- Etc

Multiple decorators can be used

- They wrap each other to the other can be important

Decorating a story

```
storiesOf('InputText', module)
  .addDecorator(story =>
    <StateDecorator>{story()}</StateDecorator>)
  .add('with state', ({
    value, prop, onChange
  }) => (
    <InputText
      value={value}
      prop={prop}
      onChange={onChange}>
      Label:
    </InputText>
  ));
```

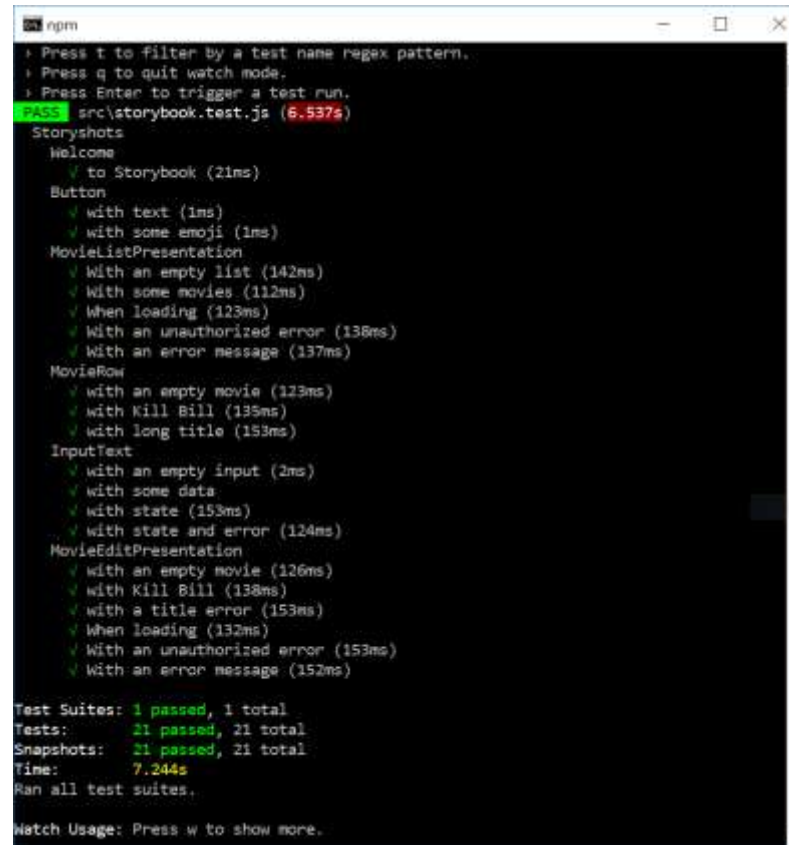
Snapshot testing

StoryShots adds automatic Jest Snapshot Testing for Storybook

- Add the `@storybook/addon-storyshots` and `react-test-renderer` NPM packages

Calling `initStoryshots()` will automatically create and verify a snapshot for each story

Running snapshot tests using Jest



```
npm
> Press t to filter by a test name regex pattern.
> Press q to quit watch mode.
> Press Enter to trigger a test run.
PASS src\storybook.test.js (6.537s)
Storyshots
  Welcome
    ✓ to Storybook (21ms)
  Button
    ✓ with text (1ms)
    ✓ with some emoji (1ms)
  MovieListPresentation
    ✓ With an empty list (142ms)
    ✓ With some movies (112ms)
    ✓ When loading (123ms)
    ✓ With an unauthorized error (138ms)
    ✓ With an error message (137ms)
  MovieRow
    ✓ with an empty movie (123ms)
    ✓ with Kill Bill (135ms)
    ✓ with long title (153ms)
  InputText
    ✓ with an empty input (2ms)
    ✓ with some data
    ✓ with state (153ms)
    ✓ with state and error (124ms)
  MovieEditPresentation
    ✓ with an empty movie (126ms)
    ✓ with Kill Bill (138ms)
    ✓ with a title error (153ms)
    ✓ When loading (132ms)
    ✓ With an unauthorized error (153ms)
    ✓ With an error message (152ms)

Test Suites: 1 passed, 1 total
Tests:       21 passed, 21 total
Snapshots:  21 passed, 21 total
Time:        7.244s
Ran all test suites.

Watch Usage: Press w to show more.
```

Use all stories as
snapshot tests

```
import initStoryshots  
  from '@storybook/addon-storyshots';  
  
initStoryshots();
```

Extending Storybook

There are many Storybook **addons** to provide additional functionality

Some are from the core team, others from the community

- Actions
- Links
- State
- Knobs
- Storyshots
- Material UI
- etc

Addons are **registered** in [./storybook/addons.js](#)

Conclusion

Storybook is a great way to help develop components

Use Storybook to do Component Driven Development

Many addons provide a lot of flexibility and power