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Bug running Jest with ScrollView dependant components

#13034

[New issue](#)[Closed](#)

alvaromb opened this issue on Mar 20, 2017 · 8 comments



alvaromb commented on Mar 20, 2017

Contributor



Description

When running `npm run test`, the default tests `index.ios.js` and `index.android.js` fail due to the following error:

```
TypeError: _this._scrollView.scrollTo is not a function

    at TabViewPagerScroll._this._scrollTo (node_modules/react-native-tab-view/src/TabView
    at TabViewPagerScroll.componentDidMount (node_modules/react-native-tab-view/src/TabV
    at node_modules/react-test-renderer/lib/ReactCompositeComponent.js:265:25
    at measureLifecyclePerf (node_modules/react-test-renderer/lib/ReactCompositeComponer
    at node_modules/react-test-renderer/lib/ReactCompositeComponent.js:264:11
    at CallbackQueue.notifyAll (node_modules/react-test-renderer/lib/CallbackQueue.js:76
```

Assignees

No one assigned

Labels

[Good first issue](#)[Help Wanted](#)[JavaScript](#)[Resolution: Locked](#)

Projects

None yet

Milestone

```
at ReactTestReconcileTransaction.close (node_modules/react-test-renderer/lib/ReactTe
at ReactTestReconcileTransaction.closeAll (node_modules/react-test-renderer/lib/Tran
at ReactTestReconcileTransaction.perform (node_modules/react-test-renderer/lib/Trans
at batchedMountComponentIntoNode (node_modules/react-test-renderer/lib/ReactTestMour
```

Reproduction

```
$ react-native init Test
$ cd Test/
$ yarn add react-navigation
$ npm run test
```

Solution


I'm open to send a PR with a fix if somebody can guide me through this. Could be here

https://github.com/facebook/react-native/blob/db555ba78d7b0f79e482c62787db2fc3d897848/Libraries/Components/ScrollView/__mocks__/_/ScrollViewMock.js?

Additional Information

- React Native version: 0.42.0
- Platform: both
- Operating System: macOS Sierra
- Dev tools: iOS 10.2



 **alvaromb** mentioned this issue on Mar 20, 2017

Fix checking of scrollTo() satya164/react-native-tab-view#163

 Closed

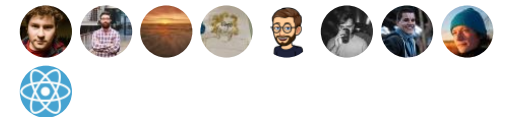
No milestone

Linked pull requests

Successfully merging a pull request may close this issue.

None yet

9 participants





shergin added the

JavaScript

label on Mar 20, 2017



janicduplessis commented on Mar 20, 2017 • edited ▾

Collaborator



Yea looks like the issue is that the ScrollView mock doesn't have any of the methods ScrollView has. Maybe we could use `jest.genMockFromModule` to create a mock of the original component class and then extend it to override the render method. This will make sure we create mock functions for every method of ScrollView.

```
const ScrollViewComponent = jest.genMockFromModule('ScrollView');

class ScrollViewMock extends ScrollViewComponent {
  render() {
    ...
  }
}
```

Not sure if that would work but if it does it would be nice to avoid having to fix the mock if we add other methods to ScrollView. If it doesn't work we could also just add empty methods for each one in ScrollView.



janicduplessis commented on Mar 20, 2017

Collaborator



PR would be nice, let me know if you need any help.




janicduplessis added

Good first issue

Help Wanted



labels on Mar 20, 2017

 **alvaromb** added a commit to APSL/react-native that referenced this issue on Mar 21, 2017

 closes [facebook#13034](#) Fixes the ScrollViewMock methods

eed39c9

 **alvaromb** mentioned this issue on Mar 21, 2017

closes #13034 Fixes the ScrollViewMock methods #13048

 Closed



alvaromb commented on Mar 21, 2017

Contributor

Author

...

Hi @janicduplessis!

Thanks for your support, here's the PR [#13048](#)

Your suggested change worked perfectly, however when testing this specific case with the `react-navigation` library, the `Linking` library mock also fails. There's a workaround for that, so I was able to confirm the new `ScrollViewMock` is working. I don't know if the `Linking` mock issue belongs to this repo or the library, but if you feel it can be solved inside RN I can open a new issue/PR.

There's also a flow warning for using `jest` in the mock, please feel free to ping me if I need to perform further changes for that.

 **alvaromb** added a commit to APSL/react-native that referenced this issue on Mar 21, 2017

 closes [facebook#13034](#) Fixes the ScrollViewMock methods ...

fdf7f47

  **AlanFoster** mentioned this issue on Apr 3, 2017

Jest fails with "SyntaxError: Unexpected reserved word" everytime react-



jurassix commented on Apr 6, 2017



I ran into this issue and was able to mock this simply:

```
jest.mock('ScrollView', () => jest.genMockFromModule('ScrollView'));
```

Also, I'm mocking the `Linking` module as well from [here](#) that [@alvaromb](#) provided:

```
jest.mock('Linking', () => ({
  addEventListener: jest.fn(),
  removeEventListener: jest.fn(),
  openURL: jest.genMockFn().mockReturnValue(Promise.resolve()),
  canOpenURL: jest.genMockFn().mockReturnValue(Promise.resolve()),
  getInitialURL: jest.genMockFn().mockReturnValue(Promise.resolve()),
}))
```

Note, I've configured this to be run as part of `Jests setupFiles` configuration.



8



2



1



erikfox commented on Jul 11, 2017



@janicduplessis Was this completed/should be closed? Is `Linking` mock mentioned above still an issue?



renatobenks-zz commented on Aug 24, 2017



This PR it's on development? I'm with the same issue so, if I can help it, would be nicely.



minhhai2209 commented on Oct 11, 2017



This solution

```
jest.mock('ScrollView', () => jest.genMockFromModule('ScrollView'));
```

works well but it also removes ScrollView content from snapshots, which reduces the test coverage.

Here is what I'm using:

```
jest.mock('ScrollView', () => {  
  const RealComponent = require.requireActual('ScrollView');  
  const React = require('React');  
  class ScrollView extends React.Component {  
    scrollTo() {  
    }  
  
    render() {  
      return React.createElement('ScrollView', this.props, this.props.children);  
    }  
  }  
  ScrollView.propTypes = RealComponent.propTypes;  
  return ScrollView;  
});
```



2



sam-vdp commented on Nov 8, 2017

Contributor



@minhhai2209 Great solution! One small improvement, your code broke all my existing snapshot tests, because the ScrollView mock shipped with react-native renders slightly differently. This worked for me:

```
jest.mock('ScrollView', () => {
  const MockScrollView = require.requireMock('ScrollViewMock');
  const React = require('React');
  const RealScrollView = require.requireActual('ScrollView');
  class ScrollView extends React.Component {
    scrollTo() {
    }

    render() {
      return (
        <MockScrollView {...this.props} />
      );
    }
  }
  ScrollView.propTypes = RealScrollView.propTypes;
  return ScrollView;
});
```



4



1



facebook-github-bot closed this in [0c8a3e4](#) on Nov 28, 2017












bowerman0 added a commit to bowerman0/react-native that referenced this issue on Dec 5, 2017



closes [facebook#13034](#) Fixes the ScrollViewMock methods



261e40a

-  **bowerman0** added a commit to bowerman0/react-native that referenced this issue on Dec 5, 2017
-  closes [facebook#13034](#) Fixes the ScrollViewMock methods  5253e6a
-   **Edgpaez** mentioned this issue on Dec 28, 2017
- TypeError when using ScrollViewMock in RN 0.52.0-rc.0 #17378** Closed
-   **facebook** locked as **resolved** and limited conversation to collaborators on Nov 28, 2018
-   **react-native-bot** added the Resolution: Locked label on Nov 28, 2018

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