

PROJECTS APP – overview

Code base for the project can be downloaded from: <https://github.com/badiuanaalexandra/sievo>

The project is also deployed and available online at <https://amazing-hawking-9a929c.netlify.com/>

The UI is responsive and it works on all modern browsers and mobile devices (tested on Chrome, Firefox, Edge and Android Chrome).

The project was built starting with “create-react-app”, afterwards “eject” command was executed to make everything local.

Libraries and tools:

- react
- redux – for handling state
- redux-saga – redux middleware for handling actions
- css3 with media queries – normally I would use scss, but this was a small project, so I decided to leave it out and just handle everything with normal css
- jest and enzyme for unit testing

I am aware that probably it would have been easier and faster to use a library like “ReactTable”, however it wouldn’t give me the freedom to create the responsive UI that I wanted, so I chose a custom implementation. I also felt it would be better this way from an “assignment” point of view.

The app consists mainly of the “src” folder, that has actions, assets, components, helpers, reducers and sagas and the “__tests__” folder on the same level as the src folder, which replicates the src structure for writing the tests.

I have made some assumptions when creating the app based on the projects data and requirements

- fields that should be of type date have “date” included in the json field name
- dates and numbers will be displayed in Finnish format

Features:

- sorting by project field
- searching based on the description field, search is case insensitive, the table updates while typing
- reset clears the search field and resets the sorting order – it doesn’t re-fetch the projects
- to re-fetch the projects from the api, the page should be refreshed
- dates and numbers are displayed in Finnish format
- if values are too long to fit the cell they will be cut
- the UI updates on resizing the window or changing from portrait to landscape mode on tablets and mobiles

To start the project on local environment, open the Node command prompt, go to the app folder and run:
npm start

To execute the tests run: **npx jest** for running all the tests, **npm test** to “watch” the tests

The style.js file is auto-generated by the react-native module based on the style.css for each component and it is not in use at the moment.

```
Node.js command prompt
Time: 9.214s
Ran all test suites.

C:\Sievo\sievo-git>npx jest
npx: installed 1 in 1.924s
Path must be a string. Received undefined
C:\Sievo\sievo-git\node_modules\jest\bin\jest.js
PASS _tests_/actions/uiActions.test.js
PASS _tests_/reducers/rootReducer.test.js
PASS _tests_/reducers/displayProjectsReducer.test.js
PASS _tests_/sagas/projectsFilterSagas.test.js
PASS _tests_/components/filter/index.test.js
PASS _tests_/components/table/index.test.js
PASS _tests_/components/app/index.test.js
PASS _tests_/sagas/uiSagas.test.js
PASS _tests_/sagas/projectsResetSagas.test.js
PASS _tests_/actions/projectsApiActions.test.js
PASS _tests_/sagas/projectsSortSagas.test.js
PASS _tests_/actions/projectsSortActions.test.js
PASS _tests_/sagas/projectsApiSagas.test.js
PASS _tests_/actions/projectsResetActions.test.js
PASS _tests_/actions/projectsFilterActions.test.js
PASS _tests_/reducers/projectsReducer.test.js
PASS _tests_/helpers/projectsFilter.test.js
PASS _tests_/reducers/uiReducer.test.js
PASS _tests_/helpers/ui.test.js
PASS _tests_/helpers/projectsSort.test.js

Test Suites: 20 passed, 20 total
Tests: 51 passed, 51 total
Snapshots: 3 passed, 3 total
Time: 6.978s
Ran all test suites.
```

There are currently 20 tests suites that contain 51 tests, which cover almost the whole application.

Few screenshots:

Desktop:

Projects

RESET

Enter description

PROJECT	DESCRIPTION	START DATE	CATEGORY	RESPONSIBLE	SAVINGS AM...	CURRENCY	COMPLEXITY
2	Substitute Crém...	28.12.2013	Office supplies	Clark Kent	3 722,417		Moderate
1	Decrease produc...	14.6.2013	Dairy	Daisy Milks	5 583,625	USD	Hazardous
2	Stop using Krypt...	9.4.2014	Office supplies	Clark Kent	7 444,834	EUR	Simple
1	Black and white L...	7.3.2014	Dairy	Daisy Milks	9 306,042		Moderate
2	Harmonize Lacto...	5.2.2014	Office supplies	Clark Kent	1 861,208	USD	Hazardous
1	Substitute Crém...	4.2.2015	Dairy	Daisy Milks	3 722,417	EUR	Simple
2	Decrease produc...	4.1.2015	Office supplies	Clark Kent	5 583,625		Moderate
1	Stop using Krypt...	3.1.2015	Dairy	Daisy Milks	7 444,834	USD	Hazardous
2	Black and white L...	3.1.2016	Office supplies	Clark Kent	9 306,042	EUR	Simple
1	Harmonize Lacto...	2.1.2016	Dairy	Daisy Milks	1 861,208		Moderate
2	Substitute Crém...	2.1.2016	Office supplies	Clark Kent	3 722,417	USD	Hazardous

Big Tablet:

Projects

RESET

Enter description

PROJECT	DESCRIPTION	START DATE	CATEGORY	RESPONSIBLE	SAVINGS AM...	CURRENCY	COMPLEXITY
2	Substitute Crém...	28.12.2013	Office supplies	Clark Kent	3 722,417		Moderate
1	Decrease produc...	14.6.2013	Dairy	Daisy Milks	5 583,625	USD	Hazardous
2	Stop using Krypt...	9.4.2014	Office supplies	Clark Kent	7 444,834	EUR	Simple
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1	Harmonize Lacto...	2.1.2016	Dairy	Daisy Milks	1 861,208		Moderate
2	Substitute Crém...	2.1.2016	Office supplies	Clark Kent	3 722,417	USD	Hazardous

Small tablet:

Projects

SORT

↑↓

RESET

PROJECT	2
DESCRIPTION	Substitute Crème fraîche with evaporated milk in ice-cream products
START DATE	28.12.2013
CATEGORY	Office supplies
RESPONSIBLE	Clark Kent
SAVINGS AMOUNT	3 722,417
CURRENCY	
COMPLEXITY	Moderate

PROJECT	1
DESCRIPTION	Decrease production related non-categorized side costs
START DATE	14.6.2013
CATEGORY	Dairy

Mobile:

Projects

SORT

↑↓

RESET

PROJECT	2
DESCRIPTION	Substitute Crème fraîche with evap...
START DATE	28.12.2013
CATEGORY	Office supplies
RESPONSIBLE	Clark Kent
SAVINGS AMO...	3 722,417
CURRENCY	
COMPLEXITY	Moderate