Shared modules

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Андрей Гладков

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- Удаленная работа или офис

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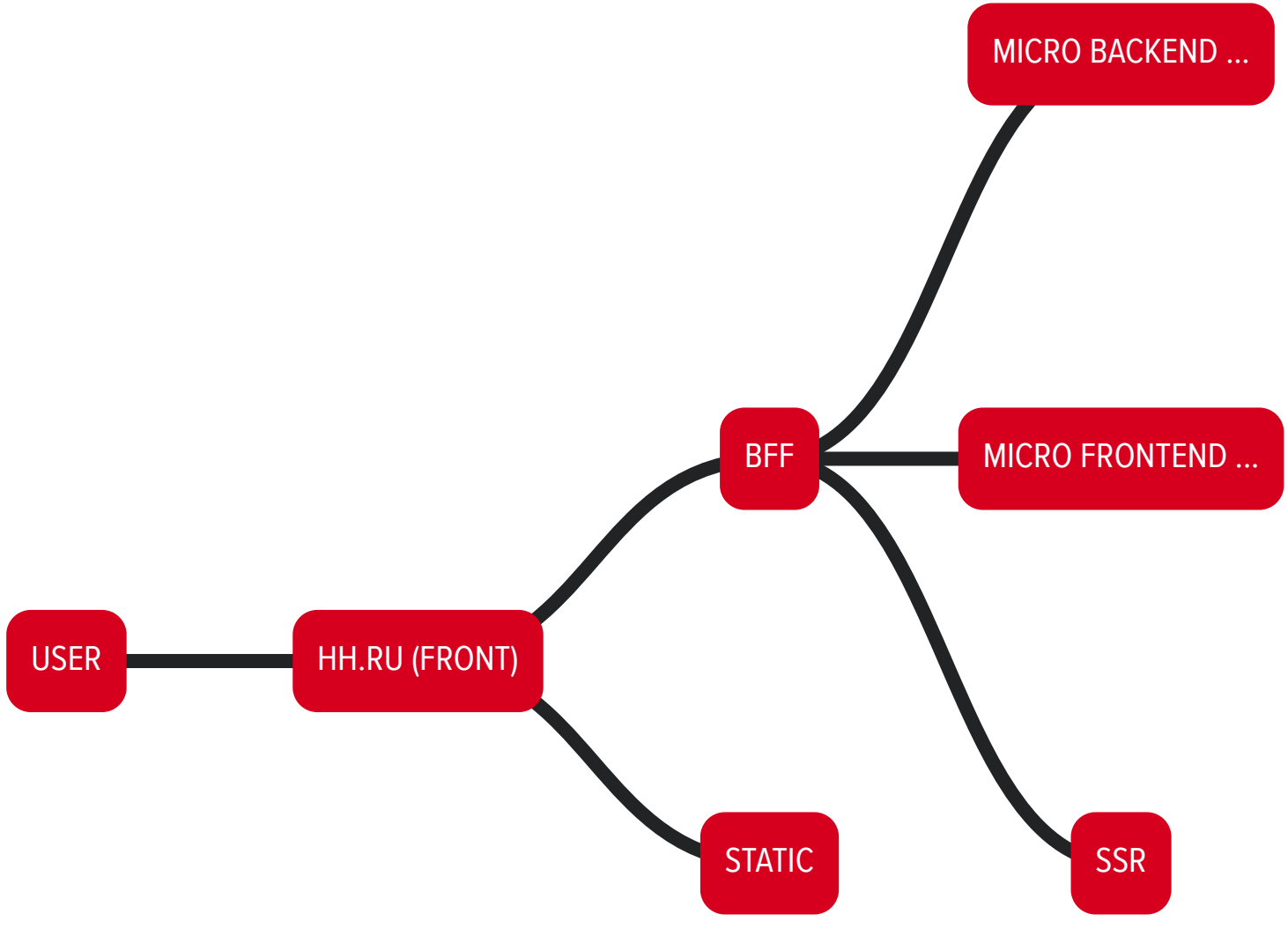
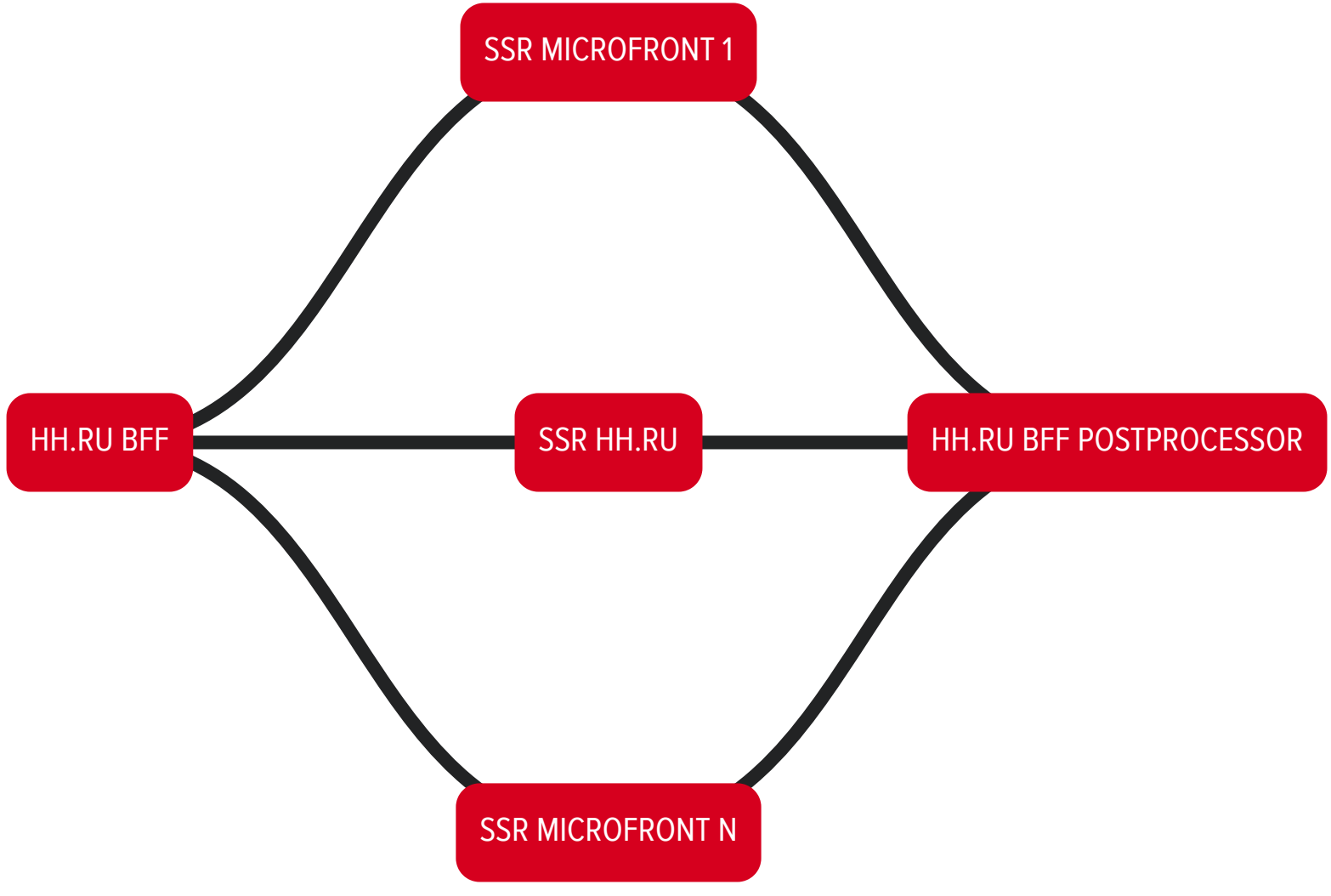
- Кроме бизнес-проектов, есть «технический налог» 30%
- Работает 230 человек
- Разделен на 45 фича команд


MICRO BACKEND ...
BFF
MICRO FRONTEND ...
USER
HH.RU (FRONT)
STATIC
SSR


SSR MICROFRONT 1
HH.RU BFF
SSR HH.RU
HH.RU BFF POSTPROCESSOR
SSR MICROFRONT N

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- имеет свою webpack сборку
- независимо релизится
- может быть встроен в hh.ru, а может иметь отдельный домен, может и то и другое

Проблемы

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- дублирование вендоров

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- дублирование ui-kit

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- дублирование ui-kit
- n виджетов одного сервиса на странице

▲ Reduce unused JavaScript — 1.89 s

URL	Transfer Size	Potential Savings
…release/full-88ae85a….js (yastatic.net)	675.9 KiB	466.9 KiB
chrome-extension://fmkadmapgofadopljbjfkapdkoienihi/build/react_devtools_backend.js	514.8 KiB	303.0 KiB
/webpackBuild/vendors.f80a9f8….js (i.hh.ru)	231.8 KiB	161.8 KiB
/static/vendors.d0c4b1b….js?place=skills-view (skills-survey-front.hh.ru)	368.8 KiB	161.3 KiB
/static/vendors.ced8cd2….js?place=employerReviewsBig (employer-reviews-front.hh.ru)	153.4 KiB	152.5 KiB
/static/vendors.ced8cd2….js?place=employerReviewsWizard (employer-reviews-front.hh.ru)	153.4 KiB	152.5 KiB
/vendors.96d076f….js (chatik.hh.ru)	152.8 KiB	147.0 KiB
…620535/b06e7ab….js (yastatic.net)	108.7 KiB	107.7 KiB
/static/main.9c9b739….js?place=employerReviewsBig (employer-reviews-front.hh.ru)	96.4 KiB	96.2 KiB
/static/main.9c9b739….js?place=employerReviewsWizard (employer-reviews-front.hh.ru)	96.4 KiB	96.2 KiB
/static/vendors.ced8cd2….js?place=employerReviewsSmall (employer-reviews-front.hh.ru)	153.4 KiB	79.2 KiB
/webpackBuild/bloko.ea42eca….js (i.hh.ru)	94.7 KiB	68.9 KiB
/static/main.9c9b739….js?place=employerReviewsSmall (employer-reviews-front.hh.ru)	96.4 KiB	60.8 KiB
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/webpackBuild/App.35b24df….js (i.hh.ru)	77.8 KiB	38.4 KiB
/webpackBuild/vendors.lux.9558d83….js (i.hh.ru)	75.0 KiB	30.5 KiB
/metrika/watch.js (mc.yandex.ru)	55.7 KiB	29.7 KiB
/gtag/js?id=G-44H5WGZ123&l=dataLayer&cx=c (www.googletagmanager.com)	71.0 KiB	28.3 KiB
/webpackBuild/38115.60de2b8….js (i.hh.ru)	48.1 KiB	28.2 KiB
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/static/vendors.ced8cd2….js?place=employerReviewsBig (employer-reviews-front.hh.ru)	153.4 KiB	15[illegible] KiB
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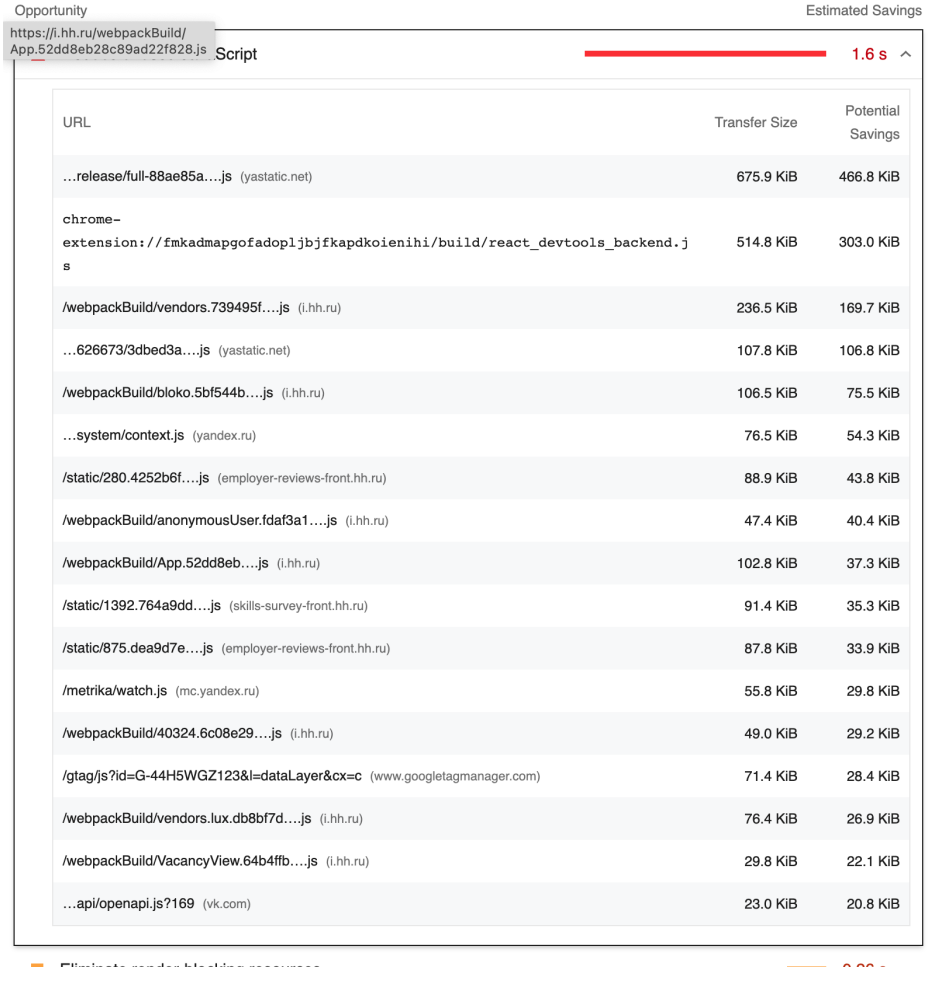
900 KiB



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/static/280.4252b6f….js (employer-reviews-front.hh.ru)	88.9 KiB	43.8 KiB
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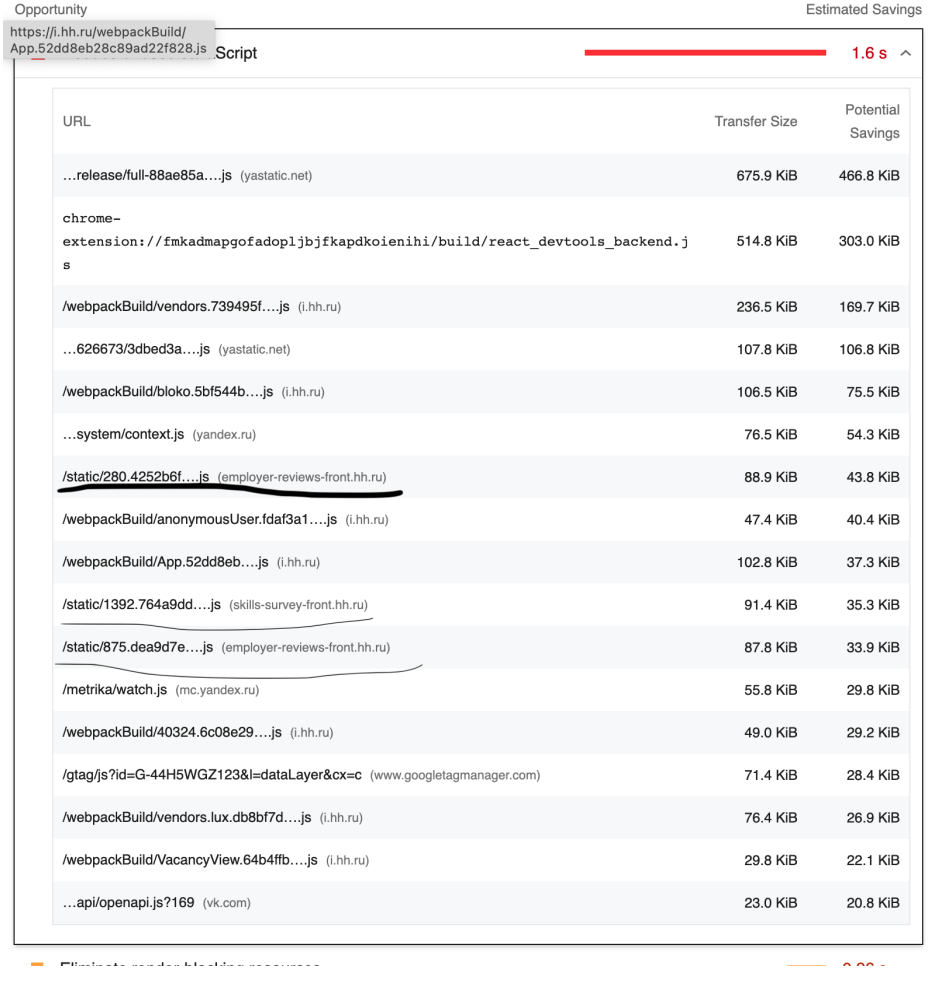
…api/openapi.js?169 (vk.com)	23.0 KiB	20.8 KiB


Opportunity
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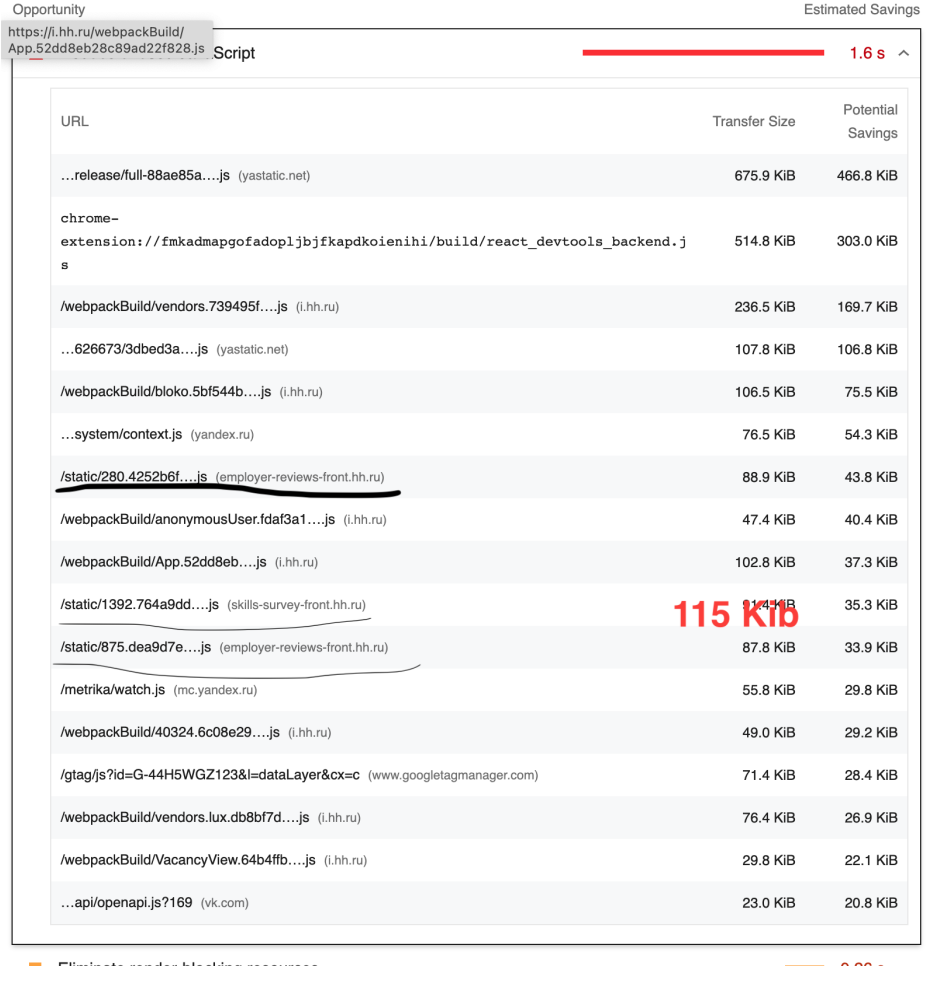
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/webpackBuild/vendors.739495f….js (i.hh.ru) 236.5 KiB 169.7 KiB
…626673/3dbed3a….js (yastatic.net) 107.8 KiB 106.8 KiB
/webpackBuild/bloko.5bf544b….js (i.hh.ru) 106.5 KiB 75.5 KiB
…system/context.js (yandex.ru) 76.5 KiB 54.3 KiB
/static/280.4252b6f….js (employer-reviews-front.hh.ru) 88.9 KiB 43.8 KiB
/webpackBuild/anonymousUser.fdaf3a1….js (i.hh.ru) 47.4 KiB 40.4 KiB
/webpackBuild/App.52dd8eb….js (i.hh.ru) 102.8 KiB 37.3 KiB
/static/1392.764a9dd….js (skills-survey-front.hh.ru) 115 Kib 35.3 KiB
/static/875.dea9d7e….js (employer-reviews-front.hh.ru) 87.8 KiB 33.9 KiB
/metrika/watch.js (mc.yandex.ru) 55.8 KiB 29.8 KiB
/webpackBuild/40324.6c08e29….js (i.hh.ru) 49.0 KiB 29.2 KiB
/gtag/js?id=G-44H5WGZ123&l=dataLayer&cx=c (www.googletagmanager.com) 71.4 KiB 28.4 KiB
/webpackBuild/vendors.lux.db8bf7d….js (i.hh.ru) 76.4 KiB 26.9 KiB
/webpackBuild/VacancyView.64b4ffb….js (i.hh.ru) 29.8 KiB 22.1 KiB
…api/openapi.js?169 (vk.com) 23.0 KiB 20.8 KiB

Как решали проблемы

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- hh.ru - контейнер, пусть и шарит vendors

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- шарить ui-kit

Как решали проблемы

- hh.ru - контейнер, пусть и шарит vendors
- шарить ui-kit
- фронт-сервисы берут модуль из контейнера по semver

Module Federation Plugin

Позволяет webpack сборке предоставлять или использовать модули других независимых сборок в РАНТАЙМЕ

webpack(provide)

```
plugins: [
    new ModuleFederationPlugin({
      name: 'provide_app',
      shared: [
        'react',
        'react-dom',
        'redux': {
            version: '4.2.0',
        }
      ],
      remotes: {
        'consume_app': 'consume_app@url_to_remote_entry',
      },
    }),
```

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      },
    }),
]
```

webpack(consume)

```
plugins: [
    new ModuleFederationPlugin({
        name: 'consume_app',
        filename: 'remoteEntry.[chunkhash].js',
        exposes: {
            './App': './src/App',
        },
        shared: {
            react: { singleton: true },
            'react-dom': { singleton: true },
            redux: {
                requiredVersion: '^4.2.0',
                version: '4.2.0',
                strictVersion: true,
            }
```

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```
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12                  requiredVersion: '^4.2.0',
13                  version: '4.2.0',
14                  strictVersion: true,
15              },
16          },
17      }),
18  ]
```

Provide App

```
1  import React from 'react';
2
3  const ConsumeApp = React.lazy(
4      () => import('consume_app/App')
5  );
6
7  const App = () => (
8      <div>
9          <h1>Basic Host-Remote</h1>
10         <h2>Provide app</h2>
11         <React.Suspense fallback="Loading ConsumeApp">
12             <ConsumeApp />
13         </React.Suspense>
14     </div>
15 );
```

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export default App;
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12              <ConsumeApp />
13          </React.Suspense>
14      </div>
15  );
16
17  export default App;
```

ConsumeApp

```
1  import Button from './Button';
2  import React from 'react';
3
4  const App = () => (
5      <div>
6          <h2>Consume App</h2>
7          <Button />
8      </div>
9  );
10
11 export default App;
```

Demo

Shared hints

Shared hints

- version(false | string)

Shared hints

- version(false | string)
- requiredVersion(false | string)

Shared hints

- version(false | string)
- requiredVersion(false | string)
- strictVersion(boolean)

Shared hints

- version(false | string)
- requiredVersion(false | string)
- strictVersion(boolean)
- import(false | string)

Shared hints

- version(false | string)
- requiredVersion(false | string)
- strictVersion(boolean)
- import(false | string)
- singleton(boolean)

Shared hints

- version(false | string)
- requiredVersion(false | string)
- strictVersion(boolean)
- import(false | string)
- singleton(boolean)
- eager(boolean)

Особенности при шаринге модулей

```
1 let rootModuleDefinitionData = {};
2
3 const setMyAwesomeData = (data) =>
4     rootModuleDefinitionData = data;
5 const getMyAwesomeData = (data) => rootModuleDefinitionData;
6
7 export { setMyAwesomeData, getMyAwesomeData };
```

Особенности при шаринге модулей

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```

Особенности при шаринге модулей

```
import defaultExport from 'my-npm-package';
import someModule from 'my-npm-package/some-module';

//ModuleFederationPlugin
shared: {
    'my-npm-package': {
        version: '1.0.1',
    },
    'my-npm-package/some-module': {
        requiredVersion: `^1.0.1`,
        version: '1.0.1',
    },
},
```

Особенности при шаринге модулей

```
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import someModule from 'my-npm-package/some-module';

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Особенности при шаринге модулей

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6 //my-npm-package/some-module
7 import foo from 'ui-kit-from-peer-deps/foo';
```

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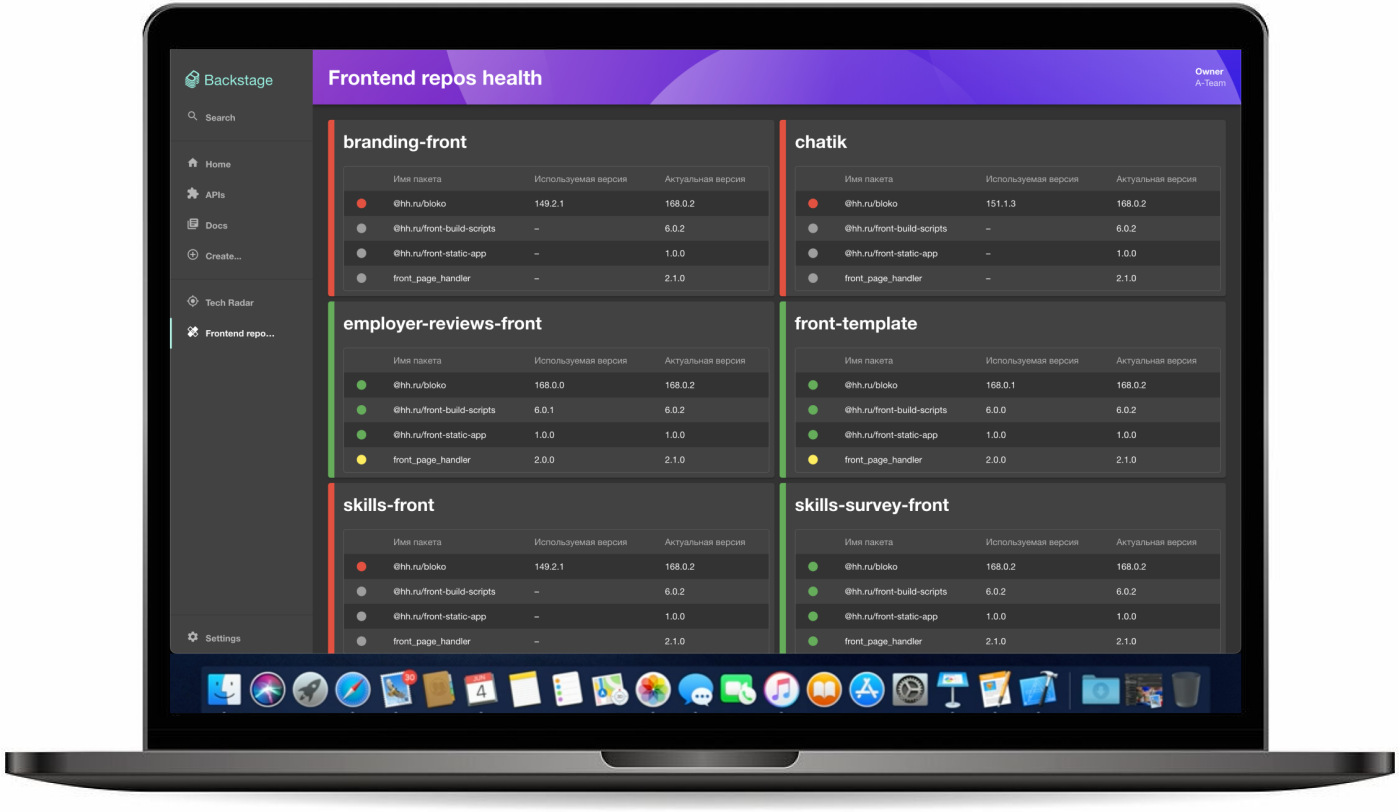
Успех

Нет


Backstage
Search
Home
APIs
Docs
Create...
Tech Radar
Frontend repo...
Settings
Frontend repos health
Owner
A-Team
branding-front
Имя пакета
Используемая версия
Актуальная версия
@hh.ru/bloko
149.2.1
168.0.2
@hh.ru/front-build-scripts
–
6.0.2
@hh.ru/front-static-app
–
1.0.0
front_page_handler
–
2.1.0
chatik
@hh.ru/bloko
151.1.3
168.0.2
@hh.ru/front-build-scripts
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6.0.2
@hh.ru/front-static-app
–
1.0.0
front_page_handler
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employer-reviews-front
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6.0.1
6.0.2
@hh.ru/front-static-app
1.0.0
1.0.0
front_page_handler
2.0.0
2.1.0
front-template
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168.0.2
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front_page_handler
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skills-front
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149.2.1
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6.0.2
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front_page_handler
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2.1.0
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168.0.2
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6.0.2
6.0.2
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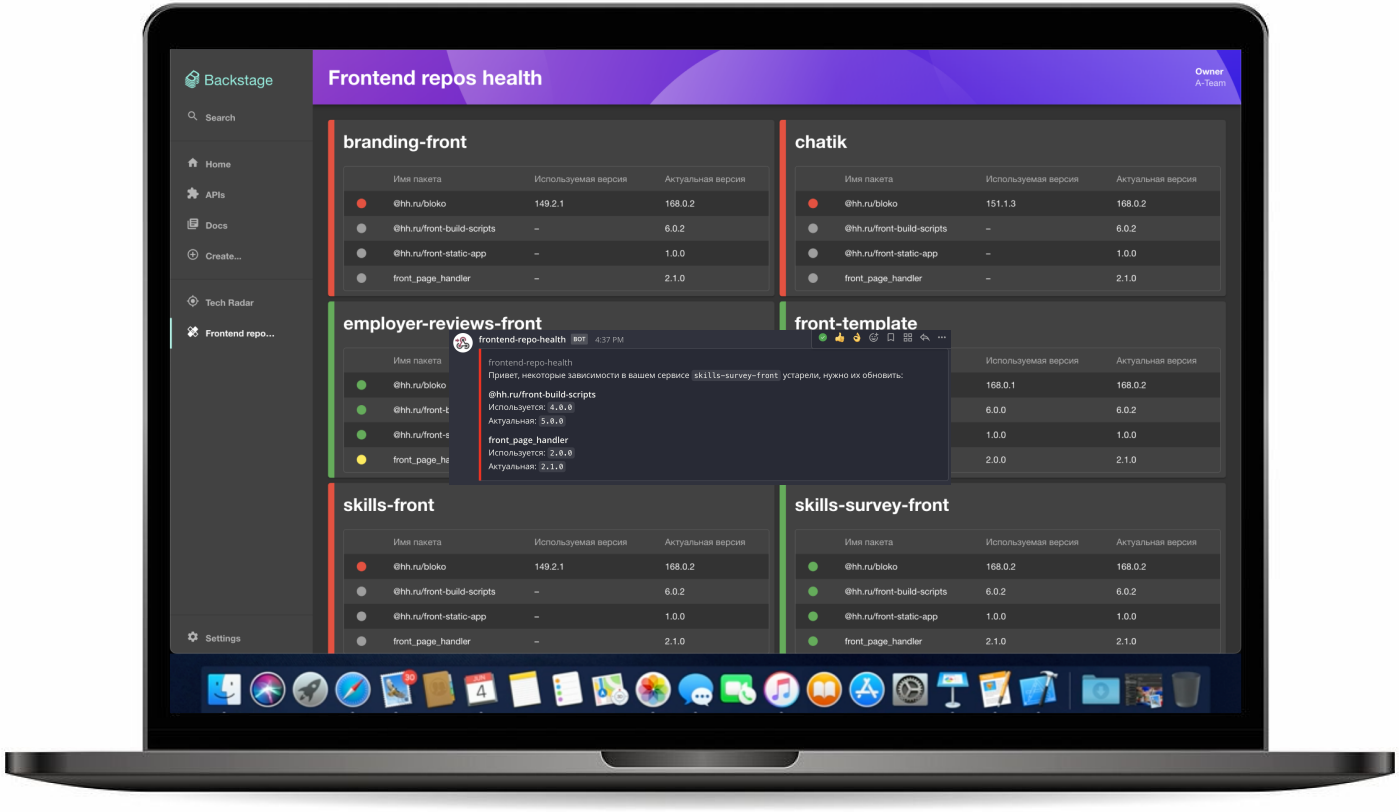
1.0.0
1.0.0
front_page_handler
2.1.0
2.1.0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front_page_handler
–
2.1.0
employer-reviews-front
front-template
frontend-repo-health
BOT
4:37 PM
frontend-repo-health
Привет, некоторые зависимости в вашем сервисе skills-survey-front устарели, нужно их обновить:
@hh.ru/front-build-scripts
Используется: 4.0.0
Актуальная: 5.0.0
front_page_handler
Используется: 2.0.0
Актуальная: 2.1.0
skills-front
@hh.ru/bloko
149.2.1
168.0.2
@hh.ru/front-build-scripts
–
6.0.2
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168.0.2
@hh.ru/front-build-scripts
6.0.2
6.0.2
@hh.ru/front-static-app
1.0.0
1.0.0
front_page_handler
2.1.0
2.1.0

Спасибо! Вопросы?

- module-federation-plugin
- examples
- concepts

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