Gift Certificates

Task 5. REACTJS. Estimated time: 9 days

2019

Technology Stack

JavaScript

1. ES 6

Recommended Tools:

* Development Environment: WebStorm *or any*

Technologies

1. React (<https://reactjs.org>)
2. Node & NPM
3. HTML5
4. CSS3

Bundler

1. Webpack 3 (<https://webpack.js.org/concepts/>)

Unit Testing

1. Chai
2. Mocha

Code Quality

1. ESLint 3 (<https://eslint.org>). Screenshot should be attached to a merge request.
2. Optional: SonarQube

UI Requirements

1. Bootstrap *can* be used.
2. Refreshing of a page should not affect pagination and label localization.
3. Localization should be saved during navigation between pages and login or logout.
4. Duplication of browser’s tab should lead to exactly the same page (pagination, localization, etc.).
5. Styles of header and footer should be implemented according to the mockups, should be static and be stuck to the top and on the bottom of the page.

General requirements

1. Code should be readable, easy maintainable and reusable.
2. Follow component-based application structure.
3. Code should pass ESLint and (optionally) SonarQube.
4. Unit Tests should be written at least for one component and one service.
5. Localization should be done: https://www.npmjs.com/package/react-localization
6. Both Russian and English versions of the application should be available. Only the static content should be localized.
7. Screenshots of a working application should be attached to a merge request.
8. In scope of this task, backend should not be changed.

Useful links

* [Webpack get started](https://getbootstrap.com/docs/4.0/getting-started/webpack/)

ESLint

<https://webpack.js.org/loaders/#linting-testing>

Criteria:

1. There should be no errors in your application.
2. Minimum amount of warnings. Fix as much warnings as you can.

Settings 
Q JavaScript 
v General 
Auto Import 
Breadcrumbs 
Code Folding 
v Color Scheme 
JavaScript 
CoffeeScript 
Pug/Jade 
v Code Style 
JavaScript 
Inspections 
Live Templates 
Intentions 
Plugins 
Languages & Frameworks 
JavaScript 
Libraries 
e 
Languages & Frameworks 
JavaScript language versio 
Prefer Strict mode 
ECMAScript 6 
roject 
ECMAScrøt 2015, 2016 and some propos* 
Only type-based completion Settings 
Appearance & Behavior 
Plugins 
Version Control 
Directories 
Build, Execution, Deployment 
Languages & Frameworks 
v JavaScript 
Libraries 
Webpack 
v Code Quality Tools 
JSLint 
JSHint 
Closure Linter 
ESLint 
Templates 
Yeoman 
PhoneGap/Cordova 
> Schemas and DTDS 
Dart 
is am-I 
O 
e For current project 
Languages & Frameworks JavaScript Code Quality Tools ESLint 
Enable 
Node interpreter: 
ESLint package: 
Configuration file 
Specify path to Standard package to use Standard Code Style 
@ Automatic search 
ESLint will automatical 100k for packagejson files in the directory Of the file to be and in successive parent directories all 
way up o oryo 
TO use package.json, add your configuration under property. 
C) Configuration file: 
In each case, the settings in the configuration file override default settings. 
Additional rules directory: 
Extra eslint Qptions: 
0K Please set up ESLint configuration in your project and make sure that it works fine by running the following command: npm run lintorgrunt eslint

Design Flow

Log in page and Sign up page

*localhost:<port>/login*

*localhost:<port>/signup*

Ce'üficates 
O 
Enter your login 
Enter password 
RU.'EN 
O Name of your site 
o 

(1) Redirect to the page with all available certificates.

(2) Redirect to the page with all available certificates.

(3) Log in the system and redirect to the page with all available certificates.

(4) Navigation bar.

(5) Create a similar page for Sign up functionality.

(6) RU/EN localization for all static content.

All input fields should be validated, and error messages should be displayed according to the following rules:

1. No blank fields.
2. Login field length must not be greater than 30 characters.
3. Password length must not be less than 4 characters.

If one of the conditions is not met, “Login” button should be disabled. For example:

Exanwe of error esplayino 
Error input text 

Page of all available certificates

*localhost:<port>/certificates*

Add new certificate 
Error message 
Title 
RUIEN 
Certificates 
User name 
O 
Login/Logout 
January 3.2017 
Title 
Jnuar,/ IS. 2017 
Description 
70 BYN 

(1) - All actions marked *red* are only available if the user is authorized.

(2) - If there is any error in the system, inline error popup should be displayed.

(3) - By default, the data is ordered by creation date. The user can filter the data by tags, title, description, and price. Make interactive search. You may create your own special characters.

For example, a search query

fluffy #(little cat) #(fun)

returns certificates that correspond to all statements below:

* have tags “little cat” and “fun”,
* contain “fluffy” in title or description.

(4) - This functionality is available for admin.

(5) - This functionality is available for User and Admin.

Buttons Add, Edit, Delete, Buy are *not* available for Guest.

(6) - This dropdown should be hidden if your current role is Guest.

(7) - Perform search by clicking on a tag.

(8) - Description limit is 250 characters.

(9) - Click on the title opens a popup with the full information about the certificate.

(10) - This dropdown shows page size.

Add or Edit certificate

*localhost:<port>/add*

*localhost:<port>/edit*

Certificates 
RU,'EN 
Add/Edit certificate 
Input text exceeded character limit 
Description 
Input text exceeded character limit 
User name 
Logout 
Some tag 
Y yyc 
O This component should be reused on both pages.

(1) - Create your own tag component or reuse something likehttps://www.npmjs.com/package/react-tag-input.

Add Certificate: only “Add” button is available.

Edit Certificate: only “Edit” and “Delete” buttons are available. Form should contain pre-populated data

After submit, a user is redirected to the page of all available certificates, otherwise an inline error message is displayed.

Title, description, and price fields are required and should be validated according to the following rules:

1. No blank fields.
2. Title field must not be greater than 30 characters.
3. Description field must not be greater than 1000 characters.
4. Price must be a number or float and be greater than 0.

If one of the conditions is not met, “Add” or “Edit” button should be disabled.

“Tag” field is optional, but tag name should be not greater than 15 characters.

“Delete” button should call a confirmation dialog box.

Certificates 
RU/EN 
Add/Edit certificate 
Do you want to delete this certificate? 
Tag 
Some g 
User name 
Logout 

In addition, if you make changes in the form data and would like to navigate to the other page, a confirmation dialog should be displayed with the following message:

“You have unsaved data. Do you want to leave this page?”

<https://dev.to/iamdammak/setting-up-eslint-in-your-javascript-project-with-vs-code-2amf>

<https://proglib.io/p/webpack-in-15/>

<https://tproger.ru/translations/webpack-from-zero-to-hero/>

<https://getinstance.info/articles/react/react-and-es6-part2/>

<https://medium.com/nuances-of-programming/%D0%BA%D0%B0%D0%BA-%D1%81-%D0%BD%D1%83%D0%BB%D1%8F-%D1%81%D0%BE%D0%B7%D0%B4%D0%B0%D1%82%D1%8C-%D0%BF%D1%80%D0%BE%D0%B5%D0%BA%D1%82-%D0%BD%D0%B0-react-%D0%B8%D1%81%D0%BF%D0%BE%D0%BB%D1%8C%D0%B7%D1%83%D1%8F-webpack-4-%D0%B8-babel-172c256d228>

<https://github.com/andyhaskell/webpack-mocha-tutorial/blob/master/package.json>

Анатомия React. Урок 1. Зачем нам это?

<https://www.youtube.com/watch?v=ODaGricgyIE&list=PLvWwA9iDlhHBQ6razvwomGcUIfQm4fk6D>

<https://medium.com/@romanchvalbo/how-i-set-up-react-and-node-with-json-web-token-for-authentication-259ec1a90352>

<https://www.youtube.com/watch?v=Nq9RmAB9eag>

<https://github.com/vayser/react-js-pagination>

<https://medium.com/@agoiabeladeyemi/pagination-in-reactjs-36f4a6a6eb43>

pages- <https://stackblitz.com/edit/react-redux-registration-login-example?file=App%2FApp.js>

login <https://gist.github.com/joelgriffith/43a4a8195c9fd237a222fe84c2b2e2b4>

auth and git <https://jasonwatmore.com/post/2018/09/11/react-basic-http-authentication-tutorial-example>

cors <https://github.com/spring-projects/spring-security-oauth/issues/938>

<https://medium.com/@baphemot/understanding-cors-18ad6b478e2b>

router lessons <https://github.com/reactjs/react-router-tutorial/tree/master/lessons>

<https://github.com/revathskumar/react-server-render/tree/react-router-v4-redux>

<https://blog.pshrmn.com/simple-react-router-v4-tutorial/>

<https://react-bootstrap.github.io/>

chai

<https://docs.cypress.io/guides/references/assertions.html#BDD-Assertions>

<https://www.chaijs.com/api/bdd/>