

# Questionnaire portal (Spring)

## Test Project for JAVA Developers

### Requirement teck stack

1. Java 8+
2. Maven or Gradle
3. Spring boot + Spring mvc
4. JPA, Spring data, Hibernate
5. DB: PostgreSQL
6. Angular JS (Angular) or ReactJS or Vie.js
7. Twitter Bootstrap
8. WebSockets
9. Source code to public git repo (github.com)
10. IDE: IDEA
11. Optional: Deploy app on remote server (Heroku, DigitalOcean)

### Main rules

This document is private property of Softarex Technologies Inc company. This task is not a part of real project and one will be never used as part of real project. The goal of this task is verification the employee skills.

Juniors JAVA developer should complete in full this project within 1 months. It is possible to submit project for review if it completed at least to 70%.

Project should be provided with necessary documentation for its installation, initial pre-filled data and short description of main classes and methods.

**With this project we also measure abilities of candidate learn new technologies and because this it is strongly required that project will be developed exactly with requested technologies.**

Any additional technologies\design patterns – not necessary but may be included and will be taken into account positively.

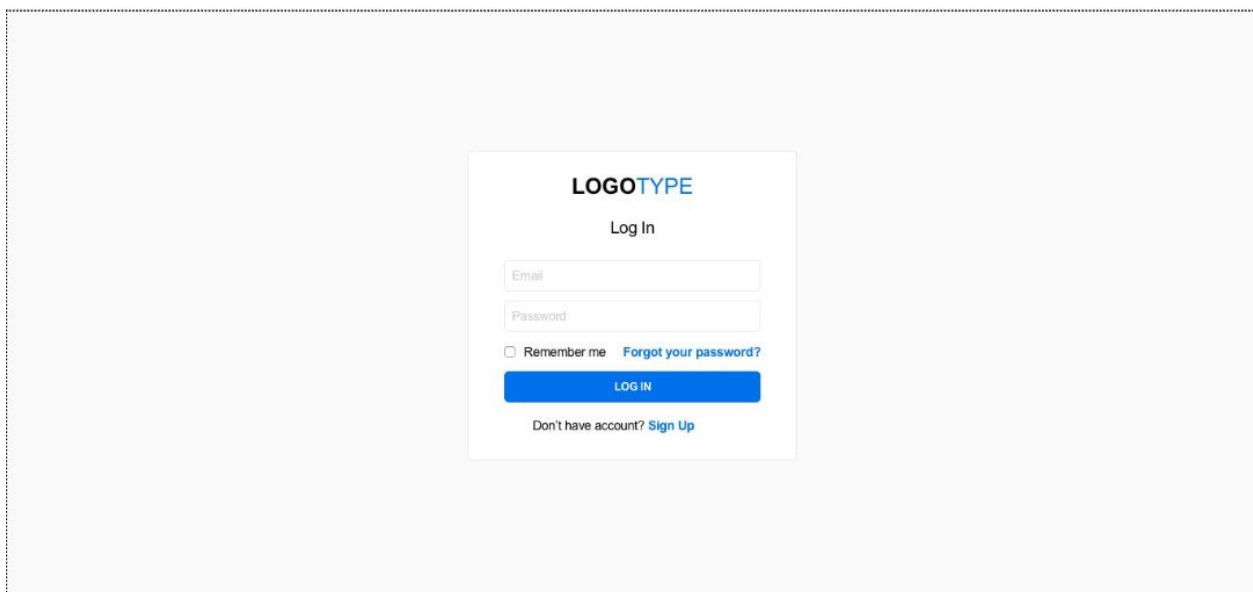
## Technical details and overview

Application designed to collect data from users. Form for data collection will have generic number of fields. Field is an entry from database. Field has next fields:

- 1) Label - string
- 2) Type - enumeration (single line text, multiline text, radio button, checkbox, combobox, date)
- 3) Required - boolean (response to this field will be required)
- 4) Is Active - boolean (user make field not active for any reason, it will remove field from the form)

Application will consist of 8 pages:

### 1) Login page

A mockup of a login page for a service named LOGOTYPE. The page has a light gray background. In the center, there is a white rectangular box containing the login form. At the top of the box is the text "LOGOTYPE" in bold, with "LOGO" in black and "TYPE" in blue. Below it is the text "Log In". There are two input fields: "Email" and "Password". Below the "Password" field, there is a checkbox labeled "Remember me" and a link "Forgot your password?". At the bottom of the form is a blue button with the text "LOG IN" in white. Below the button is a link "Don't have account? Sign Up".

### 2) Sign Up page (Email notification after registration is required)

LOGO

TYPE

Sign Up

Email \*

Password \*

Confirm Password \*

First Name

Last Name

Phone Number

SIGN UP

Already have account? [Log In](#)

### 3) Edit profile page

LOGO

TYPE

Fields

Responses

John Doe ▾

Edit Profile

First Name

John

Last Name

Doe

Email \*

johndoe@gmail.com

Phone Number

+380771234567

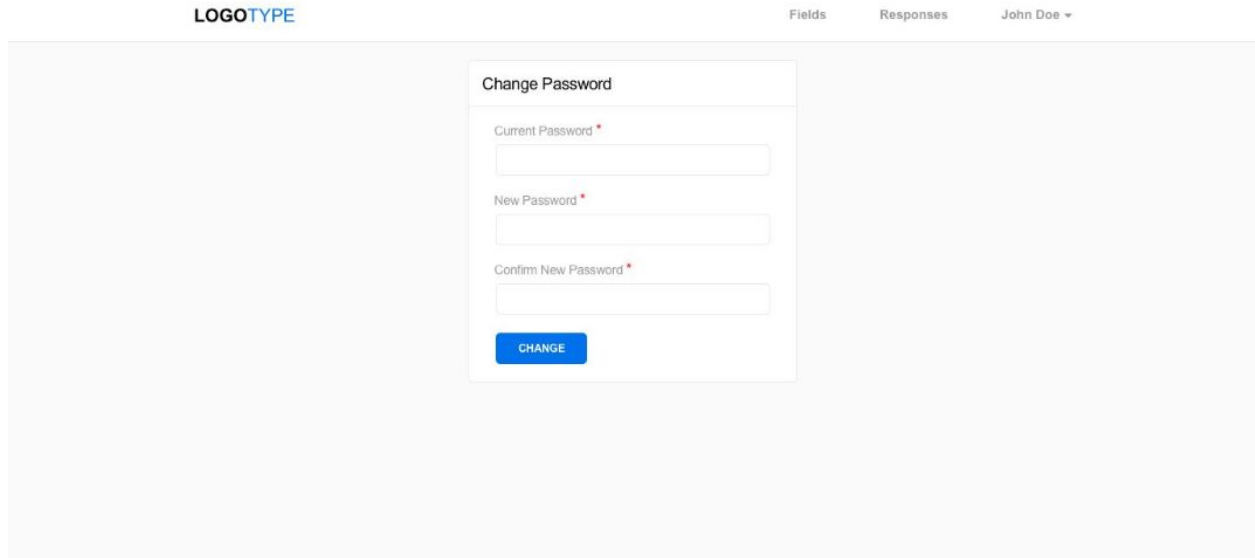
SAVE

Edit Profile

Change Password

Log Out

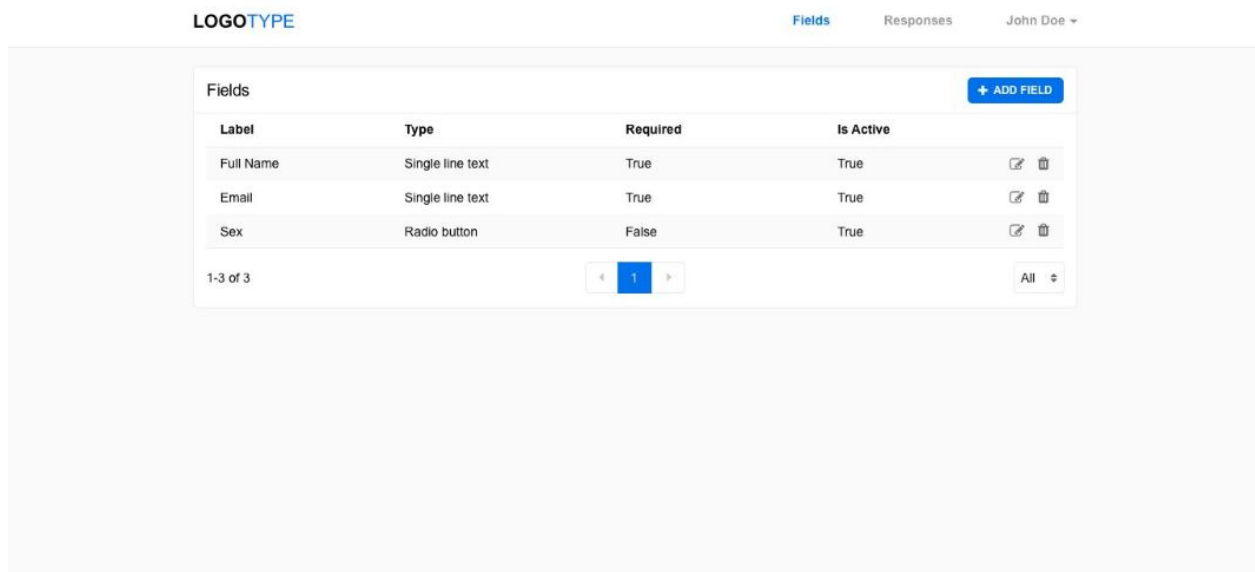
#### 4) Change password page (Email notification after changing is required)



The screenshot shows a web application interface with a top navigation bar containing the logo "LOGO TYPE", and links for "Fields", "Responses", and a user profile "John Doe". The main content area features a "Change Password" form. The form has three input fields: "Current Password", "New Password", and "Confirm New Password", each followed by a red asterisk indicating it is required. Below the fields is a blue button labeled "CHANGE".

#### 5) Fields list page

Here will be listed all Fields stored in database. User will be able to create, edit, delete fields. Page should be available on path domainname.com/fields.

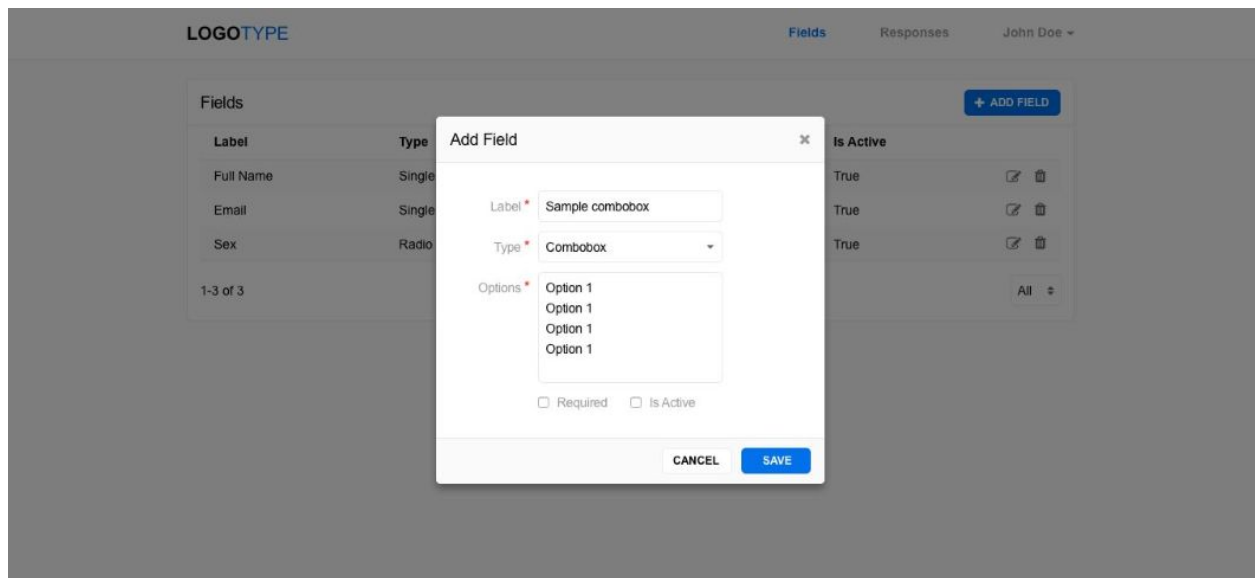


The screenshot shows a web application interface with a top navigation bar containing the logo "LOGO TYPE", and links for "Fields", "Responses", and a user profile "John Doe". The main content area features a "Fields" table. The table has four columns: "Label", "Type", "Required", and "Is Active". There are three rows of data: "Full Name" (Single line text, True, True), "Email" (Single line text, True, True), and "Sex" (Radio button, False, True). Each row has edit and delete icons. Below the table is a pagination bar showing "1-3 of 3" and a page number "1". There is also an "ADD FIELD" button in the top right corner of the table area.

Label	Type	Required	Is Active
Full Name	Single line text	True	True
Email	Single line text	True	True
Sex	Radio button	False	True

## 6) Add/edit field dialog

Here user will be able to create new fields with definite number of properties. All properties are required.



## 7) Questionnaire page

It will give possibility to fill all active field created on page #5. Not required fields can be left empty. Resetting form will clean out all entered data (reset button not present on mockup but should be implemented). After submission user will be redirected to congratulation page (#8). Page should be available on default path domainname.com/

LOGOTYPE

Log In

Full Name \*

John Doe

Email \*

john.doe@gmail.com

Sex

☒ Male

☐ Female

Date of birth

Sep 8, 2017

Sample combobox

Select option

SUBMIT

## 8) Success submit of answer

LOGOTYPE

Log In

Thank you!

Your response was saved.

## 9) Responses list page

Here will get all the responses completed by users. They will get in this list automatically after submitting. For this will be used web sockets: the number of responses in menu should be updated every time someone submits data. Columns on this for correspond for each field created on page #5. Number of columns is not changing dynamically while user is on the page

and it getting changed when user refreshes the page. If there is no data for the column there should be static label "N/A". Page should be available on path domainname.com/responses.

LOGOTYPE

FieldsResponsesJohn Doe ▾

Responses

Full Name	Email	Sex	Date of birth	Sample combobox
John Doe	johndoe@gmail.com	Male	12 Jan 1984	Option 1
John Doe	johndoe@gmail.com	Female	23 Aug 1992	N/A

1-2 of 2

<1>

All ▾