**SERVER-SIDE MODULE**

# CONTENTS

## This module has the following files:

1. MODULE\_SERVER\_SIDE.doc
2. MODULE\_SEVER\_SIDE\_MEDIA.zip

# INTRODUCTION

We know many people lost their jobs during the covid-19 pandemic. So the government appoints you as a competent person to create a job seekers platform.

The goal of this platform is so that societies can find work on the platform without having to come to the company location directly and can also see when and where society can come to the company location.

# DESCRIPTION OF PROJECTS AND TASKS

Registration involves the society platform (registering to the platform and applying for jobs), the company platform (giving jobs, viewing and accepting/rejecting registrations from the society), and the officer platform (updating company data, checking the validity of society data).

But your scope of work on this module is only to **create a society platform**. This module is divided into two phases:

* Phase one for creating a Society Job application REST API using one of provided PHP frameworks
* Phase two for building a Frontend using provided **JavaScript** libraries (react/angular/vue) of Society Job application Platform

# Phase one – Society Job Seekers REST API

## Authentication

Before a society performs any activity on the society platform, they must be logged in using their **ID card number and password**. After successfully logging in, the token will be automatically generated from the **md5 of society ID card number**.

## Specifications :

Feature: A1 - Login and Logout as society: as a visitor, i want to login so that i can enter the system and applying for jobs.

Scenario: Society Login

Request:

URL: [domain]/api/v1/auth/login

Method: POST

Header:

Body: { id\_card\_number: “SomeText”, password: “SomeText” }

Response:

A1a - If login success

Header: Response code: 200

Body: {

"name": "Doni Rianto",

"born\_date": "1974-10-22",

"gender": "male"|”female”,

"address": "Ki. Raya Setiabudhi No. 790",

"token": "e96aaafb6f2f76460b8cc93723bd030e",

"regional": {

"id": 1,

"province": "DKI Jakarta",

"district": "Central Jakarta"

}

}

A1b - If ID Card Number or Password incorrect

Header: Response code: 401

Body: { "message": "ID Card Number or Password incorrect" }

Scenario: Society Logout

Request:

URL: [domain]/api/v1/auth/logout

Params: { token }

Method: POST

Header:

Body:

Response:

A1c - If logout success

Header: Response code: 200

Body: { "message": "Logout success" }

A1d - If logout invalid token

Header: Response code: 401

Body: { "message": "Invalid token" }

# Request Data Validation

To be able to apply for jobs, the society must validate data on the platform first. The society can view validity status and make validation requests. The society can only make one validation data request.

## Specifications:

Feature: A2 - Request Data Validation: As a society, I want to request data validation so that I can apply for jobs when my data validation is accepted.

Scenario: Request data validations

Request:

URL: [domain]/api/v1/validation

Params: { token }

Method: POST

Header:

Body: { work\_experience: “SomeText”, job\_category: “JobCategoryID”, job\_position: “SomeText” , reason\_accepted: “SomeText” }

Response:

A2a - If request data validation success

Header: Response code: 200

Body: { "message": "Request data validation sent successful" }

A2b - If invalid token

Header: Response code: 401

Body: { "message": "Unauthorized user" }

Scenario: Get society data validation

Request:

URL: [domain]/api/v1/validations

Params: { token }

Method: GET

Header:

Body:

Response:

A2c - If success

Header: Response code: 200

Body: {

“validation”: {

"id": 1,

"status": "pending”|”accepted”|”rejected",

"work\_experience": "SomeText”|null,

"job\_category\_id": "SomeText"|null,

"job\_position": "SomeText"|null,

"reason\_accepted": “SomeText”|null,

"validator\_notes": “SomeText”|null,

"validator": { VALIDATOR }|null

}

}

A2d - If invalid token

Header: Response code: 401

Body: {"message": "Unauthorized user"}

# Job Vacancy

When the validation data has been accepted by the validator and society will applying for jobs, the society can choose the job vacancy based on the job category that has been selected during data validation. List of available job vacancy at each company should also be displayed.

In the job vacancy detail, calculate the number of people who have registered for this job.

**Specifications**:

Feature: A3 – Job Vacancy: As a society, I want to see job vacancies in my job category.

Scenario: Get all job vacancy by chosen job category

Request:

URL: [domain]/api/v1/job\_vacancies

Params: { token }

Method: GET

Header:

Body:

Response:

A3a - If success

Header: Response code: 200

Body: {

"vacancies": [

{

"id": 1,

"category" : {

"id": 1,

"job\_category": "SomeText",

},

"Company": "PT. Maju Mundur Sejahtera",

"address": "Jr. Gotong Royong",

"description": "Lowongan pekerjaan untuk

beberapa list berikut",

"available\_position": [

{

"position": "Web Developer",

"capacity": 2,

"apply\_capacity": 15,

},

...,

]

},

...,

]

}

A3b - If invalid token

Header: Response code: 401

Body: { "message": "Unauthorized user" }

Scenario: Get job vacancy detail by vacancy ID and date

Request:

URL: /api/v1/job\_vacancies/< id>

Params: { token, id }

Method: GET

Header:

Body:

Response:

A3c - If success

Header: Response code: 200

Body: {

"vacancy": {

"id": 1,

"category" : {

"id": 1,

"job\_category": "SomeText",

},

"company": "PT. Maju Mundur Sejahtera",

"address": "Jr. Gotong Royong",

"description": "Lowongan pekerjaan untuk

beberapa list berikut",

"available\_position": [

{

"position": "Web Developer",

"capacity": 2,

"apply\_capacity": 15,

"apply\_count": 10,

},

...,

]

},

}

A3d - If invalid token

Header: Response code: 401

Body: { "message": "Unauthorized user" }

# Applying for Jobs

The society can applying for a jobs if the validation data has been accepted by the validator.

Application for a job vacancy can only be once.

Vacancy ID and position must be filled where the society can choose more than one position where the position has not reached the maximum apply.

## Specifications:

Feature: A4 – Applying for Jos: as a society, i want to applying for jobs.

Scenario: Applying for jobs

Request:

URL: /api/v1/applications

Params: { token }

Method: POST

Header:

Body: { vacancy\_id: 1, positions: [position 1, ...],

notes : “SomeText” }

Response:

A4a - If success

Header: Response code: 200

Body: { "message": "Applying for job successful" }

A4b - If invalid token

Header: Response code: 401

Body: { "message": "Unauthorized user" }

A4c - If the society validation data hasn’t accepted by validator

Header: Response code: 401

Body: { "message": "Your data validator must be accepted by validator before" }

A4d - If invalid fields

Header: Response code: 401

Body: {

"message": "Invalid field",

"errors": {

"vacancy\_id": [

"The vacancy id field is required."

],

"positions ": [

"The position field is required."

]

}

}

A4e - If have been 2x applying

Header: Response code: 401

Body: { "message": " Application for a job can only be once" }

Scenario: Get all of society job applications

Request:

URL: [domain]/api/v1/applications

Params: { token }

Method: GET

Header:

Body: Response:

A4f - If success

Header: Response code: 200

Body: {

"vacancies": [

{

"id": 1,

"category" : {

"id": 1,

"job\_category": "SomeText",

},

"company": "PT. Maju Mundur Sejahtera",

"address": "Jr. Gotong Royong",

"position": [

{

"position": "Web Developer",

"apply\_status": "pending”|”accepted”|”rejected",

"notes": "I want this position",

},

...,

]

},

...,

]

}

A4g - If invalid token

Header: Response code: 401

Body: { "message": "Unauthorized user" }

# Phase two - Society Job Seekers Platform (Frontend)

In this phase, you can use the gui template provided in the media files to build a society platform. Use the REST API following the REST API you created before.

Implement REST API into the frontend. All response formats must be in JSON form.

# Society login and logout

To be able to enter the system, the society must first login using the ID card number and password. When the society has entered the system, the logout button will appear, and the society can exit the system by clicking the logout button

Specifications:

Feature: B1 - Society login and logout: as a visitor, i want to login into society Job application platform and logout to exit the system.

Scenario: B1a - Society login success

Given I am on the login page

And I enter correct id\_card\_number and password

Then I redirected to society dashboard page

Scenario: B1b - Society login fails

Given I am on the login page

And I enter wrong id\_card\_number or password

Then I stay in the login page and I see error message “ID Card Number or Password incorrect”

Scenario: B1c - Society logout success

Given I am on the any page that has been logged in

And I press logout button

Then I get message “logout success” and redirected to login page

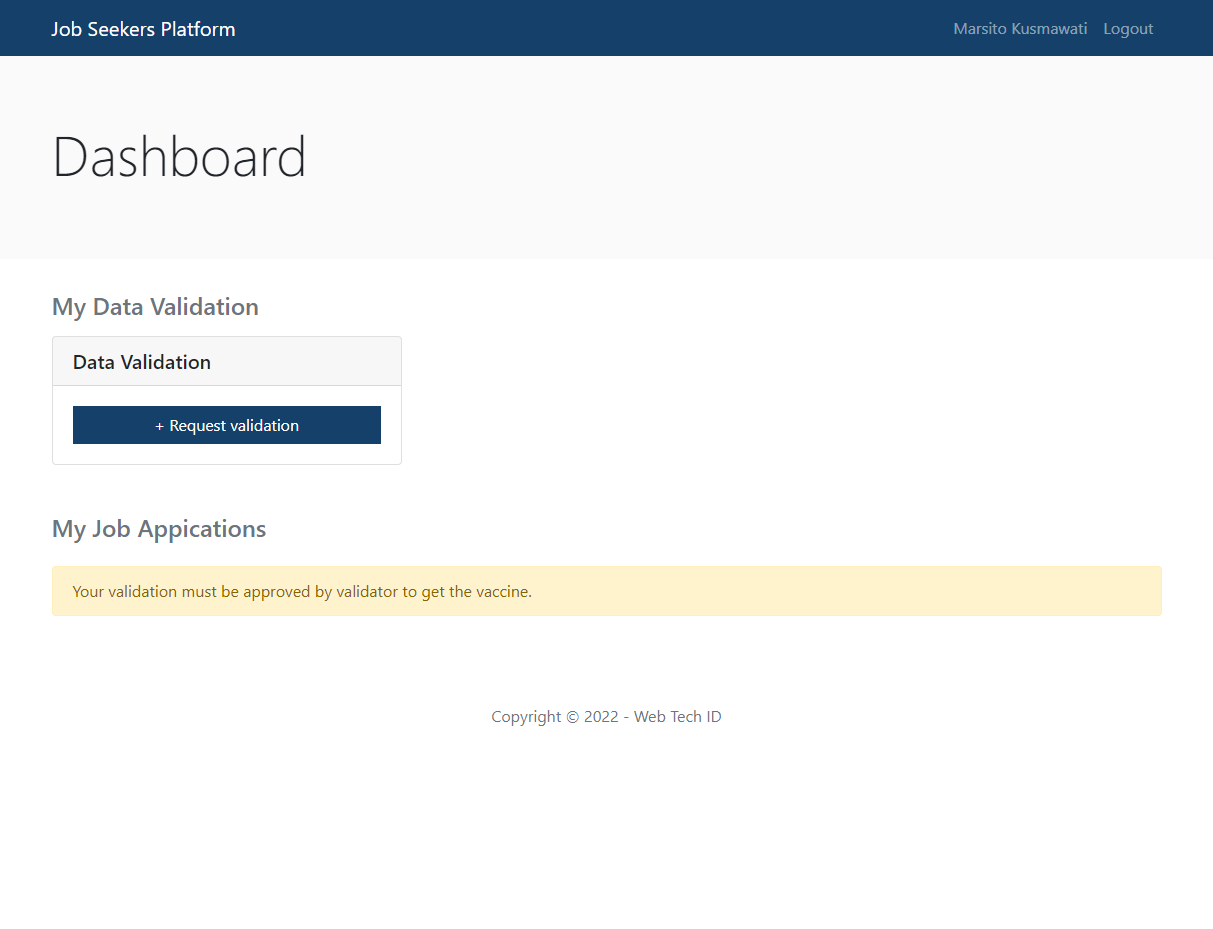
And I cannot reach the previous page by going back

# Society Dashboard

In the dashboard page, there are two sections, data validation and job application section. Where the society must request data validation and the data validation is approved by the validator to be able to register for job application.

## Specifications:

Feature: B2 - Society Dashboard: as a society, i want to see data validation info and my job applications list in the dashboard page.



Scenario: B2a – Data validation section is displayed

Given I am on dashboard page

Then I see the data validation section with “My Data validation” title

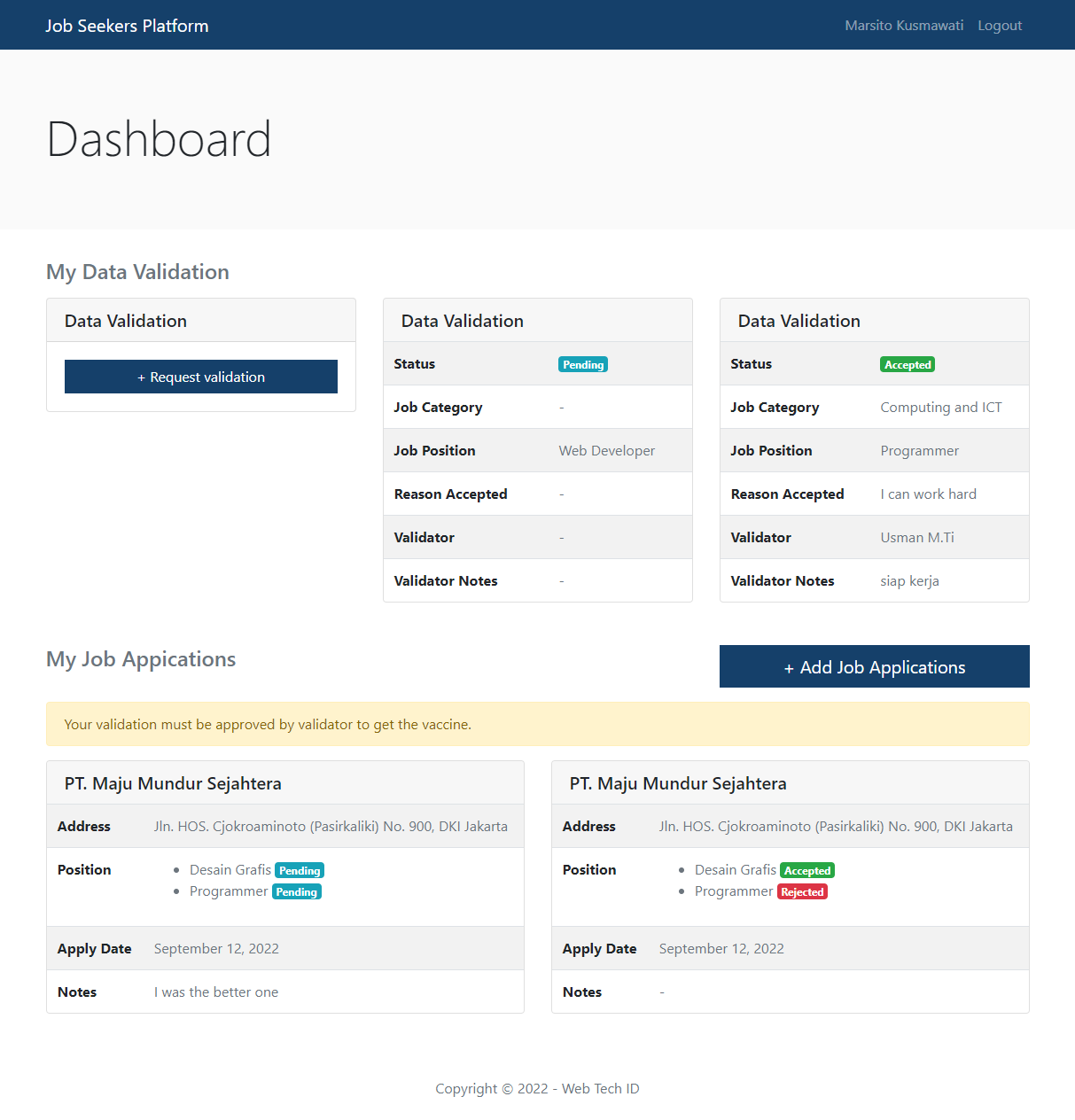
Scenario: B2b - Link to request data validation appears when society hasn’t data validation before

Given I am on dashboard page

And I haven’t request data validation before

Then I see request data validation link in the data validation section

Scenario: B2c - Show data validation info



Given I am on dashboard page

And my request data validation is sent or accepted/rejected by validator

Then I see data validation info in the data validation section

Scenario: B2d - Job application list section is displayed

Given I am on dashboard page

Then I see the Job application list section with “Job applications” title

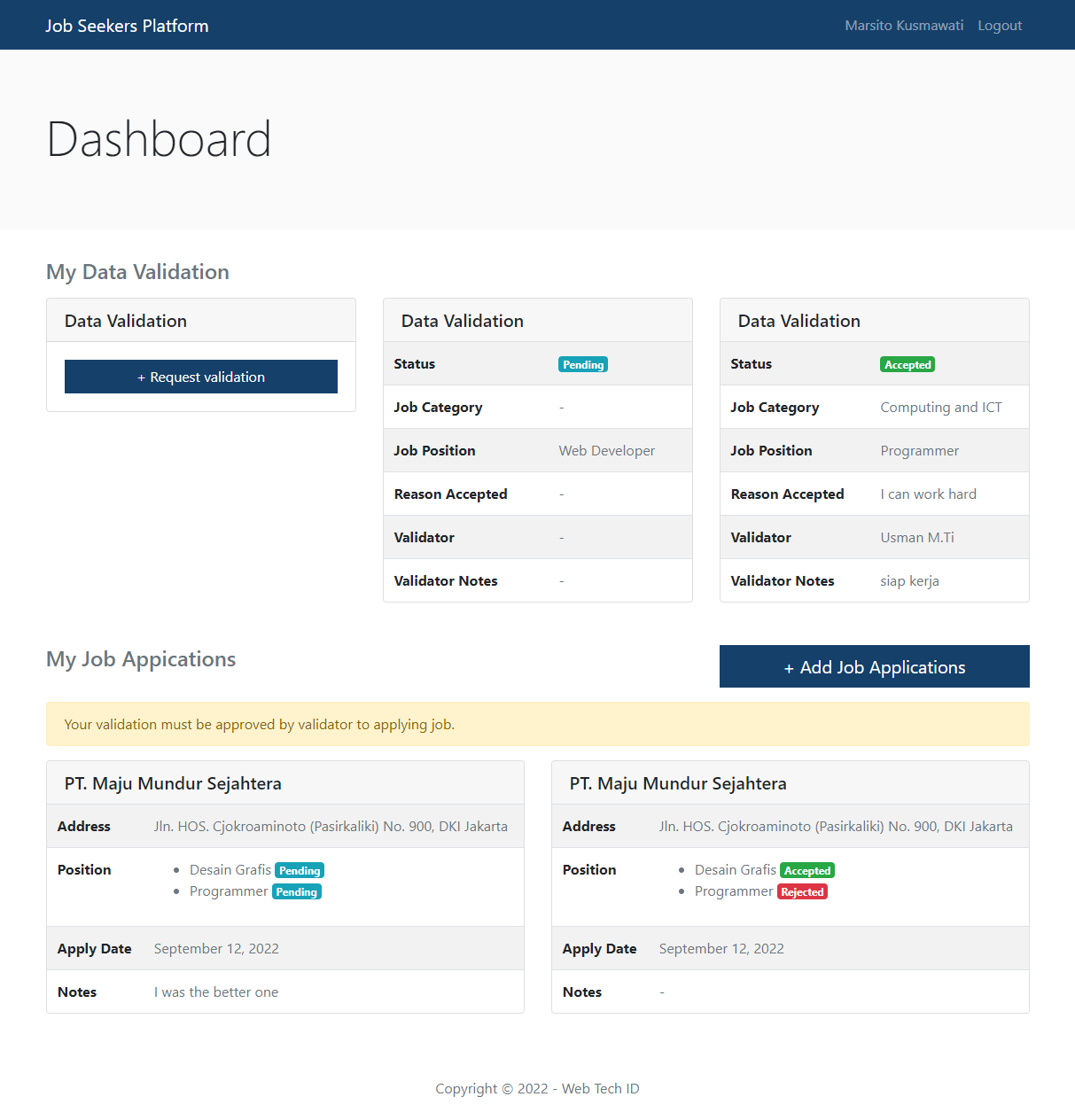
Scenario: B2e - Show Job application info message

Given I am on dashboard page

And I haven’t request data validation before

Then I see “Your data validation must be approved by validator to get the applying job” in the Job application list section

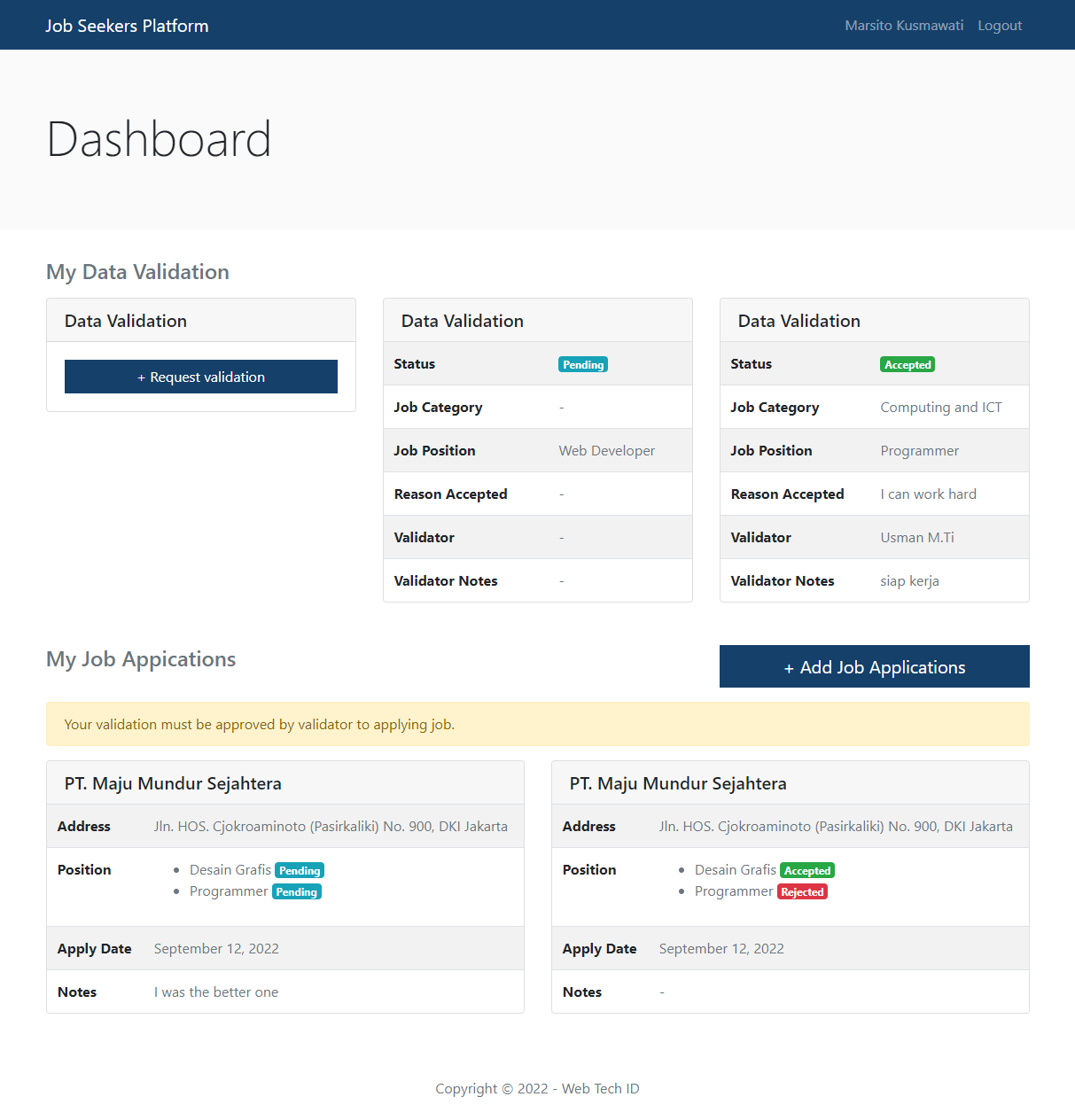
Scenario: B2f - The Job application is displayed when society data validation have been accepted by validator



Given I am on dashboard page

And I my request data validation has been accepted by validator

Then I see the Job application with link is displayed in the Job application list section



Given I am on dashboard page

And my Job application is finished

Scenario: B2h - The Job applications show Job application info correctly when Job application is finished

Given I am on dashboard page

Then I see Job application info (company, address, position, apply date, notes) in the Job application box

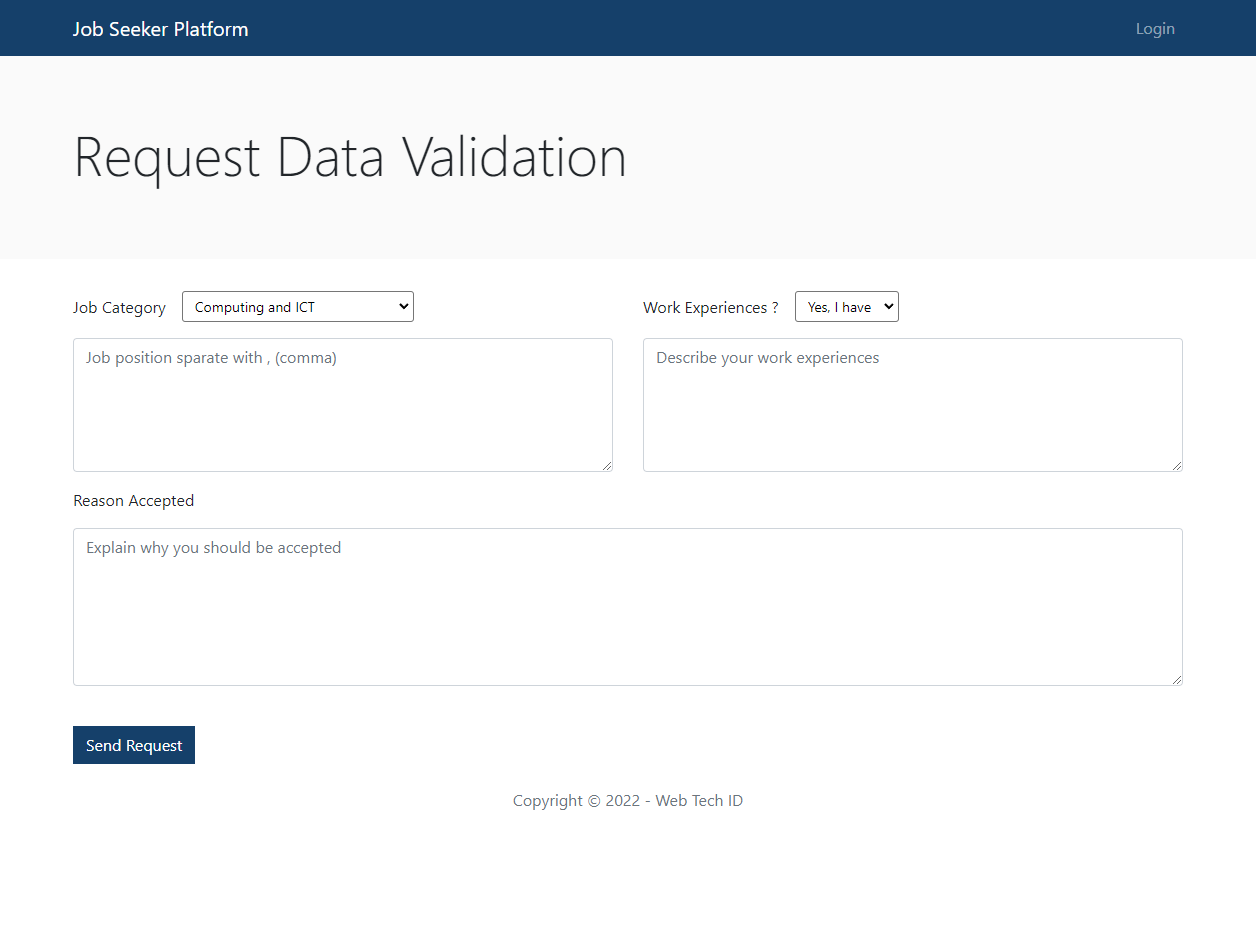
# 

# Request Data validation

In the data validation request page, the society can fill in the job position if they have by selecting the job category, can fill the work experiences if they have by selecting "Yes, I have" in the dropdown work experiences question and they can send a request if the reason accepted has been filled.

## Specifications :

Feature: B3 - Society Data validation: as a society, I want to request data validation.



Scenario: B3a - Data validation form is displayed correctly

When I press “Request data validation” button in the dashboard page

Then I see the data validation form (job category, job position, work experiences, reason accepted) is displayed

Scenario: B3b - Show job position form by choosing “job category”, show work experiences textarea by choosing “Yes, I have” and show send request button by fill reason accepted

Scenario: B3c - Request data validation successful

Given I am on request data validation page

And I press request button

Then the request data validation is sent, the “Request data validation successful” message is appear, and I redirected to dashboard page

# 

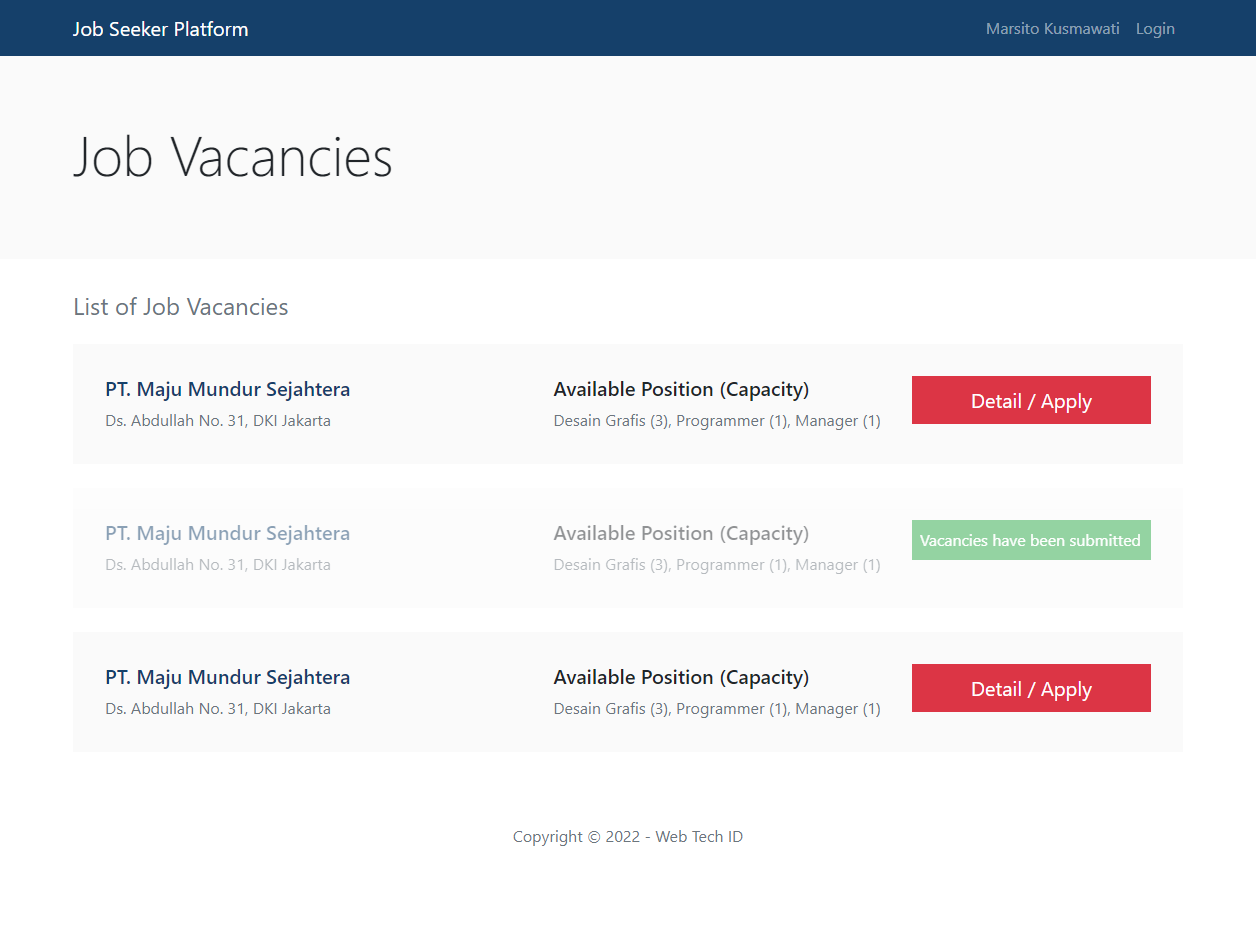
# Job Vacancies List

When the society registers for a Job application by pressing the "Add Job application" button on the dashboard page, the society is directed to the list Job vacancies page to select Job vacancies. In the item job vacancies, display the applying jobs available in those vacancies correctly.

Job vacancies are displayed by job category. In each job category the applying job has different job vacancies.

## Specifications :

Feature: B4 - Job vacancies List: as a society, I want to see a list of Job vacancies by my job category.



Scenario: B4a - Show list Job vacancies by society job category

Given I am on Job vacancies list page

Then I see a list of Job vacancies in my job category

Scenario: B4b - Show information for each job vacancies

Given I am on Job vacancies page

Then I see job information (company, address, description, positions) in each job vacancy item.

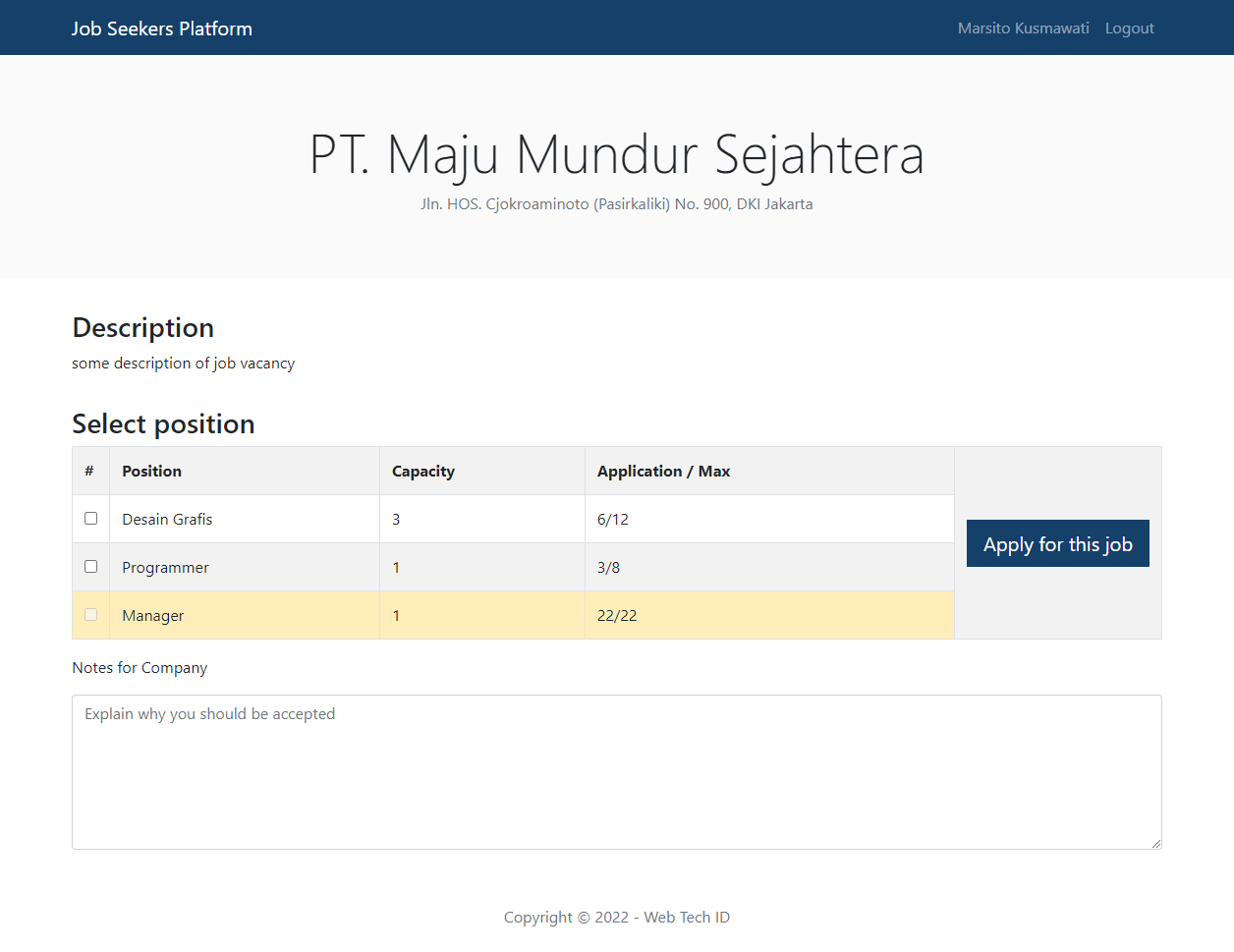
Scenario: B4c – Job vacancy item unavailable when the job vacancy has been apply before.

# Detail Job Vacancy

In the Job vacancy detail page, there are show details of job vacancy like company name, address, description, available positions. Society can apply for a job by filling job positions and notes for the company.

## Specifications :

Feature: B5 - Detail Job vacancy: as a society, I want to see details of Job vacancy and see available job positions, capacity and how many people have applied before.



Scenario: B5a - Information displays correctly

Given I am on Job vacancy detail page

Then I see the section with job positions that have been shown the capacity, total of society applying for jobs with maximum applicants is displayed correctly.

Scenario: B5b - Can apply for a job position if the total number of applicants is below the specified maximum

Given I am on Job vacancy detail page

Then I see job position with total capacity, applicants and maximum applicants

Scenario: B5c - Register Job application

Given I am on Job vacancy detail page

I choose job position with no yellow mark (the total number of applicants is below the specified maximum)

I fill the Notes for company field

And I press “Apply for this Job” button

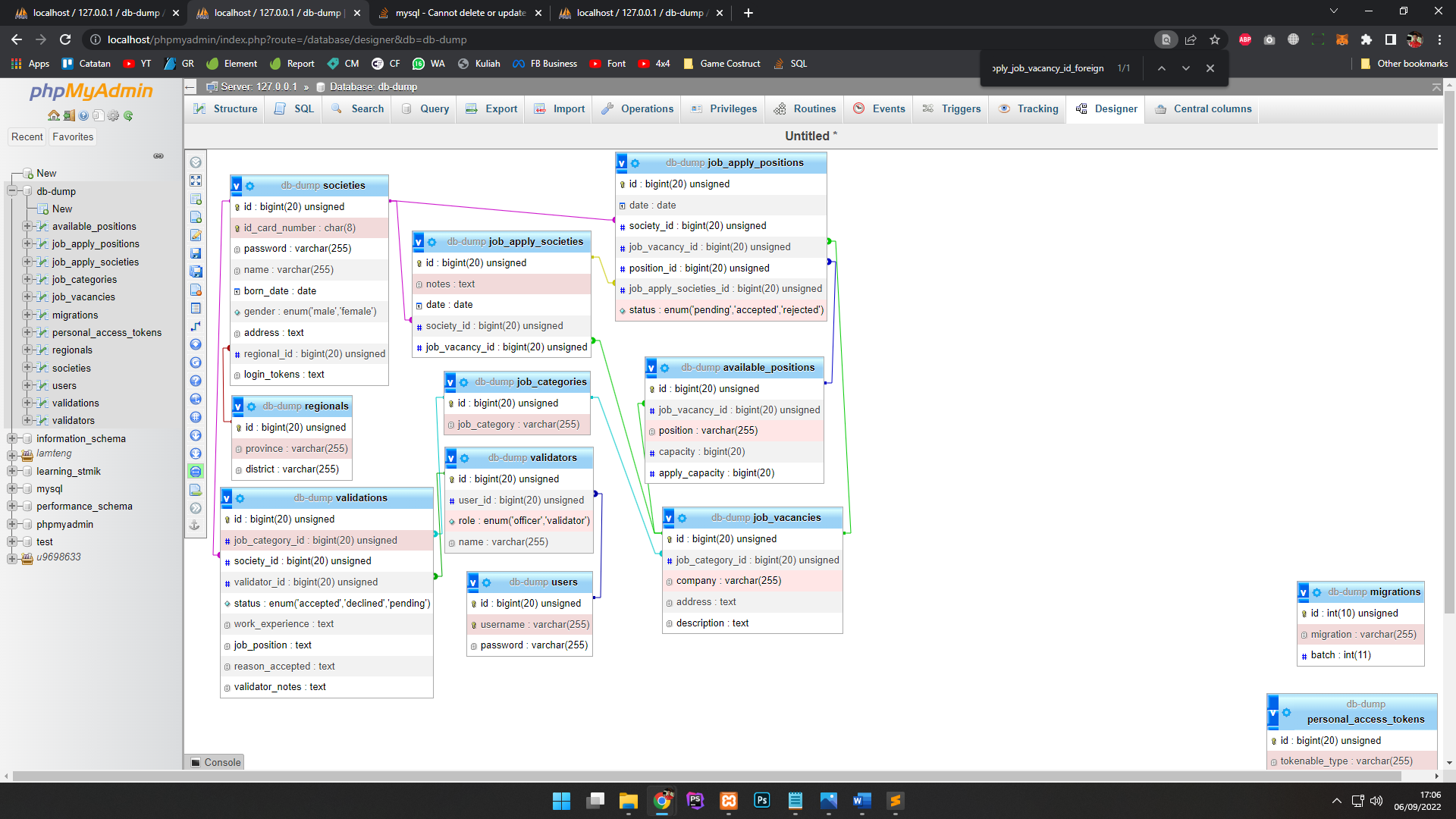
Then the success or error message is appear and I redirected to dashboard page

**Notes**:

* For each response from the REST API must be displayed.
* Build the frontend into production mode first before your frontend project is pushed and the REST API must be consumed from your API before.

# ERD

You can use and improve ERD below:



# INSTRUCTION FOR COMPETITORS

* Import the database that has been provided in db-dump in the media files folder.
* Save your work in the "serverside" folder :
* Society Job application REST API : serverside/backend/
* Society Job application Platform : serverside/frontend/

## For the frontend, you must be built to production and save in serverside/frontend/dist/ folder.

## Postman environment and collection provided in SERVER\_SIDE\_MEDIA/postman/

## You can check community accounts based on Job application stages by looking at the accounts that have been provided in the folder SERVER\_SIDE\_MEDIA/account/

## Use the gui templates provided in the media files.

## Create/generate a DB-diagram named “db-diagram.xxx” (xxx is the extension/type of the file eg. pdf or jpg) and put it into the directory mentioned above. Example:

## For this module, you must use one of the three available frameworks provided. Applications developed without use of any of these frameworks will not be considered. You should take advantage of the framework as much as possible.