# Vacancy Web application
# Functional Design
# V2.0.0

Document history

| Date | Version | Description | Author |
|---|---|---|---|
| 01-01-2023 | V2.0.0 | Modify detail after received the feedback | |
| 14-12-2022 | V1.0.0 | Initial | |

Authors

| Name | Role | Department |
|---|---|---|
| | | |

Approvals

| Approval Date | Approved Version | Approver Role | Department |
|---|---|---|---|
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1. Introduction
   1.1. Purpose of this document
   - This is a document that provides detailed information on how the system solution will function and the requested behavior. This document is created based on the high-level requirements identified in the Business Requirements Document and provides traceability on the functional specifications back to the business requirements. Included in this document will be the detailed functional requirements including use cases, process flows, diagrams, and mock ups.

   1.2. Project scope
   - Business users are looking to build a web platform that allows users to create and manage the job advertisements and job applicants; by having that integrated platform, business users could easily track the number of jobs and applicants that existed in the system and allow them to plan ahead the job advertising schedule.
   - The project is aiming to deliver the first interim solution that provides the job posting and job application functionalities along with user registration and user profile management.

   1.3. Related documents
   N/A

   1.4. Terms/Acronyms and Definitions

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|---|---|---|
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   1.5. Risks and Assumptions

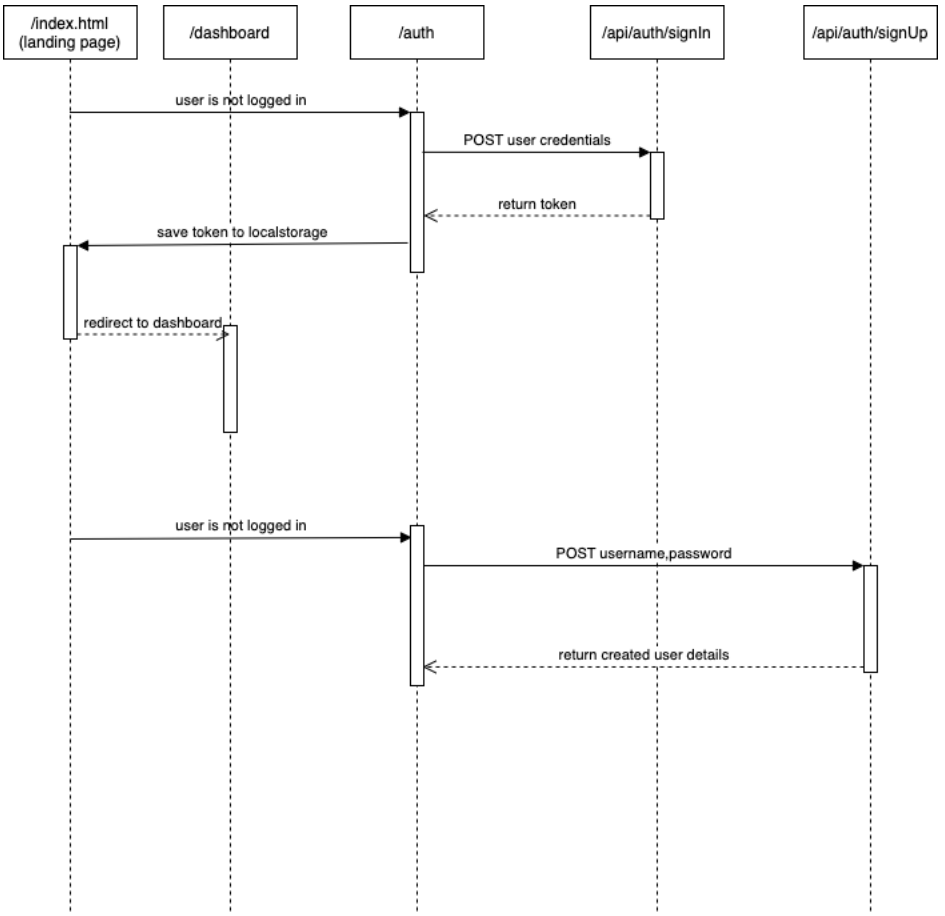
- The project is built using Java spring-boot backend and react frontend, it should be able to run in any platform or VM that support java runtime.

2. System Overview

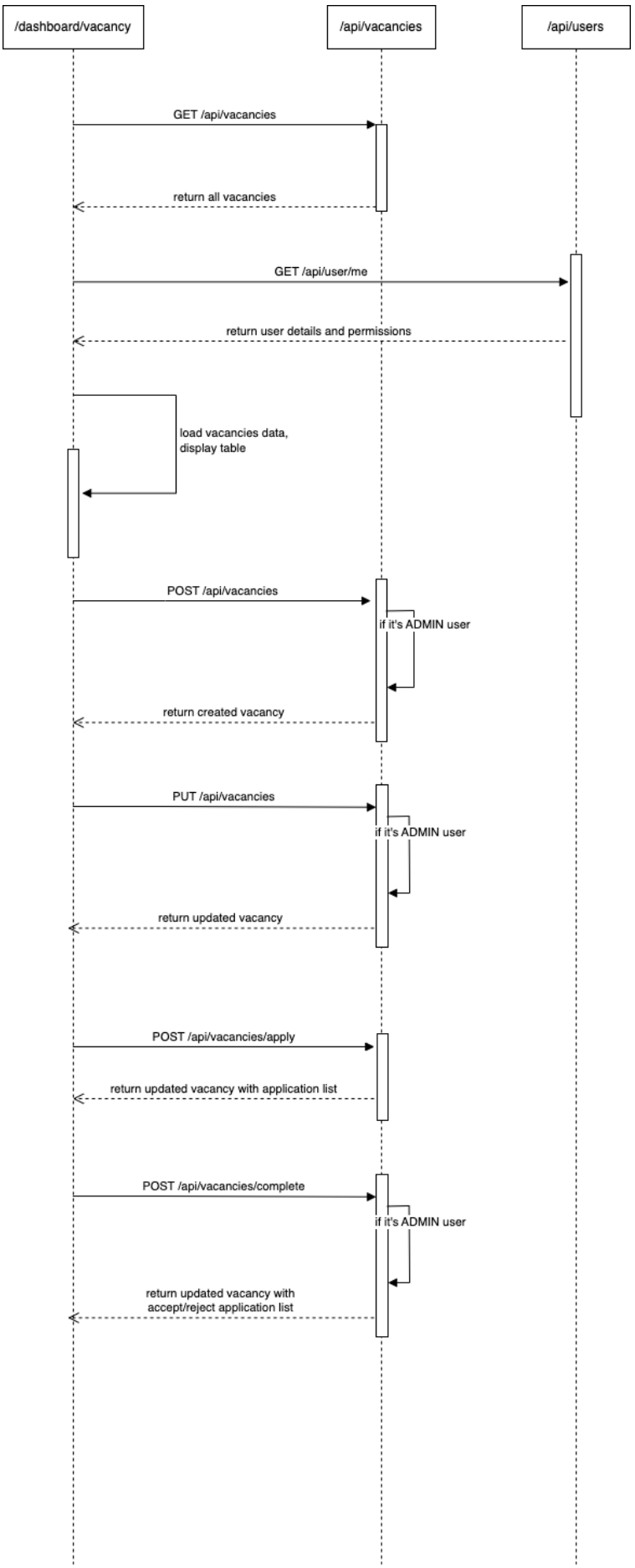
Vacancy Web is a web platform built using Java spring-boot backend and react frontend, it is the integrated solution that allows businesses to create and manage the job advertisements and also allow people to manage their profiles and apply for the position.

2.1. Application Process Flow

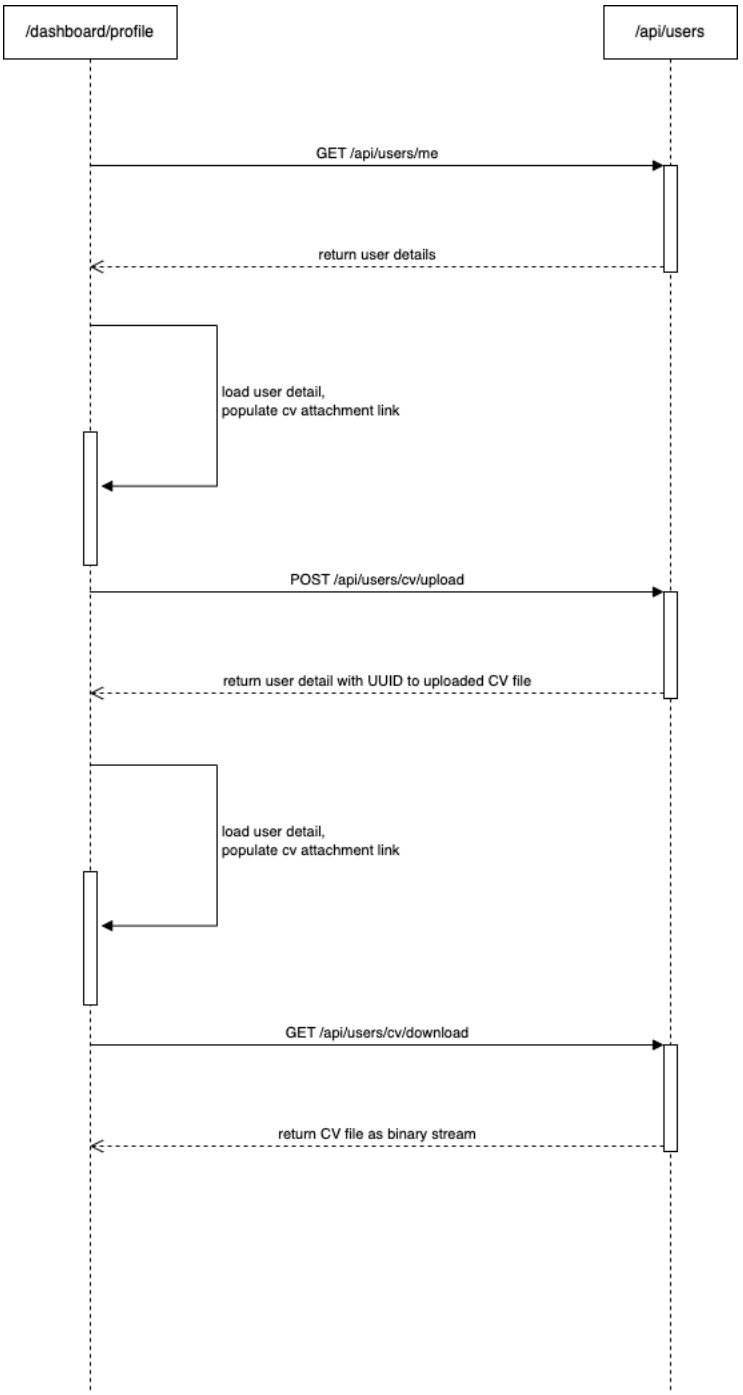
2.1.1. User Signup/SignIn flow




2.1.2. Job vacancies process flow


/dashboard/vacancy
/api/vacancies
/api/users
GET /api/vacancies
return all vacancies
GET /api/user/me
return user details and permissions
load vacancies data,
display table
POST /api/vacancies
if it's ADMIN user
return created vacancy
PUT /api/vacancies
if it's ADMIN user
return updated vacancy
POST /api/vacancies/apply
return updated vacancy with application list
POST /api/vacancies/complete
if it's ADMIN user
return updated vacancy with
accept/reject application list

### 2.1.3. User profile management flow




## 2.2. System actors

| User/Role | Frequency Of Use | Security/Access, Feature used | Additional notes |
|---|---|---|---|
| Admin user | Frequent | Create or modify job vacancies. (Only user with “ADMIN” right can perform the activities) | |

| | | | |
|---|---|---|---|
| Admin user | Frequent | Review job application, approve or reject application<br>(Only user with “ADMIN” right can perform the activities) | |
| User | Occasional | CV upload and download | |
| User | Occasional | Sign up for new id | Applicable for new user only |
| User | Frequent | Sign in | |

2.3. System dependencies and Change impacts

- This is an integrated web platform hence there is no dependencies or change impacts to other applications

3. Functional Design

3.1. System functionality

- User registration and login: Users should be able to create an account and log in to the application.
- Job search: Users should be able to search for job openings by keyword, location.
- Job listing: Users should be able to view a list of job openings that match their search criteria, including location, and a brief description of the position.
- Job details: Users should be able to view more detailed information about a specific job opening, including the job description.
- Application submission: Users should be able to submit an application for a job opening by uploading a resume and cover letter and/or completing a form with their personal and professional information.
- Job seekers can create a profile, including their personal information.
- Job seekers can search for job openings by keyword, location and description.
- Job seekers can apply for a job by submitting their resume.
- Job seekers can save job openings to apply for later.
- Job seekers can view the status of their job applications.
- Employers can post job openings, including job title, location and description.
- Employers can view and manage job applications, including sorting by candidate profile.
- Employers can search for job seekers by keyword, location, and industry.
- Employers can view job seeker's profiles, including work experience, education, and skills.
- Employers should be able to cancel job openings.
- Employers should be able to accept the candidate for the application.
- Employers should be able to reject the candidate for the application.
- Employers should be able to view the analytics of job applications.
- Employers should be able to post the company profile and branding.
- Employers should be able to download and review job seeker's resumes.
- Users should be able to update their personal profile and resume.
- Users should be able to view a list of available job openings.
- Users should be able to search for job openings by keyword, location, and/or description.

- Users should be able to withdraw their job application.
- Users should be able to apply for multiple jobs at the same time.
- Users should be able to view their submitted application and the additional documents.
- Users should be able to get the notification after successful submission of the application.
- Users should be able to get the notification if they have already apply for the position.
- Users should be able to get the notification if the position is already closed.
- Users should be able to upload additional documents like certificates and work samples.
- Users should be able to upload multiple resumes.
- Users should be able to set the primary resume.
- Users should be able to update their resume's privacy settings.
- Users should be able to set the privacy settings on the additional documents.
- Users should be able to track the status of their job applications.
- Users should be able to view their application history.

## 3.2. Uses cases

### 3.2.1. User registration function

- User story: As a new employee, I want to register in the system with my username and password so that I can view the job dashboard and apply for the available vacancy.

| UC-1 | User registration function |
|---|---|
| Primary actors | New user |
| Stakeholders and Interest | New user wants to register for a new account in the system |
| Trigger | User navigate to registration page |
| Pre-conditions | User is not existed in the system |
| Post-conditions | User is created in the system |
| Main Success Scenario | User registration successfully |
| Extension | N/A |
| Priority | High |
| Special Requirements | N/A |
| Notes | N/A |

### 3.2.2. User login function

- User story: As a user, I want to login into the system with my username and password so that I can view the job dashboard and apply for the available vacancy.

| UC-2 | User login function |
|---|---|
| Primary actors | Valid user |
| Stakeholders and Interest | User wants to login into system |

| | |
|---|---|
| Trigger | User navigate to login page |
| Pre-conditions | User is existed in the system |
| Post-conditions | User is logged in and valid token is created |
| Main Success Scenario | User login successfully |
| Extension | User is redirected to dashboard after logged in |
| Priority | High |
| Special Requirements | N/A |
| Notes | N/A |

- User story: As a logged-in user, I want to logout from the system from the dashboard so that I can end my session and securely exit the system.

| UC-3 | User logout function |
|---|---|
| Primary actors | Valid user |
| Stakeholders and Interest | User wants to login into system |
| Trigger | User navigate to login page |
| Pre-conditions | User is existed in the system |
| Post-conditions | User is logged in and valid token is created |
| Main Success Scenario | User login successfully |
| Extension | User is redirected to dashboard after logged in |
| Priority | High |
| Special Requirements | N/A |
| Notes | N/A |

3.2.3. Job vacancy function

- User story: As a user, I want to view the job dashboard with apply button so that I can apply for the available vacancy.

| UC-4 | Job dashboard display function |
|---|---|
| Primary actors | Valid user |
| Stakeholders and Interest | User wants to view the job dashboard |
| Trigger | User navigate to job dashboard |
| Pre-conditions | User is logged in |
| Post-conditions | A list of job is displayed in the tabular format |
| Main Success Scenario | User could view the list of job in job dashboard |
| Extension | The table should support pagination and sorting |

| | |
|---|---|
| | There must be a apply button for user to apply for the job |
| Priority | High |
| Special Requirements | N/A |
| Notes | N/A |

- User story: As an admin user, I want to view the job dashboard with add, edit and review buttons so that I can manage the job vacancy, the basic information should contain job description, hourly rate, working hours, type of vacancy, location.

| UC-5 | Admin user job management |
|---|---|
| Primary actors | Valid admin user |
| Stakeholders and Interest | Admin user wants to manage the job detail in from job dashboard |
| Trigger | User navigate to job dashboard |
| Pre-conditions | Job vacancy is not yet created in the system |
| Post-conditions | Job vacancy is displayed in the job dashboard |
| Main Success Scenario | User create new job vacancy with job description, hourly rate, working hours, type of vacancy, location |
| Extension | User update the same job vacancy with different job vacancy with job description, hourly rate, working hours, type of vacancy, location |
| Priority | High |
| Special Requirements | N/A |
| Notes | N/A |

- User story: As an admin user, I want to view the vacancy details after I click on the review button for a vacancy from the dashboard so that I can review the list of applications for the mentioned vacancy and decide which employee can be accepted or rejected based on their cv.

| UC-6 | Admin user job application management |
|---|---|
| Primary actors | Valid admin user |
| Stakeholders and Interest | Admin user wants to manage the job application in from job dashboard |
| Trigger | User navigate to job dashboard, view a job vacancy with a valid application |

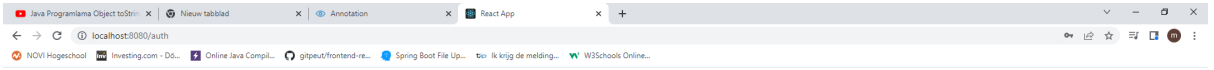
| | |
|---|---|
| Pre-conditions | Admin user is existed in the system, a valid job application is submitted by one user |
| Post-conditions | Job application is “ACCEPTED” or “REJECTED” |
| Main Success Scenario | Admin user click accept or reject to decide the final stage of the application |
| Extension | N/A |
| Priority | High |
| Special Requirements | N/A |
| Notes | N/A |

3.2.4. Profile function

- User story: As a user, I want to view my profile and upload my CV through the web interface so that I can get my profile ready for job application.

| UC-7 | User profile management function |
|---|---|
| Primary actors | Valid user |
| Stakeholders and Interest | User wants manage cv in the profile |
| Trigger | User navigate to profile page |
| Pre-conditions | User is existed in the system |
| Post-conditions | CV file is saved in the system |
| Main Success Scenario | User navigate to profile page, upload a cv |
| Extension | User navigate to profile page, click on the link to download the uploaded cv |
| Priority | High |
| Special Requirements | N/A |
| Notes | N/A |

4. Non-Functional Design
    - Application has a user-friendly interface and easy navigation.
    - Application is mobile-responsive, allowing job seekers to apply on-the-go.
    - Application uses secure servers to protect user data.
    - Application uses secure storage and management of personal and sensitive information.
    - Application has multilingual support for different countries.
5. Wireframes/Mockup screens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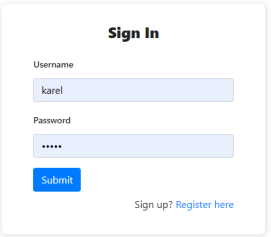
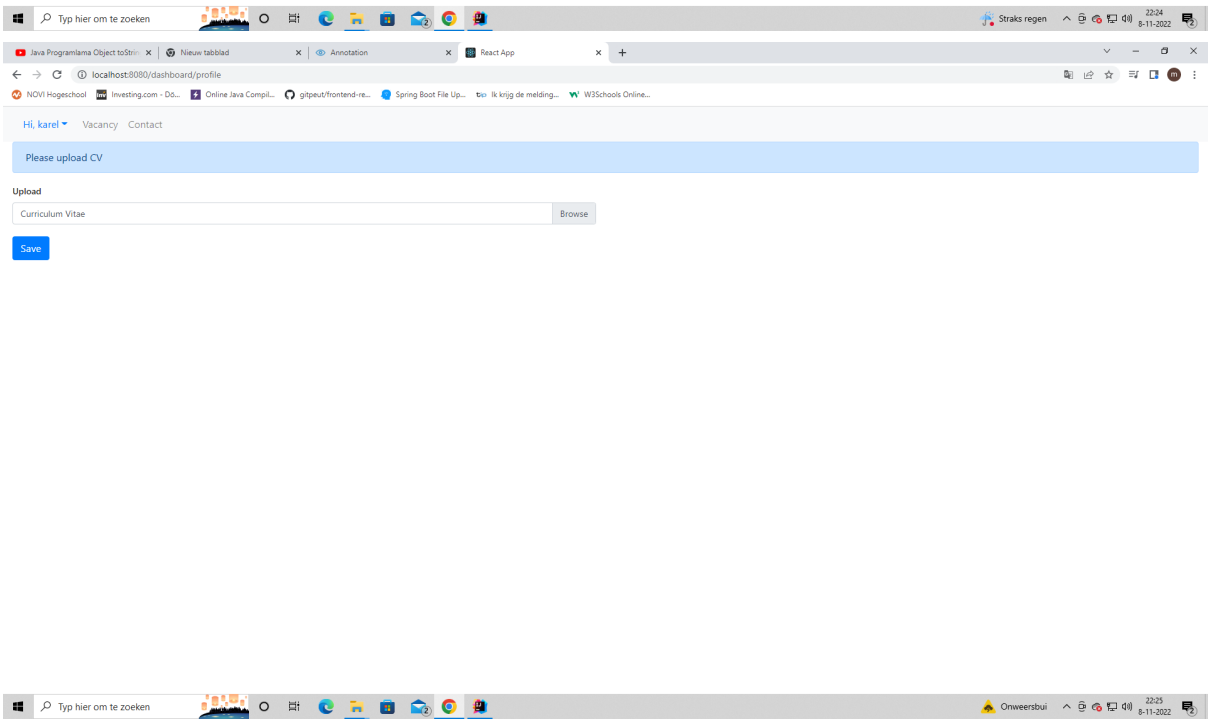

Sign In
Username
karel
Password
Submit
Sign up? Register here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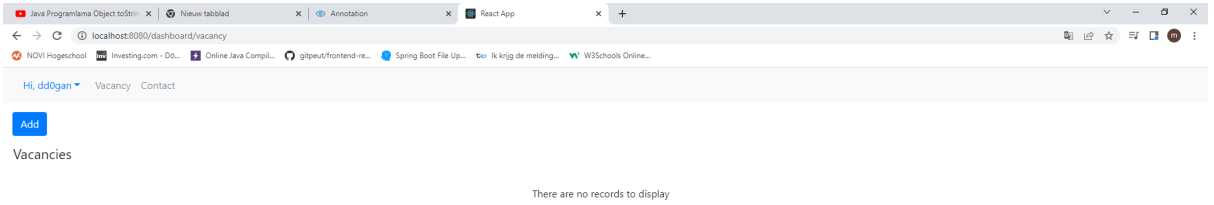
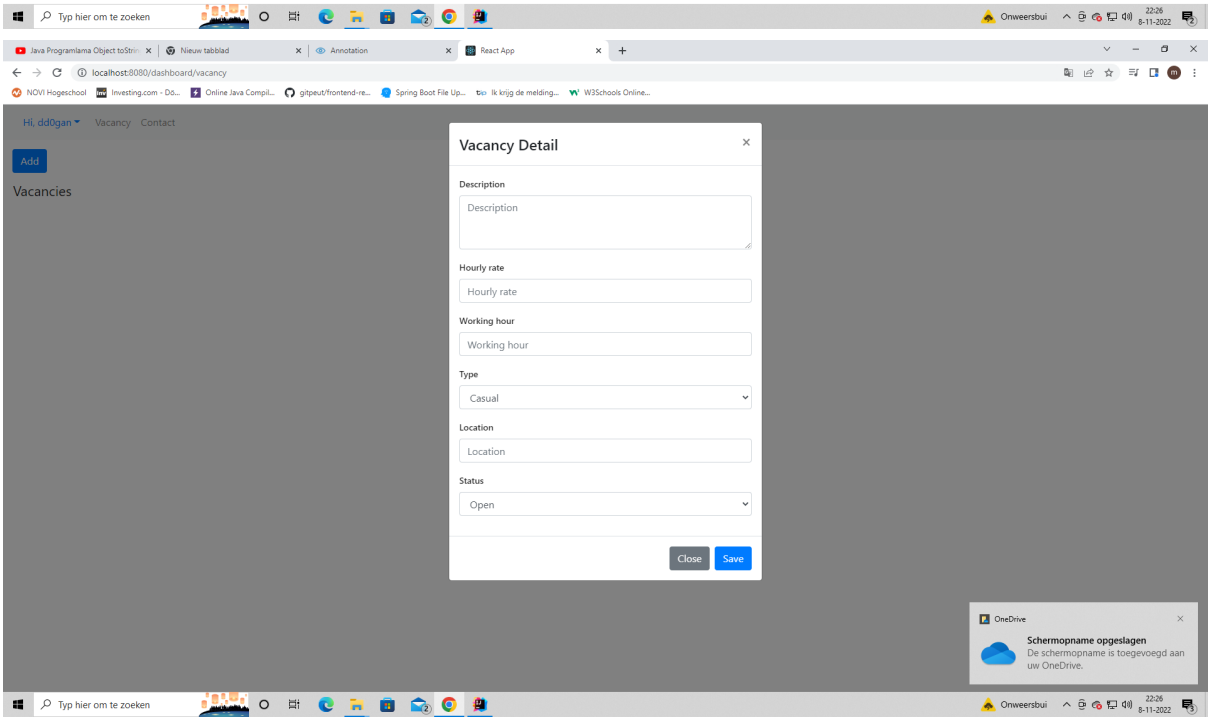

Hi, dd0gan
Vacancy
Contact
Add
Vacancies
There are no records to display


Hi, dd0gan
Vacancy
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Add
Vacancies
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Description
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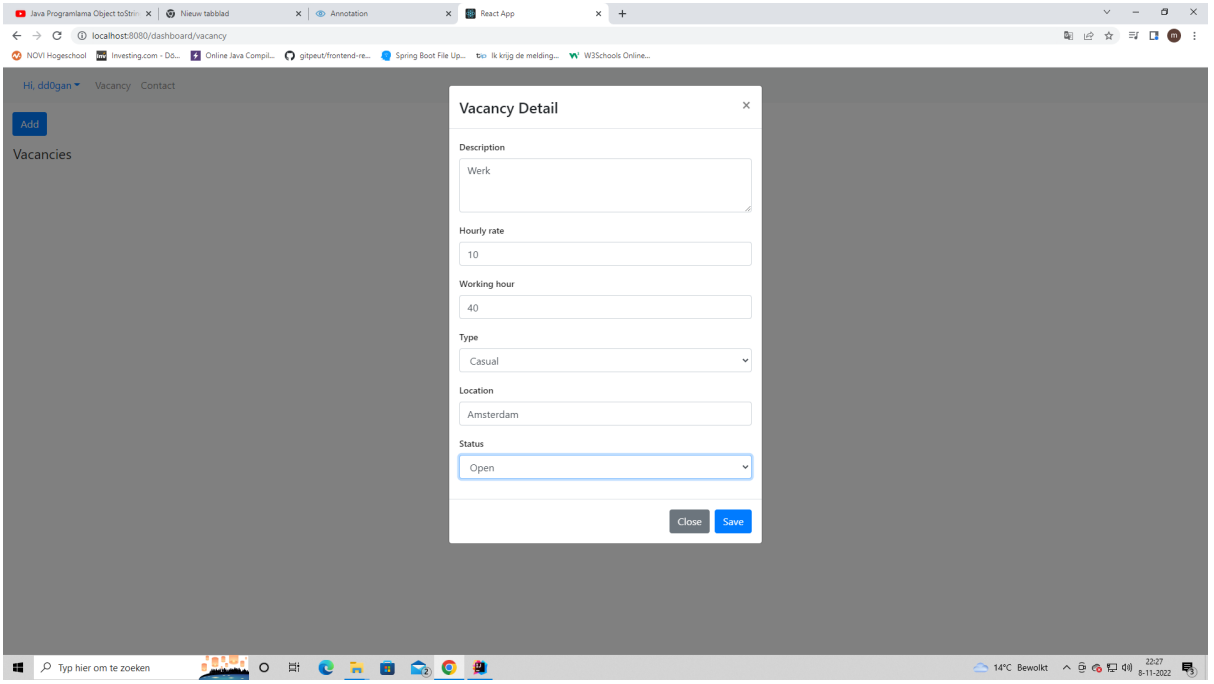
OneDrive
Schermopname opgeslagen
De schermopname is toegevoegd aan uw OneDrive.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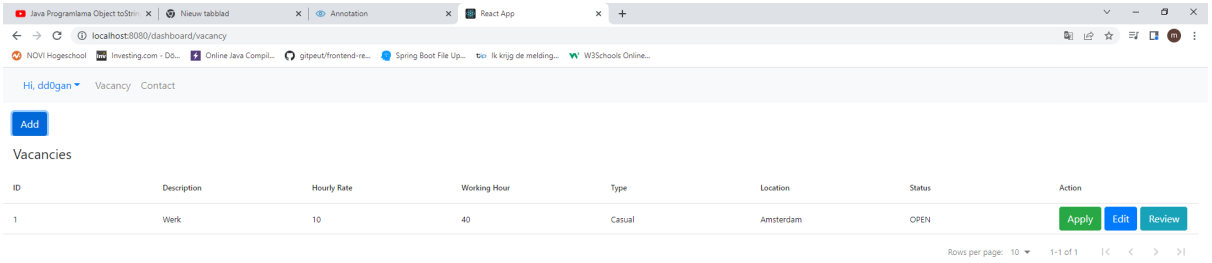


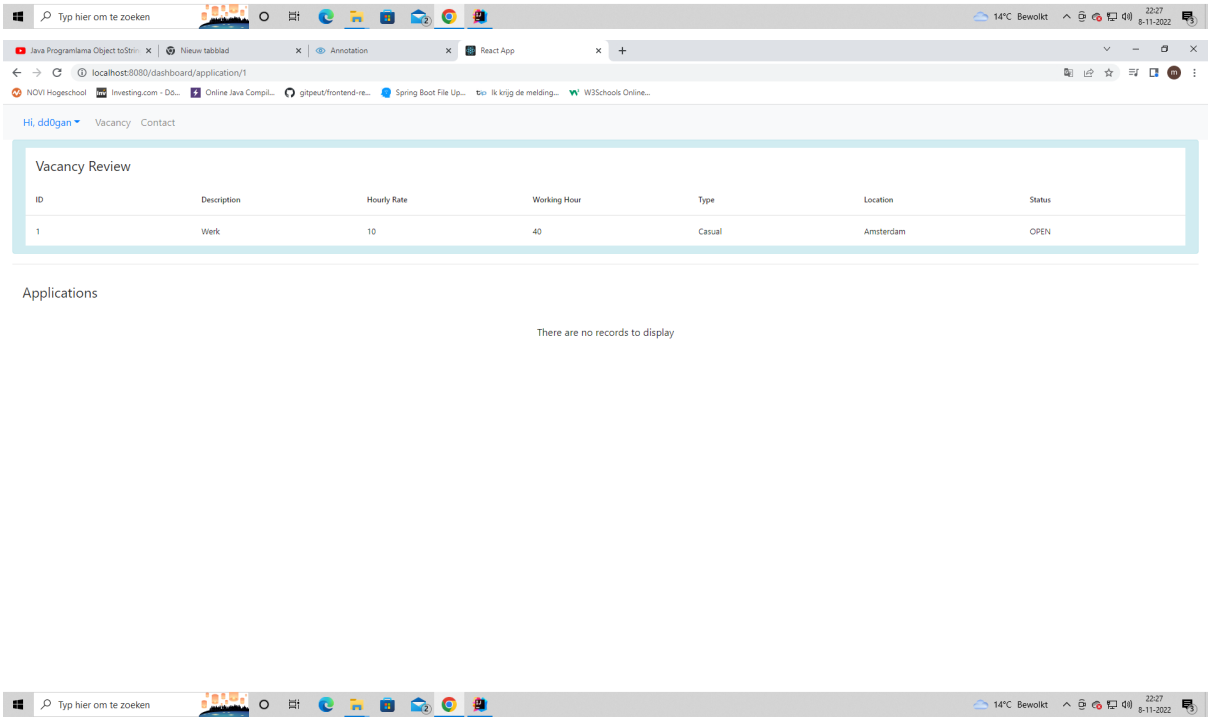


## 6. References