CHAPTER IV
IMPLEMENTATION

4.1 System Implementation

Implementation is a phase where all the analysis result and design will be upload to a hosting provider and launching the site by informing to the public about its existence. A web host is a big computer which is called server and stores our website. Heroku is one of the hosting platform where can deploy dynamic applications. The following step has been prepared to launch a website to Heroku:

1. Create a Heroku account at https://signup.heroku.com if haven’t done so. This account’s function to enabled user to use the hosting platform. We will deploy the online job seeking application using Heroku. See Fig. 4.1

![Create Heroku account window](image)

Figure 4.1 Create Heroku account window
2. Navigate to the https://dashboard.heroku.com/new-app to create a new app. Fill in the app name and region, then click the Create App button. In this case, we will use app name “W-Joobu” and region at “United States”. Although we developed the application for Japanese, in Heroku there are no Japan region. So, we use the internationally accepted region that is United States. See Fig. 4.2.

![Create New App](https://ui1045719的形象1.png)

Figure 4.2 Create new app

3. The following screen will show. This screen is the app dashboard. In dashboard page, we can see the overview of the app, add plugin in resources, deploy app via Heroku Git, GitHub, Dropbox, and Container Registry, the statistic of usage, deployment activity log, add collaborators and setting the config variable and app name. See Fig. 4.3
4. Select Connect to GitHub button and complete necessary step to link GitHub account to Heroku account. We link GitHub account to Heroku account because we develop and store the code in GitHub. See Fig. 4.4
5. A new menu will appear after connected to GitHub account. Type in app repository name and press search. A list will appear below containing repositories with matching name. Select the correct project repository and click connect. See Fig. 4.5.

![Figure 4.5 Connect project repository](image)

6. On the next screen, select GitHub branch that will be used for deploying and create Deploy Branch button. Deploy branch button is to deploy the app to the Heroku’s server. See Fig. 4.6.

![Figure 4.6 Deploy GitHub branch](image)

7. Wait for the deployment process and after completed, the following screen will show. Click on the View button to view the app. After the app is
deploy successfully to Heroku’s server, you can view the application. See Fig 4.7.

Figure 4.7 Successfully deployed

8. A new tab will be open and the app is running and useable. See Fig. 4.8.

Figure 4.8 Deployed website view
4.2 User Interface Design

4.2.1 Home View

This is the main page of the website when user navigate to the domain. From homepage, user can navigate to job based on job type. User also can see summary of job information available in the website. There are also a search section for user to search using keyword and job section that show job added to the website.

See Fig 4.9.

Figure 4.9 Home view
4.2.2 Browse Job View

This is the page where user can browse jobs information that posted in the website. The job information source is from other website and job added by private company. User can filter job by job category, job type, job area and keyword. User also can view the list with different order. User can view details of jobs by clicking job name. See Fig. 4.10.

Figure 4.10 Browse job view
4.2.3 Job Details View

This is the page where user view job with more detailed information. The information will be presented in form of a table. To apply the job, there is an Apply button that will redirect user to a apply form if the job source is from a private company. If not, user will be redirect to website where the job is retrieved. See Fig. 4.11.

Figure 4.11 Job details view
4.2.4 Apply Job View

This is the page where user can enter their personal information such as name, date of birth, education, address, telephone number, email and note to apply the job. When user submitted the information, the information will be validated and user will receive an email if the data is valid. And user will be redirected back to job details page. See Fig. 4.12.

![Apply job view](image)

Figure 4.12 Apply job view

4.2.5 Admin Login View

This is the page where site admin can login into website and manages job and company. Admin need to input correct registered credentials to login into website. If invalid credentials is entered, an error message will be shown and admin will be prompted to re-enter the correct login credentials. See Fig. 4.13.
4.2.6 Admin Dashboard View

This is the first page site admin will see after logged in. In this page, site admin will see brief summary of the website such as summary number of available jobs, summary number of companies, summary number of applicants and other site information. In this dashboard, site admin can access company search view, company details view, company update view, company add view, job search view, job details view, job update view, job add view and change password view. See Fig. 4.14.
4.2.7 Admin Company Search View

This is the page where site admin can view and search private company that is registered in the website. A list of company with general information will be shown in a table. To view the company details, site admin can click on the company name and it will be navigate to company details view. See Fig. 4.15.

![Admin company search view](image)

Figure 4.15 Admin company search view

4.2.8 Admin Company Details View

This is the page where site admin can view private company with more detailed information. The information will be presented in form of a table. Site admin can update company information by clicking on the Edit button and it will be navigate to update company page. See Fig. 4.16.

![Admin company details view](image)

Figure 4.16 Admin company details view
4.2.9 Admin Company Update View

This is the page where site admin can update private company information. When this page is loaded, the form will be populated with current private company information. Site admin can update the value of each fields except company name. In Japan, it is customary to not change the company name. Site admin can also disable the company by clicking the disabled link. See Fig. 4.17.

![Admin company update view](image)

Figure 4.17 Admin company update view

4.2.10 Admin Company Add View

This is the page where site admin can add a new private company. The form consist of following fields, such as company name, representative name, company information, address and email. When invalid information is entered, such as company name more than 80 characters, an error alert will be shown. If the data is valid, site admin will be redirected to added company details page. See Fig. 4.18.
4.2.11 Admin Job Search View

This is the page where site admin can view and search jobs that is posted in the website. A list of jobs with general information will be shown in a list. To view the job details, site admin can click on the details button and it will be navigate to job details view. See Fig. 4.19.

4.2.12 Admin Job Details View

This is the page where site admin can view job with more detailed information. The information will be presented in form of a table such as job name, job description, job location, salary, area, education, age range. Site admin can
4.2.13 Admin Job Update View

This is the page where site admin can update job information. When this page is loaded, the form will be populated with current job information. Site admin can update the value of every fields. Site admin can also hide the job from website by changing the status of the job. See Fig. 4.21.
Figure 4.21 *Admin job update view*

### 4.2.14 Admin Job Add View

This is the page where site admin can add a new job. The form consists of following fields, such as company, job name, job description, job location, job type, salary, area, education, age range, qualification and location. When invalid information is entered, an error alert will be shown. If the data is valid, site admin will be redirected to added job details page. See Fig. 4.22.
4.2.15 Admin Change Password View

This is the page where site admin can change the password of the registered credentials. The following information are needed to be provided, which are current credentials password, new password, and confirm new password. The password will be changed if the data is correct and site admin will be required to login again. See Fig. 4.23.

4.2.16 Company Login View

This is the page where private company enters valid credentials to access private company functions which is view job applicant and mark applicant. Private
company need to input correct registered credentials to login into website. If invalid credentials is entered, an error message will be shown and private company will be prompted to re-enter the correct login credentials. See Fig. 4.24.

![Company login view](image)

**Figure 4.24 Company login view**

### 4.2.17 Company Dashboard View

This is the first page private company will see after logged in. In this page, private company will see brief summary of the each job applicant summary. In dashboard, private company can navigate to search job view, job applicant view and job applicant details view. See Fig. 4.25.
4.2.18 Company Search Job View

This is the page where private company can view and search jobs that is created for this private company. A list of jobs with general information will be shown in a table. To view the applicants of this job, private company can click on the details button and it will be navigate to job applicant view. See Fig. 4.26.

4.2.19 Company Job Applicant View

This is the page where private company can see the application of applicant list for specific job. In this page, private company can view applicant information by clicking the details button of the applicant and private company will be navigated
to job applicant details view. Private company can mark the application as read by clicking the read button. In this view, we use Simple Additive Weighting method to rank the employee based on age and education level. This module is developed in backend process. See Fig. 4.27.

Figure 4.27 Company job applicant view

4.2.20 Company Job Applicant Details View

This is the page where private company can view job applicant with more detailed information such as name, sex, email, date of birth, education, identification number, address, telephone number, and note. The information will be presented in form of a table. See Fig. 4.28.
Figure 4.28 Company job applicant details view