

WEB-BASED APPLICATION FOR LOOKING VOLUNTEER USING EXTREME PROGRAMMING ALGORITHM

THESIS REPORT

UNIVERSITAS MERCRynaldi Putra Pratama 41516010033

DEPARTMENT OF INFORMATICS FACULTY OF COMPUTER SCIENCE MERCU BUANA UNIVERSITY JAKARTA 2020

https://lib.mercubuana.ac.id



WEB-BASED APPLICATION FOR LOOKING VOLUNTEER USING EXTREME PROGRAMMING ALGORITHM

THESIS REPORT

Submitted to Complete Terms Completed a Computer Bachelor Degree

UNIVERSITAS MERCUCreated By: JANA

Rynaldi Putra Pratama 41516010033

DEPARTMENT OF INFORMATICS FACULTY OF COMPUTER SCIENCE MERCU BUANA UNIVERSITY JAKARTA 2020

ORIGINALITY STATEMENT SHEET

The undersigned below:

Student Number	: 41516010033
Name	: Rynaldi Putra Pratama
Thesis Title	: Web-Based Application for Looking Volunteer Using Extreme
	Programming Algorithm

Stating that my Final Project Report is the work of my own and not plagiarism. If it is found in my Final Project report that there is an element of plagiarism, then I am ready to get academic sanctions related to it.

Jakarta, 9th July 2021



UNIVERSITAS MERCU BUANA

STATEMENT OF FINAL PROJECT PUBLICATION

As	a Mercu Buana student .	I, the	undersigned below :
	Student Name	:	Rynaldi Putra Pratama
	Student Number	:	41516010033
	Title	:	Web-Based Application for Looking Volunteer Using Extreme Programming Algorithm

By giving permission and approval of Non-exclusive Royalty Free Right to Universitas Mercu Buana for my scientific work entitled above along with available devices (if necessary).

With this Non-exclusive Royalty Free Right, Universitas Mercu Buana has right to store, transfer/format, manage in form of database, administer and publish my final project.

Furthermore, in sake of science development in Universitas Mercu Buana environment, i give the permission to Reseacher in Research Lab of Computer Science Faculty, Universitas Mercu Buana to use and develop existing result of the research of my final project for the research and publication purpose as long as my name is stated as author/creator and Copyright owner.

Hereby i made this statement in truth.

Jakarta, 9th July 2021



Rynaldi Putra Pratama

EXAMINER APPROVAL SHEET

Student ID	:	41516010033
Student Name	\$	Rynaldi Putra Pratama
Title	;	Web-Based Application for Looking Volunteer Using Extreme Programming Algorithm

This thesis has been examined and tried as one of the requirements to obtain a Bachelor's degree in the Informatics Engineering Study Program. Faculty of Computer Science, Universitas Mercu Buana.

Jakarta, 9th July 2021

Approved, (Dr. Harwikarya, MT)

EXAMINER APPROVAL SHEET

Student ID		41516010033
Student Name	1	Rynaldi Putra Pratama
Title	â-	Web-Based Application for Looking Volunteer Using Extreme Programming Algorithm

This thesis has been examined and tried as one of the requirements to obtain a Bachelor's degree in the Informatics Engineering Study Program. Faculty of Computer Science, Universitas Mercu Buana.

Jakarta, 9th July 2021

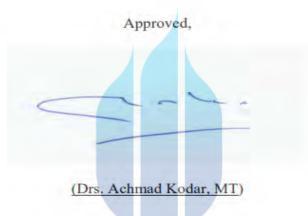
Approved.

EXAMINER APPROVAL SHEET

Student ID	4	41516010033
Student Name	:	Rynaldi Putra Pratama
Title	÷	Web-Based Application for Looking Volunteer Using Extreme Programming Algorithm

This thesis has been examined and tried as one of the requirements to obtain a Bachelor's degree in the Informatics Engineering Study Program. Faculty of Computer Science, Universitas Mercu Buana.

Jakarta, 9th July 2021



APPROVAL SHEET OF COMMITTEE

Web-Based Application for Looking Volunteer Using

: 41516010033

Rynaldi Putra Pratama

Student Number

Name

Thesis Title

	Extreme Programming Algorithm
for obtaining a	ect has been examined and defenced as one of the requirements Bachelor's degree in the Informatics Engineering Study Program, uputer Science, Mercu Buana University.
Jakarta, 9th Jul	y 2021
	To approve,
	(Dr. Leonard Geoirmanto, M.Sc) Supervisor
	Approved By:
G	917 Fr
Un	UNIVERSITAS
	ingineering Final Project DHead of Informatics Engineering
IV	Coordinator U DU Program

ABSTRAK

Nama	:	Rynaldi Putra Pratama
NIM	:	41516010033
Pembimbing TA	:	Leonard Geoirmanto
Judul	:	Web-Based Application for Looking Volunteer
		Using Extreme Programming Algorithm

Abstrak - Volunteer adalah aplikasi berbasis web yang menawarkan pekerjaan sukarela. Keadaan saat ini dalam sukarelawan adalah bahwa sukarelawan mengalami kesulitan dalam mencari sukarelawan seperti acara sosial, acara kemanusiaan, acara pameran, acara musik, atau acara festival sehingga banyak sukarelawan tidak tahu di mana menemukan acara semacam itu. Relawan berbasis web terjadi sebagai media untuk relawan dan perusahaan atau penyelenggara acara yang juga mencari tenaga kerja sukarela. Aplikasi berbasis web volunteer dikembangkan menggunakan Extreme Programming Algorithm karena Extreme Programming dapat meningkatkan daya tanggap untuk memenuhi persyaratan tergantung pada kondisi dan kasus. Dalam pengembangan Aplikasi Berbasis Web Sukarelawan, Laravel 6 digunakan untuk mengembangkan aplikasi berbasis web karena Laravel menyediakan beberapa fitur yang dapat membantu pengembang untuk mengembangkan situs web dengan mudah seperti Bundle, Eloquent ORM, Application Logic, Reverse Routing, and Class Auto Loading. Aplikasi berbasis web sukarelawan juga memudahkan perusahaan untuk menemukan sukarelawan sesuai dengan kebutuhan perusahaan. Aplikasi berbasis web relawan diuji menggunakan black box untuk menemukan kinerja terbaik untuk situs web.

Kata Kunci – Aplikasi berbasis web Volunteer, aplikasi berbasis web, extreme programming, Laravel 6, acara. E R S T A S

ABSTRACT

Name	:	Rynaldi Putra Pratama
Student Number	:	41516010033
Counsellor	:	Leonard Geoirmanto
Title	:	Web-Based Application for Looking Volunteer
		Using Extreme Programming Algorithm

Abstract – Volunteer is a Web-Based application that is offering the volunteer job. The current status quo in volunteer is that the volunteers experience difficulty in seeking a volunteering such as social event, humanity event, exhibition event, music event, or festival event so many volunteers do not know where to find those kinds of events. Volunteer web-based occurs as a media for both volunteer and company or event organizer that is also seeking the volunteer work force. Volunteer web-based application is developed using Extreme Programming Algorithm because Extreme Programming can improve the responsiveness to fulfill the requirements depending on condition and case. In development of Volunteer Web-Based Application, Laravel 6 is used for developing the web-based application because Laravel provides some features that can help developer to develop website easily such as Bundle, Eloquent ORM, Application Logic, Reverse Routing, Class Auto Loading. Volunteer web-based application also eases the company to find the volunteer according to company needs. Volunteer web-based application is tested using black box in order to find the best performance for the website.

Keywords- Volunteer web-based application, web-based application, extreme programming, Laravel 6, event.

ACKNOWLEDGEMENT

All the Praise and thank to Allah SWT who has given His love, blessings, and grace to me, so this thesis report can finish well and be completed on time. May peace be upon to Prophet Muhammad SAW who has guided us to the right path. This thesis report is written to fulfill the requirements to obtain a Bachelor degree (S1) in Informatics Department of Mercu Buana University. In this occasion, I would like to express my deepest gratitude to all who helped me in completing the writing of this thesis:

- 1. Mrs. Desi Ramayanti, S.Kom., M.T. as the Head of Informatics Department of Universitas Mercu Buana.
- 2. Mr. Leonard Geoirmanto, S.T,. M.Sc as my Thesis Supervisor
- Dr. Mujiono Sadikin, MT. as Dean of Faculty of Computer Science of Universitas Mercu Buana.
- Mr. Diky Firdaus, S.Kom, MM as the Coordinator Thesis of Informatics Department.
- 5. My parents and my family, who have given me encouragement moral or even material and prayers to me throughout my life.
- Adinda Hariyanti who has given my support and helped to solve my problem in finishing this writing thesis.
- 7. Mercu Buana English Club member who have helped to develop my ability
- 8. Classmates in Informatics 16 who always support me to finish this thesis
- 9. All of my friends who can't be mentioned one by one due to limitation

Last but not least, the author apologizes as much as possible for all the shortcomings and limitations in the writing of this thesis report. The author realizes that this thesis isn't perfect yet, therefore the author will be glad to receive any constructive criticism and recommendation to make it better. Hopefully, this thesis report can be useful for interested parties.

Jakarta, 9th July 2020

Rynaldi Putra Pratama

TABLE OF CONTENT

COVER i
COVER TITLE i
ORIGINALITY STATEMENT SHEET ii
STATEMENT OF FINAL PROJECT PUBLICATIONiii
EXAMINER APPROVAL SHEET iv
APPROVAL SHEET OF COMMITTEE vii
ABSTRAKviii
ABSTRACTix
ACKNOWLEDGEMENT
TABLE OF CONTENT xi
JOURNAL
WORKING SHEET
PART 1. LITERATUR REVIEWB
PART 2 ANALYSIS AND DEVELOPMENTD
PART 3 SOURCE CODE
PART 4 DEVELOPMENT RESULT. S. L. T. A. S
MERCU BUANA

Web-Based Application for Looking Volunteer Using Extreme Programming Algorithm

Rynaldi Putra Pratama¹, Leonard Geoirmanto²

^{1,2}Informatics Engineering, Faculty of Computer Science, Universitas Mercu

Buana

Jl. Meruya Selatan No.1, RT.4/RW.1, Meruya Sel., Kec. Kembangan, Kota Jakarta Barat, Daerah Khusus Ibukota Jakarta 11650

¹41516010033@student.mercubuana.ac.id, ²leonard@mercubuana.ac.id

Abstract – Volunteer is a Web-Based application that is offering the volunteer job. The current status quo in volunteer is that the volunteers experience difficulty in seeking a volunteering such as social event, humanity event, exhibition event, music event, or festival event so many volunteers do not know where to find those kinds of events. Volunteer web-based occurs as a media for both volunteer and company or event organizer that is also seeking the volunteer work force. Volunteer web-based application is developed using Extreme Programming Algorithm because Extreme Programming can improve the responsiveness to fulfill the requirements depending on condition and case. In development of Volunteer Web-Based Application, Laravel 6 is used for developing the web-based application because Laravel provides some features that can help developer to develop website easily such as Bundle, Eloquent ORM, Application Logic, Reverse Routing, Class Auto Loading. Volunteer web-based application is tested using black box in order to find the best performance for the website.

Keywords- Volunteer web-based application, web-based application, extreme programming, Laravel 6, event.

Abstrak - Volunteer adalah aplikasi berbasis web yang menawarkan pekerjaan sukarela. Keadaan saat ini dalam sukarelawan adalah bahwa sukarelawan mengalami kesulitan dalam mencari sukarelawan seperti acara sosial, acara kemanusiaan, acara pameran, acara musik, atau acara festival sehingga banyak sukarelawan tidak tahu di mana menemukan acara semacam itu. Relawan berbasis web terjadi sebagai media untuk relawan dan perusahaan atau penyelenggara acara yang juga mencari tenaga kerja sukarela. Aplikasi berbasis web volunteer dikembangkan menggunakan Extreme Programming Algorithm karena Extreme Programming dapat meningkatkan daya tanggap untuk memenuhi persyaratan tergantung pada kondisi dan kasus. Dalam pengembangan Aplikasi Berbasis Web Sukarelawan, Laravel 6 digunakan untuk mengembangkan aplikasi berbasis web karena Laravel menyediakan beberapa fitur yang dapat membantu pengembang untuk mengembangkan situs web dengan mudah seperti Bundle, Eloquent ORM, Application Logic, Reverse Routing, and Class Auto Loading. Aplikasi berbasis web sukarelawan juga memudahkan perusahaan untuk menemukan sukarelawan sesuai dengan kebutuhan perusahaan. Aplikasi berbasis web relawan diuji menggunakan black box untuk menemukan kinerja terbaik untuk situs web.

Kata Kunci – Aplikasi berbasis web Volunteer, aplikasi berbasis web, extreme programming, Laravel 6, acara.

I. INTRODUCTION

Volunteer is a person who kindly spends their time and their capability or ability for certain purpose, for example becoming a volunteer in humanity duty, cleanliness, environment, education, activity in an event, and social activity. In this era, there are a lot of people who want to be a volunteer because becoming a volunteer helps them to find new relations, new friends, and new experiences [1]. Some of enterprises utilize it to help succeeding their event. In this era, volunteer usually gets paid for being a committee in an event by included enterprise. Because of that issue, many people are wanting to get that opportunity as a volunteer because it can be

written in our CV. It means it also helps the volunteer itself to improve their soft skill and develop their capability in social and interaction. In the previous case, there were two events held in Indonesia called Asian Games and Asian Para Games. They gave a chance towards of all Indonesia society to join participating in those two events by seeking volunteer. There were so many participants who want to be volunteer. In other word, being a volunteer has become trending because it gives benefits towards participant such as relation, knowledge, and experience. There is also a case about event that not much people know that some event needs volunteer to be participated. It is because the company or institution does not announce and promote it well and people who need this information are not able to know where they have to look for it. By looking at that case, both society and enterprise need some application for helping society to know about event and volunteer recruitment and help community, company, or institution to promote or announce their event they will be holding.

Web programming is basically referring to the writing, marking up, and coding that is involved in Web development which includes Web contents, Web clients, and server scripting. Web programming usually uses common programming language such as HTML, CSS, PHP, and Javascript [2]. There have been many companies who use website as their media for promoting their product, their vision, giving an information, etc. By looking at that opportunity, volunteer seeker web-based will be useful for many people [3].

Web-Based Application has become a need in this era. There have been many people who use internet for helping them doing their business. As many people can see that this opportunity of making a web-based application is very beneficial for user soon. Volunteer seeker will be useful and helping the user because It helps them to find event or an activity as a volunteer. In this web-based application, we also put rating feature for volunteer, if the volunteer has a good performance in working as volunteer, they will get a star by the event organizer [4].

In this paper, we attach several materials in journals such as Information system is a bunch of steps that can be called as collecting, processing, saving, analysing, and spreading information to get a purpose. For example, a system information consists of Input data such as instruction data and output data such as report or calculation [5]. There is also in John F. Nash point of view is that system information has a combination consisting of facility, technology, human. media. procedure, and controlling that has a purpose to arrange a communication networking, certain process of routine transactions, helping management and user and providing correct basic decision choice [6].

In the previous, there were some website that develop job seeker website such as LinkedIn, Glints, and Indo Relawan. The reason why Web-Based Application for Looking Volunteer is different between other job-seeker website is because having the rating feature for the volunteer.

II. RESEARCH THEORY AND METHODOLOGY

A. THEORY METHODOLOGY

Theory Methodology consists of several aspect that has been done in the previous research. Theory and Research Methodology will help the writer in order to get the goals in developing the web-based application. The aspects are:

1) System Definition

System is a network of work from procedures that is linked, grouped together to do a command or certain purposes. System also can be called as integrated elements to get certain purposes. System is a bunch of elements that exists in the same condition. Elements that is contained in here can be an employee, production machine, and working management. If the elements cannot work well, so the purposes of the system cannot be reached [7][15].

2) Agile Definition

Agile Methodology is an approaching of developing that aims for project utilized in software development. It helps the developers for constructing a project. Agile programming is a design of change that designs programs receptively to

except and change. There are several methodologies in agile programming that includes Extreme programming, Adaptive Software Development, Dynamic System Development Method, and Scrum Programming [8].

3) Extreme Programming

Extreme programming is one of agile software development framework that has a purpose to produce higher quality software improve and to the responsiveness to fulfil condition requirements. Extreme programming refers to the discipline of software development according to values of simplicity, communication, feedback, and courage [9]. The way Extreme Programming works is carrying the whole team to finish the project in presence of simple practices with enough feedback. In developing of the project, there are several steps of using Extreme Programming such as *Planning*, *Design*, Coding, and Testing.

4) PHP

Hypertext pre-processor or PHP is general purpose programming language that is basically used for making the website. The advantage of PHP is it is an open-source and cross-platform language that is quite easy for beginner who wants to program a code and it offers features for advance programmer [10].

5) MVC

MVC (Model, View, Controller) is a model that is able to be developing website effectively and efficiently in development point of view, division of tasks, documentation, testing and maintenance. MVC is the most media alternative of information management. By using MVC, developer is allowed to develop and application divided into small cases so systematic of development process are structured well [11].

6) Laravel Framework

Laravel is one of frameworks for web application with expressive and elegant syntax and giving solutions for development by facilitating general task in most big web project. Laravel has a several features such as Bundle, Eloquent ORM, Application Logic, Reverse Routing, Class Auto Loading, etc. Laravel has MVC which is model that controls the query, View that controls the layout or interface, and Controller that controls Logic and Algorithm [12].

7) Javascript

Javascript is a scripting language that I s usually used in making website along with PHP. The function of javascript is for helping the algorithm and also enhancing the HTML pages. It is usually found in HTML code. Javascript is also a mechanism to add logic and interactivity to static browser. The advantages of javascript are as follows:

- a. Speed: javascript is so fast because the function code can be run instead of having the contact to the server and wait for the reply by the server.
- b. Simplicity: Javascript is a programming language that is easy to learn and read by the programming
- c. Versatility: Javascript is easy to use and compatible with another programming language such as PHP. Javascript also can be implemented in any web
- d. Serverload: Javascript reduces the demand on the web.

8) Mysql

MySql in an Oracle open source RDBMS (Relation Database Management System) based on SQL (Structured Query Language). MySql usually executes in the virtual in all platforms such as linux, unix, or windows. The advantages of MySql is as follows:

- 1. Data Security
- 2. On-Demand Scalability
- 3. High Performance
- 4. Reduces the total cost of ownership9) HTML

Hypertext Markup Language (HTML) is the major language that is often used for displaying web page on the internet. All of the web pages that have been seen by many users are made by HTML to display text or image. The advantages of HTML are it allows users to get or view multiple documents in a single web page [13].

10) Hash Password

Hash Password is also can be called as One-Way Function that may allow the system to change the string input efficiently into string out with the static which is call Hash Value [14].

B. RESEARCH METHODOLOGY

Research methodology that is used in this development is descriptive method to describe a condition. The process for designing the application and the system in this development is using Extreme Programming Algorithm which is one of the software development method. Extreme Programming has several aspects which are **Planning**, **Designing**, **Coding**, and **Testing**.

1. Planning

Planning in this writing is defined as feasibility. In this planning, writer needs to analyse a system needs where collecting the data and doing some research. There will be several things to do such as analysing development needs, identification of the problem, and deciding the schedule when development starts and when development ends.

2. Designing

In this section of Extreme Programming, there will be activities such making a model for the system, making an architecture model, and there will also be designing database

3. Coding

In this part, there will be implementation of the model that has been considered and made in designing part using programming language. The programming language that is going to be used in this development is PHP and Javascript as the main programming language. In creating the database, MySql is going to be used to create a management system

4. Testing

After *Planning*, *Designing*, and *Coding* has been done, there will be step called *Testing* to test the system in order to know the problems or bugs that is going to happen in the system while the system is being run.

Testing section also will let the developer know and able to troubleshoot and fix the system

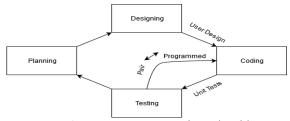


Image 1. Extreme Programming Algorithm

III.RESULT AND DISCUSSION A. Designing the Web-Based Application for Looking Volunteer

Designing the Web-Based Application for Looking Volunteer is visualized with Flowchart and Use Case Diagram.

1. The use case diagram for Web-Based Application for Looking Volunteer

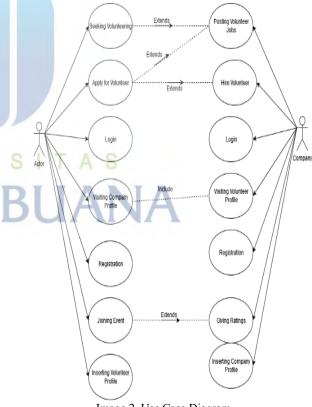
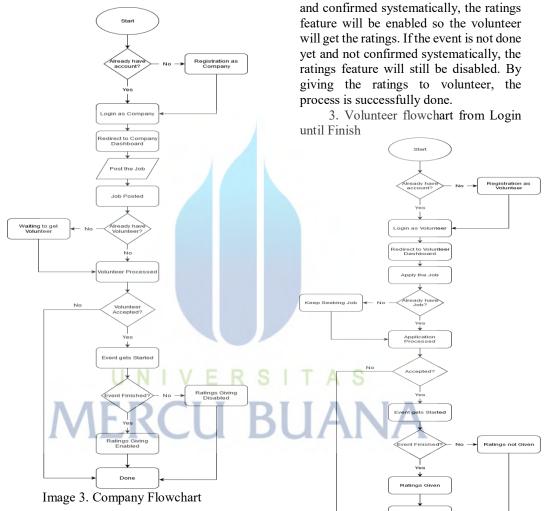


Image 2. Use Case Diagram

The Image 2 is a Use Case Diagram where there are two main roles in this

application which are Volunteer and Company. Company is able to post jobs, hire volunteer, give ratings and visit the volunteer profile. Meanwhile, Volunteer is able to seek for jobs, apply the jobs, visit the company profile, and join the event

2. Company Flowchart



The Image 3 is a whole application system with company authentication which describes the designing web-based application for looking volunteer from login until it is done.

The process starts from company logging into the dashboard. If the company has not had an account, the system will redirect to registration form as a company and be able to login as a company Image 4. Volunteer Flowchart

The image 4 is a whole application system with volunteer authentication which describes the designing web-based application for looking volunteer from login until it is done.

The process starts from volunteer logging into the dashboard. If the volunteer has not had an account, the

Universitas Mercu Buana

If the company is already logged in,

Company has an authority to decide

company is able to post the job that is

needed by filling several information

about the event. When the company has already had volunteers, company can start

that the event is done. If the event is done

the event.

https://lib.mercubuana.ac.id

system will redirect the volunteer to registration form as a volunteer and be able to login as a volunteer.

B. Implementation of Web-Based Application for Looking Volunteer Using Extreme Programming Algorithm

The development of Web-Based Application for Looking Volunteer Using Extreme Programming Algorithm uses PHP programming language as a Back-End, Javascript and Jquery as a system front-end, Bootstrap as a layout front-end, Laravel as a Framework, and Mysql as a Database

1. Main Dashboard Homepage



Image 5. Main Dashboard Homepage

This image 5 is the Main Dashboard Homepage where all users can access without any authentications. There is some menu here such as Login, Register, and Post the Job that user can choose.



Popular Categories

E [®]	32	e	A
Liaison Officer	Traffic Officer	Protocol Assistant	NGC Assistan
100	1792	1.021	(670)
9.	I <u>製</u>	A	101
Servers	Cook Helpers	Kitchen Helpers	Logistic
443	5,409	291	329

Image 6. Job Categories

This image 6 is the Job Categories where user will be faced with several jobs such Liaison Officer, Logistic, Cook Helper, NOC Assistant, Servers, Kitchen Helpers, Traffic Officer, and Protocol Officer.

Voluntie	F FOR CANDINATES FOR UMPLOYEES ~ CONT	act thain registre + fost new ind
Recent	Jobs	Featured Jobs Previous
mage	Laison Officer Bill delora bung kamo – O Jakarta fusat - MTRp. 200000	Liaison Officer
teninger.	Logistic IIII v785 Abath 🛛 Boger (182 Rp. 198000)	Willications burns karren Wildcarta konat Life Rp. 200000-
	Administration	Nganter nganter orang ada

Image 7. Recent Jobs

The image 7 is Recent Jobs where there are several details about the job needed by the company. Recent Jobs give information about the location, city, job description, and fee. User also can see others recent jobs by clicking "Show More Job".

4. Registration



Image 8. Registration

In order to explore more about the website, user needs to register by clicking "Register" on the top to do registration. If user has already had an account whether as a volunteer or company, user can directly head to "Login".

5. Choose Registration



REGISTER AS COMPANY

REGISTER AS VOLUNTIER

Image 9. Choose Registration

When the user has clicked the "Register" link, user will be redirected into page where user needs to choose whether user wants to register as a company or register as volunteer.

6. Registration as Company

Register		
Company Name	Gojek Indonesia	
E-Mail Address	gojekindonesia@gojek.co.id	
Password		
Confirm Password		

Image 10. Registration as Company

The image 10 is the Registration as Company where the user has clicked "Register as Company" meaning that user wants to be a company. The registration form has several fields that user needs to input some information such as Company Name, Email, and Password. registered in the website. Login page has two input fields which are Email Address and Password. User only inputs an email and password to login into website.

8. Company Dashboard Homepage



Image 12. Company Dashboard Homepage

The Image 12 is Company Dashboard Homepage where the user as a company has been logged in into the website. The indication the user has logged in is that the name on dashboard has changed into the user name. In this case, the company name is "Gojek Indonesia".

R CANDIDATES FOR EMPLOYEES ~ CONTACT BACK

9. Company Post a Job

Voluntier

ail, and Passwo	UNIV	ERS	F A S	Post a Job	
7. Redirect to	Login Page	IR	AN	Α	
1 4 1	LICC		Company		Contact Info Address 203 Faler St. Mountain View, San
Company Login			Event Name		Prankisko, California, USA Phone =1.232.3235.324
-			eg. Asian Para Games 2018		Email Address youremail@domain.com
E-Mail Address	gojekindonesia(ĝigojek.co.id		Event Description		ala hak
Password					More Info Lovern ipsum dolor sit amet, consecteur adipiscing effi, Ipse ad iure porro.
	Remember Me		Image 13. Cor	npany Post a Jo	b
			-		

The Image 13 is a Company Post a Job where the company is able to post a job. There 11 fields that are needed to be fulfilled by the company. Those are Company Name, Event Name, Event Description, Start Event, End Event, Job Desk, Job Description, City, Location, Falicity, and Fee. The Company Universitas Mercu Buana

Image	11.	Redirect to) Login	Page
inage		recan eet te	, no Sun	1 450

The image 11 is the Redirect to Login Page where the user has successfully

https://lib.mercubuana.ac.id

Name input field is disabled and cannot be editted because the input field is auto-

Featured Jobs

there is some information for the volunteer before they submit the submission such as Event Name, Event Description, Start Event, End Event, Job Desk, Job Description, City, Location, Facility, and Fee.

12. Submitted Job List

	Hi. I'm Mr. Deye.
	This is my profile
	Edit Profile
Submis	ion
Submis	ion Gen Mma 2020

The image 16 is Submitted Job List. After the volunteer has applied the job, volunteer will be redirected into the profile page. In profile page, there is Submission Section where all of the submissions that have been submitted by volunteer will be displayed in the Submission section for volunteer submission list.

FOR CANDIDATE

Submission List

FOR FMPLOYEES - CONTACT BACK

13. Submission Details

Event Name Gover Mana 2020 Event Description

Image 17. Submission Details

The image 17 is Submission Details where the volunteer can be able to see the details of the submission that has been submitted.

Universitas Mercu Buana

Image 14. Posted Job

generated from company authentication.

10. Posted Job

Recent Jobs

The image 14 is a Posted Job. When the company has already posted the job, the posted job will be directly displayed to recent jobs in Volunteer user interface. There is some information such as Job Desk, Location, City, Job Description, and Fee.

11. Submissio	ON
Z	Submission
Event Name	IERCU
Grijel Maria 2015	.20 Gale II Manzari Van San Fannin, Calizzan Uak
Event Description Opie Maina ada veier talente ywg di awe feedaan tapada outomer goet	Paran +? 02 202 Cits Brail Address Gazenalist Graumers
Shell Farri	Mate Info

Image 15. Submission

The image 15 is a Submission where the volunteer is able to apply the job in this page. In the image 14, volunteer can directly click the recent jobs that volunteer needs and will be redirected to this page. In this page, 15. Submission Process Page

Details Submissie

Company

Voluntier Name	Contact Info Address
July Postana	202 Falls på Krountbilt Vijek start Transford Unit Dervid Artal
Event Name	Phone
Lomba Skripsi	Email Address
Job Desk	

14. Company Submission Process

Image 18. Company Submission Process

Submission Process where the submission data is shown on Volunteer Submission in Company user interface. In order to process the Volunteer Submission, company is able to directly click the name that company needs to

18

is

image

The

Volunteer Submission

process.

Image 19. Submission Process Page

The image 19 is Submission Process Page where the company can directly process the submission by clicking process button in the form. After submitting, company will be redirected into Company Dashboard.

16. Volunteer Submission List

olunte	er Submission	Details Submission Prev/Ne
(mage	Aldy Pratama III Protocol Assistant 9 Gejel Mania 2020	Aldy Pratama
Image	Aldy Pratama Infinite Contraction Contractions	III Traffic Officer PLomba Skripsi

Image 20. Volunteer Submission List

The image 20 is Volunteer Submission List where the previous data will be listed in Volunteer Submission. The submission that has just been processed will have "On Process" status which means the company has already opened the submission

	Edit Profile
Subr	nission
inog	Coper Maria 2020 More constitution of elementations Theory (2020)

The Image 21 is Volunteer Profile where there is a submission list that volunteer has applied to the company. The status on volunteer also has changed as the company processed the submission

Voluntier	FOR CAROCONTES : FOR DAPLOVEES - CONTACT : I
Voluntier Name Atty frainse Event Name comit tabger	Contact links Anteine Und Mail J. Marcines where the financial contact and the Plane ~1221 2021 Solid Teach Address part wardightermaliture
Job Desk	More info The are creat

Image 21. Accepted Process

The image 21 is Accepted Process where the company is able to process the submission whether company accept the volunteer or reject the volunteer. Company needs to choose one of the decisions.

	Aldy Pratama		Aldy Pratama	
Intege	IIII Protocol Assistant 🤷 Gojeli Mania 2020	Done	Done	
	Aldy Pratama	Accepted	I Protocol Assestant	
Image	Illi Traffic Officer: Lomba Skripsi	erretuen	@ Onjek Mania 2020	

Image 22. Volunteer Submission List

The image 22 is Volunteer Submission List where the company can see the displayed data that the status has changed into "Accepted" which means the status on the volunteer user interface also changed as the company. In order process further, company can directly click the name when the company's event has finished holding to give the "Done" status to volunteer as the image 23 shown.

Voluntier Name	Contact Info Address
Aldy Svatama	200 Puke St. Misseksen View Sam Francisco, California, Atak
Event Name	Phone +1 342 3245 324
Lomba Skripsi	Email Address yourmail@domain.com
Job Desk	
Traffic Officer	More Info
	Thus is an invest

Image 23. Done Process

18. Rating Process

	Aldy Pratama	Done	Aldy Pratama	
mage	📾 Protocol Assistant 🕴 Goyek telanis 2020	LICIE	Dene	
mage	Aldy Pratama	1	ill Protocol Acceptant	
møge	🏙 Traffic Officer 🔍 Londos Skrips	Doze	Goyes Warva 2020	

Image 24. Rating Process

The image 25 is Rating Process where the company can give the rating as the feedback. The rating can be done by the company if the volunteer status has reached "Done". In order to give volunteer rating, company can directly click the name and will be directed to rating page as shown on Image 25.

Aldy Pratama				
Event Name				
Lomba Skripsi				
Job Desk				
Traffic Officer				
Give Ratings = Bac	Not Bad	Average	Great	Awesome

Image 25. Rating Giving

There are five kinds of ratings which are Bad, Not bad, Average, Great, and Awesome that company can choose one the rating.

19. The End of Process

ék:	x +		
			N 🗆 🗱 🗄
		Top Work Porthilo Contast Back	
		Edit Profile	
	\wedge		
	T		
	Submission		
	Gán Miris 2023	Binderster With server	
	Levita Stips		
		lapsielse' 1997q; 158001	
	-		

Image 26. The End of Process

The image 26 is the last process where the status on submission list in Volunteer user interface has changed to "Done" as the company changed the status. Volunteer also got Rating Star from the company as feedback

C. Testing

The testing in this development using Extreme Programming is black box which tests the system functionally. The testing was done in every user's page and the result is

1.	Testing Guest Dashboard		
	Testing in this session is a test when		
	the user wants to see the jobs and		
	categories. The result is supposed to		
	show the Job and Categories Data.		
	The last result is success.		

2. Register Testing

Testing in this session is a test when the user wants to register. The result is supposed to show the choice form whether register as company or register as volunteer before the user directly registers.

3. Register as Company Testing

Testing in this session is a test when the user wants to register as a company. The result is supposed to show the Company Register form that consists Company Name input field, Email input field, Password input field, Confirm Password input field.

- 4. Redirect after Register Testing Testing in this session is a test when the user has already registered. The result is supposed to redirect to Company Login Form.
 - Redirect to Company Login Form that consists of Email input field and Password.
 - Result: Success
- 5. Login Testing as Company Testing in this session is a test when the user wants to login as company. The result is supposed to redirect to Company Dashboard.
 - Redirect to Company Dashboard that consists post a job.
 - Result: Success
- 6. Register as Volunteer Testing Testing in this session is a test when the user wants to register as volunteer. The result is supposed to redirect to Volunteer Register form that consists Company Name input field, Email input field, Password input field, Confirm Password input field.
- 7. Redirect after Register Testing Testing in this session is a test when the user has already registered. The result is supposed to redirect to Volunteer Login Form.
- Login Testing as Volunteer Testing in this session is a test when the user wants to login as volunteer. The result is supposed to redirect to Volunteer Dashboard.
- 9. Company Dashboard Testing

Testing in this session is a test when the company wants to post the job. The result is supposed to redirect to Post Job Page and show several input fields

- 10. Input Data Post Job Testing Testing in this session is a test when the company submit the job. The result is supposed to be successfully submitted.
- 11. Post Job Data Testing Testing in this session is a test when the post job data is displayed in volunteer recent jobs. The result is supposed to show the job and the details
- 12. Submit a Job as Volunteer Testing Testing in this session is a test when the volunteer wants to apply the job by directly clicking the job in recent jobs. The result is supposed to redirect to Submission Form Page and able to submit the job.

 Redirect to Volunteer Profile after Submitting Testing Testing in this session is a test when the volunteer has successfully submitted the job. The result is supposed to redirect to Volunteer Profile and Submission data is

14. Company Change Status From "Submitting" to "On Process" Testing

shown.

Testing in this session is a test when the company wants to process the volunteer submission. The result is supposed to be successfully submitted.

15. Status has changed in Company Submission List and Volunteer Submission List Testing

> Testing in this session is a test when the status has already changed or not in both company and volunteer. The result supposed to show the data and the status changed after "Submitted".

16. Company Change Status From "On Process" to "Accepted" or "Not Accepted" Testing

> Testing in this session is a test when the company wants to decide whether the volunteer is accepted or not accepted. The result is supposed to be able to successfully store the data and change the status.

- 17. Status has changed in Company Submission List and Volunteer Submission List Testing Testing in this session is a test when the status has already changed or not in both company and volunteer. The result supposed to show the data and the status changed after "On
- Company Change Status From "On Process" to "Accepted" or "Not Accepted" Testing

Testing in this session is a test when the company wants to decide whether the event has finished and needed to change the status into "Done". The result is supposed to be able to successfully store the data and change the status

19. Ratings Giving Testing

Process".

Testing in this session is a test where the company is able to give ratings to volunteer only in the "Done" status. The result is supposed to be able to give rating and show the rating in volunteer profile

No	Testing	Result
1	Testing Guest Dashboard	Successful
2	Register Testing	Successful
3	Register as Company Testing	Successful
4	Redirect after Register Testing	Successful
5	Login Testing as Company	Successful
6	Register as Volunteer Testing	Successful

	7	Redirect after Register Testing	Successful	
	8	Login Testing as Volunteer	Successful	
	9	Company Dashboard Testing	Successful	
	10	Input Data Post Job	Successful	
	11	Testing Post Job Data	Successful	
	12	Testing Submit a Job as	Successful	
		Volunteer Testing Redirect to Profile		
	13	after Submitting Testing	Successful	
	14	Company Change Status From "Submitting" to "On Process" Testing	Successful	
	15	Status has changed in Company Submission List and Volunteer Submission List Testing	Successful	
	16	Company Change Status From "On Process" to "Accepted" or "Not Accepted" Testing	Successful	
	17 T	Status has changed in Company Submission List and Volunteer Submission List Testing	Successful	
5	18	Company Change Status From "On Process" to "Accepted" or "Not Accepted" Testing	Successful	
	19	Ratings Giving Testing	Successful	

IV.CONCLUSION

A. Conclusion

From the testing of Web-Based Application for Looking a Volunteer, writer can conclude that:

1. Web-Based Application for Looking Volunteer is designed and developed to solve the

volunteer problem of finding volunteering event.

- 2. By using Volunteer web-based application, volunteer can find job that volunteer needs and company or event organizer can offer the job to volunteer according to company needs.
- 3. The result of using black box in this Web-Based Application for Looking Volunteer is "Success" which means all of the functions in the website are working correctly.

REFERENCES

- Papadakis, K., Griffin, T., & Frater, J. (2004). Understanding Volunteers' Motivations. Symposium - Proceedings of the 2004 Northeastern Recreation Research Symposium, 321.
- [2] Sucianti Saiful. A Ambarita. (2017). Pembuatan Aplikasi Web Pencarian Jasa Pembantu Rumah Tangga (Prt) Dikota Ternate Web. *Indonesian Journal on Information System*, 2 no. 2(September 2017), 77–90.
- [3] H, H, Wachyu. (2012). Web-Based Service Optimization with JSON-RPC platform in Java and PHP
- [4] Almeida, F., & Monteiro, J. (2017). The role of responsive design in web development. Webology, 14(2), 48–65.
- [5] Naskah, I. (2012). Memanfaatkan Web Service S Untuk Layanan Informasi. 1–19.
- [6] Job-seekers, H., & Hall, R. E. (2015). Measuring Job-Finding Rates and Matching Efficiency with. 10(1), 1–47.
- [7] Mukherjee, S., & Prakash, J. et al. (2015). International Journal of Computer Science and Mobile Computing Android Application Development & Its Security. *International Journal of Computer Science and Mobile Computing*, 4(3), 714–719. Retrieved from www.ijcsmc.com
- [8] Fowler, E. M. (2005). *design*. 14–16.
- [9] Lindstrom, L., & Jeffries, R. (2004). Extreme programming and

agile software development methodologies. *Information Systems Management*, 21(3), 41– 52.

- [10] Das, R., dan Saikia, L. P. (2016). NComparison of Procedural PHP with Codeigniter and Laravel Frameworko Title. International Journal of Current Trends in Engineering & Research (IJCTER), 2(6), 42–48. Retrieved from https://www.ijcter.com/papers/volu me-2/issue-6/comparison-ofprocedural-php-with-codeigniterand-laravel-framework.pdf
- [11] Riana, D., Sanjaya, R., & Kalsoem, O. (2018). Sistem Informasi Manajemen Laboratorium Patologi Anatomi Menggunakan Model MVC Berbasis Laravel Framework. Konferensi Nasional Sistem Informasi, 237–242.
- [12] Alfat, L., Triwiyatno, A., & Isnanto, R. R. (2016). Sentinel web: Implementation of Laravel framework in web-based temperature and humidity monitoring system. *ICITACEE* 2015 - 2nd International Conference on Information Technology, Computer, and Electrical Engineering: Green Technology Strengthening in Information Technology, Electrical and Computer Engineering Implementation, Proceedings, 46– 51.
- [13] Carolina, I. Supriyatna, A. Penerapan Metode Extreme Programming Dalam Perancangan Aplikasi Perhitungan Kuota Sks Mengajar Dosen. Jurnal Khatulistiwa Informatika, 3(1), 106–113.
- [14] N. D. Anggoro, C. Suhery, dan I. Ruslianto, "Penerapan Alogritma Knapsack dan Fungsi Hash Pada Sistem E-Voting (Studi Kasus: Pemilihan Raya Mahasiswa Universitas Tanjungpura Pontianak)," Jurnal Komputer dan Aplikasi, univ. Tanjung Pura, Pontianak, vol. 07, no. 01, pp. 85-96, 2019
- [15] N, Andi. W, S, Retno. Informatika. Pengelolaan Presensi Dan Gaji Asisten Lab Berbasis Web Di Fasilkom Universitas Mercu Buana.

WORKING SHEET

Seeking volunteer is usually done by the company by spreading the information through social media and telling by telling. The information of the event is even only given to specific person who is trusted by the company acquaintance. Those issues result the problem that not all people are able to get the information of the job or the event that needs volunteer help. People who are willing to have a volunteer experience are also unable to be a volunteer because of those problems that are occurring.

From the explanation above, web-based application for looking volunteer is a better way and solution to solve the problem that is occurring the current status quo while the technology keeps developed by providing the system that may give the job or event information for the volunteer.

In this web-based development, writer uses Extreme Programming Algorithm for the development and Laravel 6 Framework as the system development. Company will offer the job and the volunteer will apply the job then company needs to give the volunteer ratings.

In order to give a benefit for the volunteer user, writer implements ratings system that may help the volunteer user to be trusted legally by company or event orginazer. To prevent the parties who want to ratings to volunteer illegaly, writer adds the system that allows the company only enable to give the ratings for volunteer in specific status in the event. In other words, the criminal deed will reduce.

UNIVERSITAS MERCU BUANA