



**HELPER WEB TOOLS FOR AFFILIATE AND
DROPSHIP USING LARAVEL**

UNDERGRADUATE THESIS

**Submitted as one of the requirements to obtain
Sarjana Komputer (S.Kom.)**

By:

STIVEN

001202000002

**FACULTY OF COMPUTING
INFORMATICS STUDY PROGRAM**

CIKARANG

June, 2023

HELPER WEB TOOLS FOR AFFILIATE AND DROPSHIP

USING LARAVEL

By

Stiven

001202000002

Approved:



Abdul Ghofir, S.Kom., M.Kom.

Final Project Advisor



Cutifa Safitri, M.Sc, Ph.D.

Program Head of Information
Technology



Rila Mandala, Ph.D

Dean of Faculty of Computing

STATEMENT OF ORIGINALITY

In my capacity as an active student of President University and as the author of the thesis/final project/business plan stated below:

Name : Stiven
Student ID number : 001202000002
Study Program : Information Technology
Faculty : Computing

I hereby declare that my thesis/final project/business plan entitled "**HELPER WEB TOOLS FOR AFFILIATE AND DROPSHIP USING LARAVEL**" is to the best of my knowledge and belief, an original piece of work based on sound academic principles. If there is any plagiarism detected in this thesis/final project/business plan, I am willing to be personally responsible for the consequences of these acts of plagiarism and will accept the sanctions against these acts in accordance with the rules and policies of President University.

I also declare that this work, either in whole or in part, has not been submitted to another university to obtain a degree.

Cikarang, 20 June 2023



(.....)

Stiven

SCIENTIFIC PUBLICATION APPROVAL FOR ACADEMIC INTEREST

As an academic community member of the President's University, I, the undersigned:

Name : Stiven

Student ID number : 001202000002

Study program : Informatics

for the purpose of development of science and technology, certify, and approve to give President University a non-exclusive royalty-free right upon my final report with the title: **“HELPER WEB TOOLS FOR AFFILIATE AND DROPSHIP USING LARAVEL”**

With this non-exclusive royalty-free right, President University is entitled to converse, to convert, to manage in a database, to maintain, and to publish my final report. There are to be done with the obligation from President University to mention my name as the copyright owner of my final report.

This statement I made in truth.

Cikarang, 20 June 2023



(.....)

Stiven

ADVISOR APPROVAL FOR JOURNAL/INSTITUTION'S REPOSITORY

As an academic community member of the President's University, I, the undersigned:

Name : Abdul Ghofir, S.Kom., M.Kom.

ID number : 20020900020

Study program : Information Technology

Faculty : Computing

declare that following thesis :

Title of final project : **Helper Web Tools for Affiliate and Dropship Using Laravel**

Final Project author : Stiven

Student ID number : 001202000002

will be published in journal / institution's repository / proceeding / unublish

Cikarang,


(.....)

Abdul Ghofir, S.Kom., M.Kom.

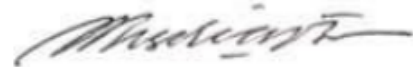
PANEL OF EXAMINER APPROVAL

The Panel of Examiners declare that the undergraduate thesis entitled **Helper Web Tools Affiliate and Dropship Using Laravel** that was submitted by **Stiven** majoring in **Informatics** from the **Faculty of Computer Science** was assessed and approved to have passed the Oral Examination on **02/06/2023**.

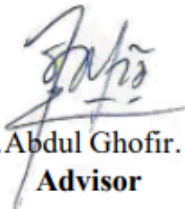
Panel of Examiner



.....Hasanul Fahmi.....
Examiner I



.....Rusdianto Roestam.....
Examiner II



.....Abdul Ghofir.....
Advisor

SIMILARITY INDEX REPORT

Turnitin Helper Web Tools for Affiliate and Dropship Using Laravel

ORIGINALITY REPORT

15%

SIMILARITY INDEX

11%

INTERNET SOURCES

1%

PUBLICATIONS

10%

STUDENT PAPERS

PRIMARY SOURCES

1

Submitted to President University

Student Paper

6%

2

repository.president.ac.id

Internet Source

5%

3

Submitted to Midlands State University

Student Paper

<1%

4

Submitted to Curtin University of Technology

Student Paper

<1%

5

Submitted to National College of Ireland

Student Paper

<1%

6

Submitted to UNITEC Institute of Technology

Student Paper

<1%

7

Submitted to Universiti Tenaga Nasional

Student Paper

<1%

8

Submitted to City University of Hong Kong

Student Paper

<1%

9

Submitted to Edith Cowan University

Student Paper

<1%

Stats

Average Perplexity Score: 129.290

A document's perplexity is a measurement of the randomness of the text

Burstiness Score: 222.495

A document's burstiness is a measurement of the variation in perplexity

Your sentence with the highest perplexity, "*Final Project Advisor Cutifa Safitri, M.Sc, Ph.D.*", has a perplexity of: 1224

ABSTRACT

The working environment has gone through a major transformation over the last decades, followed by inflation which led to higher cost of living. Numerous individuals have turned to side hustle jobs, such as affiliate marketing programs, dropshipping, to generate additional income. An affiliate program is an agreement in which a business compensates an individual, known as an affiliate, with a commission for each purchase made by a customer through the unique affiliate link. While dropshipping is when someone sells goods on social media without having to stock the goods. Many big eCommerce provides this side hustle opportunity such as Shopee, Tokopedia, TikTok, and more.

This project is aimed to provide help for affiliates and dropshippers. It was created by using Laravel which is one of the widely known PHP web application frameworks. Several eCommerce limits the number of addresses that could be registered in each account which makes it harder for dropshipper to list all customer's address. While affiliates require a user-friendly interface to conveniently share affiliate links to the potential customers. This project will come in handy to handle such issues.

DEDICATION

I would like to express my dedication for this project to my family, friends, and lecturer, who have consistently support upon the completion of this project.

ACKNOWLEDGEMENTS

I would like to extend my gratitude to God for his mercy, good health, guidance, and blessings, which have enabled me to successfully complete this final project. I also want to express my sincere appreciation to people who have always supports me:

1. My beloved family who always support me financially and mentally as well as giving me very valuable advice.
2. My final project advisor, Mr. Abdul Ghofir, for the patience and guiding me throughout this final project.
3. All President University lecturer especially the lecturers in Computing Science for their hard work in lecturing and provide me with invaluable knowledge and support.
4. All my friends who kindly supported me finishing this final project.

TABLE OF CONTENTS

ABSTRACT	v
DEDICATION	1
ACKNOWLEDGEMENTS	2
TABLE OF CONTENTS	vii
LIST OF FIGURES	8
LIST OF TABLES	13
CHAPTER I INTRODUCTION	Error! Bookmark not defined.
1.1 Background	Error! Bookmark not defined.
1.2 Problem Statement	Error! Bookmark not defined.
1.3 Thesis Objective	Error! Bookmark not defined.
1.4 Scope and Limitation	Error! Bookmark not defined.
1.5 Methodology	Error! Bookmark not defined.
1.6 Final Project Outline	Error! Bookmark not defined.
CHAPTER II LITERATURE REVIEW	Error! Bookmark not defined.
2.1 Model View Controller	Error! Bookmark not defined.
2.2 PHP.....	Error! Bookmark not defined.
2.3 Laravel.....	Error! Bookmark not defined.
2.4 Visual Studio Code.....	Error! Bookmark not defined.
2.5 Bootstrap	Error! Bookmark not defined.

2.6	Related Works	Error! Bookmark not defined.
2.6.1	Linktree.....	Error! Bookmark not defined.
2.6.2	Shopeee.....	Error! Bookmark not defined.
2.7	Comparison Table	Error! Bookmark not defined.

CHAPTER III SYSTEM ANALYSIS.....Error! Bookmark not defined.

3.1	System Overview	Error! Bookmark not defined.
3.2	Software and Hardware Requirement	Error! Bookmark not defined.
3.2.1	Software Requirement	Error! Bookmark not defined.
3.2.2	Hardware Requirement.....	Error! Bookmark not defined.
3.3	Functional Analysis.....	Error! Bookmark not defined.
3.4	Use Case Diagram.....	Error! Bookmark not defined.
3.5	Use Case Narrative.....	Error! Bookmark not defined.
3.6	Swim Lane Diagram.....	Error! Bookmark not defined.
3.6.1	Register.....	Error! Bookmark not defined.
3.6.2	Login.....	Error! Bookmark not defined.
3.6.3	Logout.....	Error! Bookmark not defined.
3.6.4	Account Settings.....	Error! Bookmark not defined.
3.6.5	Customers Data.....	Error! Bookmark not defined.
3.6.6	Add New Customer Data.....	Error! Bookmark not defined.
3.6.7	Edit Customer Data	Error! Bookmark not defined.
3.6.8	Delete Customer Data.....	Error! Bookmark not defined.

3.6.9	Add Link.....	Error! Bookmark not defined.
3.6.10	Edit Link.....	Error! Bookmark not defined.
3.6.11	Delete Link.....	Error! Bookmark not defined.
3.6.12	LinkTree Preview.....	Error! Bookmark not defined.
3.6.13	Custom LinkTree.....	Error! Bookmark not defined.
3.6.14	Add Items.....	Error! Bookmark not defined.
3.6.15	Edit Items.....	Error! Bookmark not defined.
3.6.16	Delete Items.....	Error! Bookmark not defined.

CHAPTER IV SYSTEM DESIGN..... **Error! Bookmark not defined.**

4.1	User Interface Design.....	Error! Bookmark not defined.
4.1.1	Login Page.....	Error! Bookmark not defined.
4.1.2	Register Page.....	Error! Bookmark not defined.
4.1.3	Customers Data.....	Error! Bookmark not defined.
4.1.4	Add Customer Page.....	Error! Bookmark not defined.
4.1.5	Edit Customer Page.....	Error! Bookmark not defined.
4.1.6	Account Settings Page.....	Error! Bookmark not defined.
4.1.7	Dropship Items Page.....	Error! Bookmark not defined.
4.1.8	Category Master Page.....	Error! Bookmark not defined.
4.1.9	Links Page.....	Error! Bookmark not defined.
4.1.10	LinkTree Preview Page.....	Error! Bookmark not defined.
4.1.11	Custom LinkTree Page.....	Error! Bookmark not defined.

4.2	Database Design.....	Error! Bookmark not defined.
4.2.1	Entity Relationship Diagram	Error! Bookmark not defined.
4.2.2	Database Table	Error! Bookmark not defined.
CHAPTER V SYSTEM IMPLEMENTATION		Error! Bookmark not defined.
5.1	User Interface Implementation.....	Error! Bookmark not defined.
5.1.1	Login Page	Error! Bookmark not defined.
5.1.2	Register Page	Error! Bookmark not defined.
5.1.3	Customers Data Page.....	Error! Bookmark not defined.
5.1.4	Add and Edit Customer Page.....	Error! Bookmark not defined.
5.1.5	Account Settings.....	Error! Bookmark not defined.
5.1.6	Dropship Items and Category Master Page.....	Error! Bookmark not defined.
5.1.7	Links Page	Error! Bookmark not defined.
5.1.8	LinkTree Preview Page	Error! Bookmark not defined.
5.1.9	Custom LinkTree Page	Error! Bookmark not defined.
5.2	System Implementation.....	Error! Bookmark not defined.
5.2.1	Database Migration.....	Error! Bookmark not defined.
5.2.2	Dependencies	Error! Bookmark not defined.
5.2.3	Registration Process	Error! Bookmark not defined.
5.2.4	Route and Middleware.....	Error! Bookmark not defined.
5.2.5	Login Process	Error! Bookmark not defined.
5.2.6	Database Model	Error! Bookmark not defined.

5.2.7	CRUD	Error! Bookmark not defined.
5.2.8	DataTable.....	Error! Bookmark not defined.
5.2.9	Update Unique Data	Error! Bookmark not defined.
5.2.10	Add, Update and Delete Image.....	Error! Bookmark not defined.

CHAPTER VI SYSTEM TESTINGError! Bookmark not defined.

6.1	Testing Environment	Error! Bookmark not defined.
6.1.1	Hardware	Error! Bookmark not defined.
6.1.2	Software.....	Error! Bookmark not defined.
6.2	Testing Scenario	Error! Bookmark not defined.

CHAPTER VII CONCLUSION AND FUTURE WORKSError! Bookmark not defined.

7.1	Conclusion.....	Error! Bookmark not defined.
7.2	Future Works.....	Error! Bookmark not defined.

REFERENCE.....xix

LIST OF FIGURES

Figure 1.1 RAD Cycle	3
Figure 2.1 Model View Controller	8
Figure 2.2 PHP Programming Language	9
Figure 2.3 Laravel	10
Figure 2.4 Visual Studio Code	12
Figure 2.5 LinkTree – Links Page	13
Figure 2.6 LinkTree – Appearance Page	13
Figure 2.7 Shopee (1)	14
Figure 2.8 Shopee (2)	14
Figure 3.1 Use Case Diagram of the App	19
Figure 3.2 Register Swimlane Diagram	43
Figure 3.3 Login Swimlane Diagram	45
Figure 3.4 Logout Swimlane Diagram	46
Figure 3.5 Account Setting Swimlane Diagram	47
Figure 3.6 Customers Data Swimlane Diagram	48
Figure 3.7 Add New Customer Swimlane Diagram	49
Figure 3.8 Edit Customer Swimlane Diagram	50
Figure 3.9 Delete Customer Swimlane Diagram	51
Figure 3.10 Add Link Swimlane Diagram	52
Figure 3.11 Download Result Swimlane Diagram	53
Figure 3.12 Delete Link Swimlane Diagram	54
Figure 3.13 LinkTree Preview Swimlane Diagram	55

Figure 3.14 Custom LinkTree Swimlane Diagram	56
Figure 3.15 Add Dropship Items Swimlane Diagram.....	57
Figure 3.16 Edit Items Swimlane Diagram.....	58
Figure 3.17 Delete Items Swimlane Diagram.....	59
Figure 4.1 Login Page User Interface	60
Figure 4.2 Register Page User Interface	61
Figure 4.3 Customers Data Page User Interface (1)	62
Figure 4.4 Customers Data Page User Interface (2)	62
Figure 4.5 Add Customers Page User Interface.....	63
Figure 4.6 Edit Page User Interface	64
Figure 4.7 Account Settings Page User Interface	65
Figure 4.8 Dropship Item User Interface	65
Figure 4.9 Category Master Page User Interface.....	66
Figure 4.10 Links Page User Interface	67
Figure 4.11 LinkTree Preview User Interface.....	68
Figure 4.12 Custom LinkTree User Interface	69
Figure 4.13 Entity Relationship Diagram	70
Figure 5.1 Login Page User Interface	76
Figure 5.2 Header Component Code	76
Figure 5.3 Footer Component Code.....	77
Figure 5.4 Logo Component Code.....	77
Figure 5.5 Register Link Page Component Code	77
Figure 5.6 Input Text Component Code.....	78
Figure 5.7 Login Button Component Code.....	78

Figure 5.8 Register Page User Interface (1).....	79
Figure 5.9 Register Page User Interface (2).....	79
Figure 5.10 Password Input Component Code	80
Figure 5.11 Submit Button Component Code.....	80
Figure 5.12 Customers Data Page User Interface (1)	81
Figure 5.13 Customers Data Page User Interface (2)	81
Figure 5.14 Aside Menu Component Code.....	82
Figure 5.15 Navigation Bar Component Code	83
Figure 5.16 Profile Icon User Interface	83
Figure 5.17 Profile Icon Component Code	84
Figure 5.18 Tool Bar Component	84
Figure 5.19 Add Customer Button Component Code	85
Figure 5.20 Action Dropdown Menu Component Code	85
Figure 5.21 No Customer Data Page Component Code	86
Figure 5.22 Search Component Code	86
Figure 5.23 Card Component Code	87
Figure 5.24 Add Customer Page User Interface	88
Figure 5.25 Edit Customer Page User Interface	88
Figure 5.26 First Dropdown Component Code.....	89
Figure 5.27 Second Dropdown Component Code	89
Figure 5.28 JQuery AJAX Code	90
Figure 5.29 Account Settings User Interface	91
Figure 5.30 Text Input Component Code.....	91
Figure 5.31 Image Input Component Code.....	92

Figure 5.32 Date Input Component Code	93
Figure 5.33 Dropship Items User Interface.....	93
Figure 5.34 Adding Items User Interface.....	94
Figure 5.35 Category Master User Interface.....	94
Figure 5.36 Table Component Code	95
Figure 5.37 JQuery DataTable Code.....	95
Figure 5.38 Links Page User Interface	96
Figure 5.39 Table Component Code	97
Figure 5.40 LinkTree Preview Page User Interface.....	97
Figure 5.41 Profile Component Code	98
Figure 5.42 Link Component Code	99
Figure 5.43 Custom LinkTree Page User Interface (1).....	99
Figure 5.44 Custom LinkTree Page User Interface (2).....	100
Figure 5.45 Color Input Component Code	100
Figure 5.46 Iframe Component Code	101
Figure 5.47 Migration Up Function Code.....	102
Figure 5.48 Migration Down Function Code.....	102
Figure 5.49 Migration Insert Initial Data Code	102
Figure 5.50 Dependencies Code	103
Figure 5.51 Registration Process Code	104
Figure 5.52 Route and Middleware Code	105
Figure 5.53 Login Process Code.....	106
Figure 5.54 Model Code	107
Figure 5.55 Add New Dropship Item Code	108

Figure 5.56 Get Customer Data Code.....	109
Figure 5.57 Get Edit Category Code.....	110
Figure 5.58 Update Category Code	110
Figure 5.59 Delete Link Code.....	111
Figure 5.60 DataTable Code	112
Figure 5.61 Update Unique Data Code.....	112
Figure 5.62 Add, Update and Delete Image Code	113

LIST OF TABLES

Table 2.1 Features Comparison Table	15
Table 3.1 Personal Computer Hardware Specification	17
Table 3.2 Functional Analysis Requirements.....	18
Table 3.3 Register Use Case Narrative	20
Table 3.4 Login Use Case Narrative	21
Table 3.5 View Profile Use Case Narrative	22
Table 3.6 Logout Use Case Narrative	23
Table 3.7 Account Settings Use Case Narrative	24
Table 3.8 Customers Data Use Case Narrative	25
Table 3.9 Add New Customer Use Case Narrative.....	26
Table 3.10 Edit Customer Use Case Narrative	27
Table 3.11 Delete Customer Use Case Narrative.....	28
Table 3.12 Links Use Case Narrative	29
Table 3.13 Add Link Use Case Narrative	30
Table 3.14 Edit Link Use Case Narrative	31
Table 3.15 Delete Link Use Case Narrative.....	32
Table 3.16 LinkTree Preview Use Case Narrative.....	33
Table 3.17 Custom LinkTree Use Case Narrative	34
Table 3.18 Dropship Items Use Case Narrative.....	35
Table 3.19 Add New Item Use Case Narrative	36
Table 3.20 Edit Item Use Case Narrative.....	37
Table 3.21 Delete Item Use Case Narrative.....	38

Table 3.22 Category Master Use Case Narrative.....	39
Table 3.23 Add New Category Use Case Narrative.....	39
Table 3.24 Edit Category Use Case Narrative	40
Table 3.25 Delete Item Use Case Narrative.....	41
Table 4.1 Users Table.....	71
Table 4.2 Customers Table.....	71
Table 4.3 Categories Table.....	72
Table 4.4 Items Table	72
Table 4.5 Datas Table.....	72
Table 4.6 Links Table.....	73
Table 4.7 Visits Table.....	73
Table 4.8 Customs Table	73
Table 6.1 Testing Environment Hardware Table.....	114
Table 6.2 Testing Environment Software Table.....	114
Table 6.3 Testing Scenario Table	115