

**HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY**

# **GRADUATION THESIS**

**Study research and create a saas-based search engine  
for e-commerce websites.**

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# ABSTRACT

In the era of industrialization and modernization, the purchase and sale of products Online shopping is becoming a new culture with consumers getting used to online shopping habits. In the development of e-commerce, Shopify platform has come a long way in dominating its market. The demand for using Shopify is growing especially high during the Covid-19 pandemic.

Shopify takes the lead in building a system of partners to jointly develop interfaces, applications, and support powerful commerce stores. E-commerce website provides advanced extension features to allow online transactions such as: multi-layer catalog, shopping cart, favorite page, price comparison, cross-selling, ordering, payment, marketing campaign, management Manage customers, manage collections, etc.

With practical needs from using e-commerce products of companies and businesses, I realized that some necessary features need to be added. of an e-commerce product and that product can also be taken to commerce to help the store owner use the product according to the store's needs. This is also the reason why I chose the topic: "Designing a search page application on Shopify e-commerce platform".

## TABLE OF CONTENTS

<b>CHAPTER 1. INTRODUCTION.....</b>	<b>1</b>
1.1 Motivation .....	1
1.2 Objectives and scope of the graduation thesis .....	1
1.3 Research Objectives and Conceptual Framework .....	2
1.4 Contributions .....	2
1.5 Organization of Thesis .....	2
<b>CHAPTER 2. LITERATURE REVIEW .....</b>	<b>3</b>
2.1 E-commerce.....	3
2.1.1 What is E-commerce .....	3
2.1.2 Type of E-commerce .....	3
2.1.3 Advantages and disadvantages of e-commerce .....	4
2.1.4 E-commerce applications.....	5
2.2 Some typical successful e-commerce models in the world and Vietnam.....	6
2.3 SaaS and Shopify.....	6
2.3.1 SaaS Overview .....	6
2.3.2 Advantages of SaaS .....	7
2.3.3 Shopify overview .....	8
2.3.4 Advantages and disadvantages of Shopify .....	8
2.4 Technology employed and theoretical foundation.....	8
2.4.1 PHP language .....	8
2.4.2 Advantage of PHP language.....	9
2.4.3 Laravel Overview.....	10
2.4.4 Advantage of Laravel.....	10
2.4.5 vuejs language .....	10

2.5 Usecase diagram.....	11
2.5.1 General use case diagram.....	11
2.5.2 Detailed use case diagram for "Install and Uninstall app" .....	12
2.5.3 Detailed use case diagram for "Search setting" .....	13
2.5.4 Detailed use case diagram for "Search" .....	14
2.5.5 Business process .....	15
2.6 Non-functional requirements .....	15
<b>CHAPTER 3. METHODOLOGY .....</b>	<b>17</b>
3.1 Front-end technologies.....	17
3.1.1 Vuejs .....	17
3.1.2 TypeScript.....	18
3.2 Back-end technologies.....	18
3.2.1 Laravel.....	18
3.2.2 API.....	21
3.2.3 PostgreSQL .....	23
<b>CHAPTER 4. THEORETICAL ANALYSIS .....</b>	<b>25</b>
4.1 Architecture design.....	25
4.1.1 Software architecture selection .....	25
4.1.2 Overall design.....	27
4.1.3 Detailed package design .....	30
4.1.4 User interface design.....	31
4.1.5 The sequence diagrams.....	37
4.2 Web Building .....	39
4.2.1 Libraries and Tools.....	39
4.2.2 Achievement.....	40
4.3 Testing.....	40

4.4 Deployment .....	41
<b>CHAPTER 5. NUMERICAL RESULTS .....</b>	<b>42</b>
5.1 Increase the efficiency of shopify's search page.....	42
5.1.1 Problem .....	42
5.1.2 Requirement .....	42
5.1.3 Approach .....	42
5.1.4 Difficulties encountered.....	42
5.1.5 Final solution and result.....	43
5.2 Manage settings for the search page.....	44
5.2.1 Problem .....	44
5.2.2 Requirement .....	44
5.2.3 Approach .....	44
5.2.4 Difficulties encountered.....	44
5.2.5 Final solution and result.....	45
<b>CHAPTER 6. CONCLUSIONS .....</b>	<b>48</b>
6.1 Summary .....	48
6.2 Suggestion for Future Works .....	48
<b>REFERENCE .....</b>	<b>50</b>



## LIST OF FIGURES

Figure 2.1	Use case diagram for "General use case diagram" . . . . .	11
Figure 2.2	Use case diagram for "Install and Uninstall app" . . . . .	12
Figure 2.3	Use case diagram for "Search setting" . . . . .	13
Figure 2.4	Use case diagram for "Search" . . . . .	14
Figure 2.5	Business process . . . . .	15
Figure 3.1	HTML DOM structure . . . . .	17
Figure 3.2	Virtual DOM structure . . . . .	18
Figure 3.3	MVC structure . . . . .	19
Figure 3.4	how the API functions . . . . .	22
Figure 3.5	Restful API . . . . .	23
Figure 3.6	PostgreSQL . . . . .	23
Figure 4.1	Shop Manager activity flow . . . . .	25
Figure 4.2	User activity flow . . . . .	26
Figure 4.3	Package diagram for server side . . . . .	28
Figure 4.4	Package diagram for merchant view . . . . .	29
Figure 4.5	Package diagram for user view . . . . .	30
Figure 4.6	Detail package diagram . . . . .	31
Figure 4.7	login for merchant function . . . . .	32
Figure 4.8	Design of setting page . . . . .	33
Figure 4.9	Detail term page . . . . .	34
Figure 4.10	Detail save Save setting page . . . . .	35
Figure 4.11	Design of search page . . . . .	35
Figure 4.12	Design of save button . . . . .	36
Figure 4.13	Design of database . . . . .	37
Figure 4.14	Save setting sequence diagrams . . . . .	38
Figure 4.15	Check term sequence diagrams . . . . .	39
Figure 5.1	Search page . . . . .	44
Figure 5.2	Login page from URL . . . . .	45
Figure 5.3	Setting page . . . . .	46
Figure 5.4	Term page . . . . .	46
Figure 5.5	Term page . . . . .	47



## LIST OF TABLES

Table 4.1	List of models" . . . . .	26
Table 4.2	Back-end API . . . . .	27
Table 4.3	List of used libraries and tools . . . . .	40
Table 4.4	Statistical information about the application . . . . .	40
Table 4.5	List of used libraries and tools . . . . .	41

## LIST OF ABBREVIATIONS

Abbreviation	Definition
2FA	Two Factor Authentication
API	Application Programming Interface
App, app	Application, in the scope of this thesis means Android Application
CRUD	Create - Read - Update - Delete
HTML	HyperText Markup Language
NAVIS	International Center for R&D on Satellite Navigation Technology in South East Asia
ORM	Object Relational Mapping
OTP	One time password
RFID	Radio Frequency Identification
SSMS	SQL Server Management Studio
UI	User interface