



FPT UNIVERSITY



Capstone Project Document

Build An Application To Help Tourists Find And Camp In Farmstays

GSP23SE20	
Group Members	Nguyễn Đăng Hải Anh – SE151389 Lê Danh Trọng – SE151359 Lê Đoàn Mỹ Nhụng – SE151295
Supervisor	Nguyễn Trí Thông Trần Thanh Nguyên
Capstone Project code	SP23SE30

– Ho Chi Minh, January 2023 –

Table of Contents

Table of Tables	10
Table of Figures.....	11
Acknowledgement	15
Definition and Acronyms	16
I. Project Introduction.....	17
1 Overview.....	17
1.1 Project Information.....	17
1.2 Project Team	17
1.2.1 Supervisor	17
1.2.2 Team Members.....	17
2. Product Background	17
3. Existing System.....	18
3.1 Booking.....	18
3.2 FarmstayUSA	18
4. Business Opportunity.....	18
5. Software Product Vision	18
6. Project Scope & Limitations.....	18
6.1 Major Features	18
6.1.1 Web application for Admin.....	18
6.1.2 Web application for Host	19
6.1.3 Mobile application for Customer	19
6.2 Limitations & Exclusions	19
6.2.1 Limitations	19
6.2.2 Exclusions	20
II. Project Management Plan.....	20
1. Overview.....	20
1.1 Scope & Estimation	20
1.2 Project Objectives.....	24
1.3 Project Risk.....	24
2. Management Approach	25
2.1 Project Process	25

2.2 Quality Management	25
2.3 Training Plan.....	25
3. Project Deliverables	26
4. Responsibility Assignments	26
5. Project Communication	27
5.1 Communication Plan	27
5.2 External Interface.....	27
5.2.1 FU Contacts	27
6. Configuration Management	27
6.1 Document Management	28
6.2 Source Code Management	28
6.3 Tools & Infrastructures.....	28
III. Software Requirement Specification	28
1. Product Overview	28
2. User Requirements	29
2.1 Actor	29
2.2 Use cases	29
2.2.1 Diagram(s).....	29
2.2.2 Descriptions.....	32
3. Functional Requirements	35
3.1 System Functional Overview.....	35
3.1.1 Screen Flow	35
3.1.2 Screen Description.....	38
3.1.3 Screen Authorization.....	41
3.1.4 Non-Screen Function	43
3.1.5 Entity Relationship Diagram	43
3.2 Web Application For Admin.....	45
3.2.1 <Admin> Login.....	45
3.2.2 <Admin> View Farmstay List.....	46
3.2.3 <Admin> View Farmstay Detail.....	46
3.2.4 <Admin> Review Farmstay.....	47
3.2.5 <Admin> Search Farmstay	48
3.2.6 <Admin> View Activity Category List	48

3.2.7	<Admin> Create Activity Category	49
3.2.8	<Admin> Update Activity Category.....	50
3.2.9	<Admin> Lock Activity Category	50
3.2.10	<Admin> Search Activity Category.....	51
3.2.11	<Admin> View Room Category List	52
3.2.12	<Admin> Create Room Category	52
3.2.13	<Admin> Update Room Category.....	53
3.2.14	<Admin> Lock Room Category	54
3.2.15	<Admin> Search Room Category.....	55
3.2.16	<Admin> View Host List	56
3.2.17	<Admin> View Host Detail	57
3.2.18	<Admin> Search Host.....	57
3.2.19	<Admin> View Customer List	58
3.2.20	<Admin> View Customer Detail	59
3.2.21	<Admin> Search Customer	60
3.2.22	<Admin> View Order List	60
3.2.23	<Admin> View Order Detail	61
3.2.24	<Admin> Search Order.....	62
3.2.25	<Admin> View Feedback List.....	62
3.2.26	<Admin> View Feedback Detail.....	63
3.2.27	<Admin> View Disbursement List.....	64
3.2.28	<Admin> Confirm Disbursement Order.....	64
3.3	Web Application for Host	65
3.3.1	<Host> Signup	65
3.3.2	<Host> Signin	66
3.3.3	<Host> View Profile.....	67
3.3.4	<Host> Update Profile	67
3.3.5	<Host> Create Farmstay.....	68
3.3.6	<Host> Send Approval Request	69
3.3.7	<Host> View Reject Request.....	70
3.3.8	<Host> Update Farmstay	71
3.3.9	<Host> View Farmstay Detail.....	72
3.3.10	<Host> Update Image Farmstay.....	72

3.3.11	<Host> Update Location Farmstay.....	73
3.3.12	<Host> Create Activity.....	74
3.3.13	<Host> Lock Activity	75
3.3.14	<Host> Unlock Activity.....	76
3.3.15	<Host> Delete Activity	77
3.3.16	<Host> View Schedule of Farmstay	78
3.3.17	<Host> View Activity Detail.....	79
3.3.18	<Host> Update Image Activity	80
3.3.19	<Host> Update Activity	80
3.3.20	<Host> View Schedule of Activity	81
3.3.21	<Host> Create Room.....	82
3.3.22	<Host> Lock Room	83
3.3.23	<Host> Unlock Room.....	84
3.3.24	<Host> Delete Room	85
3.3.25	<Host> View Room Detail.....	86
3.3.26	<Host> Update Image Room.....	87
3.3.27	<Host> Update Room.....	88
3.3.28	<Host> View Schedule of Room	88
3.3.29	<Host> Create Service	89
3.3.30	<Host> Lock Service.....	90
3.3.31	<Host> Unlock Service	91
3.3.32	<Host> Delete Service.....	92
3.3.33	<Host> View Service.....	93
3.3.34	<Host> Update Service	94
3.3.35	<Host> Create Policy	95
3.3.36	<Host> Update Policy	95
3.3.37	<Host> Delete Policy	96
3.3.38	<Host> Approve/Reject Booking.....	97
3.3.39	<Host> View Order Detail	99
3.3.40	<Host> Search Order.....	99
3.3.41	<Host> View Notification	100
3.4	Mobile Application for Customer.....	101
3.4.1	<Customer> Signup	101

3.4.2	<Customer> Sign in	101
3.4.3	<Customer> Search farmstay	102
3.4.4	<Customer> View farmstay	103
3.4.5	<Customer> View activity detail.....	104
3.4.6	<Customer> View room detail	105
3.4.7	<Customer> View service detail	106
3.4.8	<Customer> View policy detail.....	106
3.4.9	<Customer> View profile.....	107
3.4.10	<Customer> Update profile.....	108
3.4.11	<Customer> Add items to cart.....	109
3.4.12	<Customer> Update cart.....	109
3.4.13	<Customer> Remove cart.....	110
3.4.14	<Customer> Create a booking	111
3.4.15	<Customer> Payment for booking.....	112
3.4.16	<Customer> View notification.....	112
3.4.17	<Customer> Cancel booking	113
3.4.18	<Customer> Feedback farmstay.....	114
4.	Non-Functional Requirements.....	115
4.1	External Interface.....	115
4.1.1	User Interfaces	115
4.1.2	Software Interfaces	115
4.1.3	Hardware Interfaces.....	115
4.1.4	Communication Interfaces	116
4.2	Quality Attributes.....	116
4.2.1	Usability	116
4.2.2	Reliability	116
4.2.3	Performance.....	116
4.2.4	Maintenance.....	116
5.	Requirement Appendix.....	116
5.1	Business Rules.....	116
5.2	Application Messages List	120
IV.	Software Design Document.....	122
1.	System Design.....	122

1.1	System Architecture	122
1.2	Package Diagram	123
2	Database Design	125
2.1	Database Diagram.....	125
2.2	Data Dictionary.....	126
2.2.1	Admin	126
2.2.2	User	126
2.2.3	Host	127
2.2.4	Customer	128
2.2.5	Farmstay	128
2.2.6	Feedback.....	129
2.2.7	Policy	129
2.2.8	FAQ	130
2.2.9	Service	130
2.2.10	ServiceCategory	131
2.2.11	OrderSummary	131
2.2.12	RoomOrderDetail.....	132
2.2.13	Room.....	132
2.2.14	RoomCategory.....	133
2.2.15	ActivityOrderDetail.....	133
2.2.16	Activity.....	134
2.2.17	ActivityTagDetail.....	135
2.2.18	TagCategory	135
2.2.19	Disbursement.....	135
2.2.20	Payment.....	136
2.2.21	MessageTemplate.....	137
2.2.22	Notification.....	137
3	Detailed Design.....	137
3.1	Management Farmstay Feature	137
3.1.1	Class diagram	137
3.1.2	<Host>Create Farmstay Sequence Diagram.....	138
3.1.3	<Host>View Farmstay Sequence Diagram	139
3.1.4	<Host>Update Farmstay Sequence Diagram.....	139

3.1.5 <Host>Send Review Farmstay Sequence Diagram	140
3.2 Management Activity Feature	140
3.2.1 Class diagram	140
3.2.2 <Host> Create Activity Sequence Diagram.....	140
3.2.3 <Host> Update Activity Sequence Diagram.....	141
3.3 Management Policy Feature	141
3.3.1 Class diagram	142
3.3.2 <Host> Create Policy Sequence Diagram.....	142
3.3.3 <Host> Update Policy Sequence Diagram.....	143
3.4 Management Room Feature	143
3.4.1 <Host> Create Room Sequence Diagram.....	143
3.4.2 <Host> Update Room Sequence Diagram.....	144
3.5 Management Service Feature	144
3.5.1 <Host> Create Service Sequence Diagram	144
3.5.2 <Host> Update Service Sequence Diagram	145
3.6 Management FAQ Feature.....	145
3.6.1 <Host> Create Faq Sequence Diagram	145
3.6.2 <Host> Update Faq Sequence Diagram	146
3.7 Management Profile Feature	146
3.7.1 <Host> View Profile Sequence Diagram	146
3.7.2 <Host> Update Profile Sequence Diagram	147
3.8 Management Booking Feature	147
3.8.1 <Host> Accept Booking Sequence Diagram.....	147
3.8.2 <Host> Reject Booking Sequence Diagram.....	148
3.8.3 <Host> View Booking Sequence Diagram	148
3.9 Management Service Category Feature	149
3.9.1 Class diagram	149
3.9.2 <Admin> Create Service Category Sequence Diagram.....	149
3.9.3 <Admin> Update Service Category Sequence Diagram.....	150
3.10 Management Room Category Feature.....	150
3.10.1 <Admin> Create Room Category Sequence Diagram	150
3.10.2 <Admin> Update Room Category Sequence Diagram	151
3.11 Management Tag Category Feature.....	151

3.11.1 <Admin> Create Tag Category Sequence Diagram	151
3.11.2 <Admin> Update Tag Category Sequence Diagram	152
3.12 Management Customer Feature.....	152
3.12.1 <Admin> View Customer Sequence Diagram	152
3.12.2 <Admin> Ban/Unban Customer Sequence Diagram.....	153
3.13 Management Host Feature.....	153
3.13.1 <Admin> View Host Sequence Diagram	153
3.13.2 <Admin> Ban/Unban Host Sequence Diagram	154
3.14 Management Booking Feature	154
3.14.1 <Customer> Create Booking Sequence Diagram.....	154
3.14.2 <Customer> Payment Booking Sequence Diagram	155
3.15 Management Cart Feature	156
3.15.1 <Customer> Get Cart Sequence Diagram	156
3.15.2 <Customer> Update Cart Sequence Diagram.....	157
3.16 Search Farmstay.....	158
3.16.1 <Customer> Search Farmstay Sequence Diagram.....	158
3.16.2 <Customer> Onboarding Sequence Diagram	159
V. Software Testing Documentation	160
1. Scope of Testing	160
2. Test Strategy	160
2.1 Testing Types	161
2.2 Test Levels.....	161
2.3 Supporting Tools.....	161
3 Test Plan.....	162
3.1 Human Resources	162
3.2 Test Environment.....	162
3.3 Test Milestones	162
4 Test Cases	162
5 Test Reports	162
VI. Release Package & User Guides.....	165
1. Deliverable Package.....	165
2. Installation Guides.....	165
2.1 System Requirements.....	165

2.2 Installation Instruction	165
2.2.1 Set up Environment for Backend	165
2.2.2 Set up Environment for Web Application.....	165
2.2.3 Set up Environment for Mobile Application	166
3 User Manual.....	166
3.1 Overview	166
3.2 Web Application for Host	167
3.3 Web Application for Admin	186
3.4 Mobile Application for Customer.....	202
VII. References.....	223

Table of Tables

Table 1 – Definition and Acronyms.....	16
Table 2 - Supervisor.....	17
Table 3 - Team Members	17
Table 4 – Scope & Estimation	24
Table 5 – Project Objectives	24
Table 6 - Project Risks	25
Table 7 - Training Plan	26
Table 8 - Project Deliverables	26
Table 9 - Responsibility Assignments.....	27
Table 10 - Communication Plan	27
Table 11 - FU Contacts	27
Table 12 - Tools & Infrastructures	28
Table 13- Actors.....	29
Table 14 – Use Case Description.....	35
Table 15 – Screen Description for Admin using Web Application	39
Table 16 – Screen Description for Host using Web Application	40
Table 17 – Screen Description for Customer using Mobile Application.....	41
Table 18 – Screen Authorization	43
Table 19 – Non-Screen Function	43
Table 20 – Entities Description.....	45
Table 21 - Business Rule	120
Table 22 - Application Messages List.....	122
Table 23 - Package Descriptions.....	125
Table 24 - Admin.....	126
Table 25 - User	127
Table 26 - Host	128
Table 27 - Customer	128
Table 28 - Farmstay.....	129

Table 29 - Feedback	129
Table 30 - Policy	130
Table 31 - FAQ	130
Table 32 - Service	131
Table 33 - Service Category	131
Table 34 - Order Summary	132
Table 35 - Room Order Detail	132
Table 36 - Room	133
Table 37 - Room Category	133
Table 38 - Activity Order Detail	134
Table 39 - Activity	135
Table 40 - Activity Tag Detail	135
Table 41 - Tag Category	135
Table 42 - Disbursement	136
Table 43 – Payment	137
Table 44 – MesageTemplate	137
Table 45 - Notification	137
Table 46 - Test Levels	161
Table 47 - Supporting Tools	162
Table 48 - Human Resources	162
Table 49 - Test Environment	162
Table 50 - Test Milestones	162
Table 51 - Deliverable Package	165
Table 52 – System Requirements	165

Table of Figures

Figure 1 - Scrum Framework	25
Figure 2 – Product Overview	29
Figure 3 - Web Application Use Case Diagram	31
Figure 4 - Mobile Application Use Case Diagram	32
Figure 5 - Screen Flow for Admin Web Application	36
Figure 6 - Screen Flow for Host Web Application	37
Figure 7 - Screen Flow for Customer Mobile Application	38
Figure 8 - Entity Relationship Diagram	43
Figure 9 - <Admin> Login	45
Figure 10 - <Admin> View Farmstay List	46
Figure 11 - <Admin> View Farsmtay Detail	47
Figure 12 - <Admin> Approve/Reject Farmstay	47
Figure 13 - <Admin> Search Farmstay	48
Figure 14 - <Admin> View Activity Category List	49
Figure 15 - <Admin> - Create Activity Category	49
Figure 16 - <Admin> Update Activity Category	50
Figure 17 - <Admin> Lock Activity Category	51
Figure 18 - <Admin> Search Activity Category	51
Figure 19 - <Admin> View Room Category List	52
Figure 20 - <Admin> Create Room Category	53

Figure 21 - <Admin> Update Room Category	54
Figure 22 - <Admin> Lock Room Category	55
Figure 23 - <Admin> Search Room Category	56
Figure 24 - <Admin> View Host List	56
Figure 25 - <Admin> View Host Detail	57
Figure 26 - <Admin> Search Host	58
Figure 27 - <Admin> View Customer List	59
Figure 28 - <Admin> View Customer Detail	59
Figure 29 - <Admin> Search Customer	60
Figure 30 - <Admin> View Order List	61
Figure 31 - <Admin> View Order Detail	61
Figure 32 - <Admin> Search Order	62
Figure 33 - <Admin> View Feedback List	63
Figure 34 - <Admin> View Feedback Detail	63
Figure 35 - <Admin> View Disbursement List	64
Figure 36 - <Admin> Confirm Disbursement Order	65
Figure 37 - <Admin> Sign up	66
Figure 38 - <Admin> Sign in	66
Figure 39 - <Host> View Profile	67
Figure 40 - <Host> Update Profile	68
Figure 41 - <Host> Create Farmstay	69
Figure 42 - <Host> Send Approval Request	70
Figure 43 - <Host> View Reject Request	71
Figure 44 - <Host> Update Farmstay	71
Figure 45 - <Host> View Farmstay Detail	72
Figure 46 - <Host> Update Image Farmstay	73
Figure 47 - <Host> Update Location Farmstay	74
Figure 48 - <Host> Create Activity	75
Figure 49 - <Host> Lock Activity	76
Figure 50 - <Host> Unlock Activity	77
Figure 51 - <Host> Delete Activity	78
Figure 52 - <Host> View Schedule Activity	79
Figure 53 - <Host> View Activity Detail	79
Figure 54 - <Host> Update Image Activity	80
Figure 55 - <Host> Update Activity	81
Figure 56 - <Host> View Schedule of Activity	82
Figure 57 - <Host> Create Room	83
Figure 58 - <Host> Lock Room	84
Figure 59 - <Host> Unlock Room	85
Figure 60 - <Host> Delete Activity	86
Figure 61 - <Host> View Room Detail	87
Figure 62 - <Host> Update Image Activity	87
Figure 63 - <Host> Update Room	88
Figure 64 - <Host> View Schedule of Room	89
Figure 65 - <Host> Create Service	90
Figure 66 - <Host> Lock Service	91

Figure 67 - <Host> Unlock Service.....	92
Figure 68 - <Host> Delete Service	93
Figure 69 - <Host> View Service.....	94
Figure 70 - <Host> Update Service	94
Figure 71 - <Host> Create Policy	95
Figure 72 - <Host> Update Policy	96
Figure 73 - <Host> Delete Policy	97
Figure 74 - <Host> Approve Booking	98
Figure 75 - <Host> Reject Booking	98
Figure 76 - <Host> View Order Detail	99
Figure 77 - <Host> Search Order.....	100
Figure 78 - <Host> View Notification.....	100
Figure 79 --<Customer> Sign up	101
Figure 80 - <Customer> Sign in	102
Figure 81 - <Customer> Search farmstay	103
Figure 82 - <Customer> View Farmstay.....	104
Figure 83 - <Customer> View Activity Detail	105
Figure 84 - <Customer> View Room Detail.....	105
Figure 85 - <Customer> View Service Detail.....	106
Figure 86 - <Customer> View Policy Detail	107
Figure 87 - <Customer> View Profile	108
Figure 88 - <Customer> Update Profile.....	108
Figure 89 - <Customer> Add items to cart.....	109
Figure 90 - <Customer> Update cart.....	110
Figure 91 - <Customer> Remove cart	111
Figure 92 - <Customer> Create a booking	112
Figure 93 - <Customer> Payment for booking.....	112
Figure 94 - <Customer> View notification.....	113
Figure 95 - <Customer> Cancel booking	114
Figure 96 - <Customer> Feedback Farmstay	115
Figure 97 – System Architecture	123
Figure 98 – Package Diagram.....	124
Figure 99 – Database Design.....	126
Figure 100 – Class Diagram Management Farmstay	138
Figure 101 - Create Farmstay Sequence Diagram	139
Figure 102 – View Farmstay Sequence Diagram	139
Figure 103 – Update Farmstay Sequence Diagram	140
Figure 104 – View Farmstay Detail Sequence Diagram	140
Figure 105 - Class Diagram Management Activity.....	140
Figure 106 – Create Activity Sequence Diagram.....	141
Figure 107 - Update Activity Sequence Diagram.....	141
Figure 108 - Class Diagram Management Policy	142
Figure 109 – Create Policy Sequence Diagram.....	143
Figure 110 - Update Policy Sequence Diagram.....	143
Figure 111 – Create Room Sequence Diagram.....	144
Figure 112 - Update Room Sequence Diagram.....	144

Figure 113 – Create Service Sequence Diagram	145
Figure 114 - Update Service Sequence Diagram	145
Figure 115 – Create Faq Sequence Diagram.....	146
Figure 116 - Update Faq Sequence Diagram.....	146
Figure 117 – View Profile Sequence Diagram.....	147
Figure 118 - Update Profile Sequence Diagram.....	147
Figure 119 – Accept Booking Sequence Diagram	148
Figure 120 – Reject Booking Sequence Diagram.....	148
Figure 121 – View Booking Sequence Diagram	149
Figure 122 - Class Diagram Management Service Category Feature.....	149
Figure 123 - Create Service Category Sequence Diagram.....	150
Figure 124 - Update Service Category Sequence Diagram.....	150
Figure 125 - Create Room Category Sequence Diagram	151
Figure 126 - Update Service Category Sequence Diagram.....	151
Figure 127 - Create Tag Category Sequence Diagram	152
Figure 128 - Update Tag Category Sequence Diagram.....	152
Figure 129 – View Customer Sequence Diagram.....	153
Figure 130 – Ban/Unban Customer Sequence Diagram.....	153
Figure 131 – View Host Sequence Diagram.....	154
Figure 132 – Ban/Unban Host Sequence Diagram.....	154
Figure 133 - <Customer> Create Booking Sequence Diagram.....	155
Figure 134 - <Customer> Payment Booking Sequence Diagram	156
Figure 135 - <Customer> Get Cart Sequence Diagram.....	157
Figure 136 - <Customer> Update Cart Sequence Diagram.....	158
Figure 137 - <Customer> Search Farmstay Sequence Diagram	159
Figure 138 - <Customer> Onboarding Sequence Diagram	160
Figure 139 - Agile Testing	161
Figure 140 - <Test Report> Test Statistic.....	163
Figure 141 - <Test Report> Unit Test.....	164

Acknowledgement

We express our sincere gratitude to our supervisors, Mr. Nguyen Tri Thong and Mr. Tran Thanh Nguyen, for their expert guidance and support throughout the development of our Capstone project. Additionally, we extend our appreciation to lecturers: Ms. Vo Thi Thanh Van, Mr. Nguyen The Hoang, and Mr. Nguyen Ngoc Lam for their valuable suggestions, thoughtful feedback, and constructive inquiries.

We recognize that the success of our Capstone project would not have been possible without the hard work and dedication of each individual on our team. Therefore, we extend our deep thanks and appreciation to everyone involved. Each member's hard work, dedication, and creativity have made this project a success.

We are also grateful to our friends and family members who have provided us with support, encouragement, and motivation throughout this project.

Lastly, we thank our university for providing us with an excellent learning environment and opportunities to undertake this Capstone Project.

Best regards,

GoFarm Team

Definition and Acronyms

Acronym	Definition
AWS	Amazon Web Services
BR	Business Rule
ERD	Entity Relationship Diagram
API	Application Program Interface
UC	Use Case
FAQ	Frequently Asked Question

Table 1 – Definition and Acronyms

I. Project Introduction

1 Overview

1.1 Project Information

- Project name: Build an application to help tourists find and camp in farmstays
- Project code: SP23SE30
- Group name: GSP23SE20
- Software Type: Web Application & Mobile Application

1.2 Project Team

1.2.1 Supervisor

Full Name	Email	Phone Number	Title
Nguyen Tri Thong	thongnt@fe.edu.vn	0907973989	Lecturer
Tran Thanh Nguyen	nguyentt15@fe.edu.vn	0967863063	Lecturer

Table 2 - Supervisor

1.2.2 Team Members

Full Name	Email	Phone Number	Role
Nguyen Dang Hai Anh	anhndhse151389@fpt.edu.vn	0934756727	Leader
Le Danh Trong	trongldse151359@fpt.edu.vn	0901481153	Member
Le Doan My Nhung	nhungldmse151295@fpt.edu.vn	0915284313	Member

Table 3 - Team Members

2. Product Background

Due to the increasing population of cities in Vietnam, there has been a rise in overpopulation, traffic congestion, and environmental pollution. To escape the hustle and bustle of city life, many people are seeking peaceful and nature-filled retreats where they can relax and unwind. Besides, the farmstay model is currently not widely available in Vietnam, and it can be difficult to find a suitable farmstay location. Additionally, it can be challenging for hosts to manage customer booking. Therefore, farmstays have emerged as a popular option to meet this demand. They not only appeal to young people who want to explore the countryside, but also to group tourists such as families with children. At a farmstay, tourists have the opportunity to participate in the host's daily activities, such as visiting the countryside market, cooking and harvesting rice, and caring for the flower garden. These experiences offer a chance to fully immerse oneself in a quiet and peaceful environment.

Our platform aims to address these challenges by connecting travellers with farmstays and providing a high-quality, immersive experience for both hosts and guests.

3. Existing System

3.1 Booking

Booking is a travel marketplace platform that allows people to find accommodation and helps accommodation providers reach a global audience and grow their businesses. It is accessible through a website and mobile app and includes users such as admin, host, and tourist. The platform helps tourists find a variety of accommodations, transportation options and allows customers to easily and quickly choose their desired place to stay. However, the website can be cluttered with too much information and there may be language inconsistencies.

<https://www.booking.com/>

3.2 FarmstayUSA

FarmstayUSA is a website that allows people to book farmstay in the United States. It uses a third-party website, such as Airbnb or VRBO, and includes users such as admin, farmer, and traveller. The website displays farmstay options and allows customers to check availability and save their favorite choices. The advantage is provided detailed information, such as reviews, activities, amenities, and food. The weakness is that it is complex for users and not available on mobile due to its reliance on a third party.

<https://farmstayus.com/>

4. Business Opportunity

Nowadays, many people tend to like to go to the countryside to relax. They have requested a system that would permit customers to easily book farmstays online and view detailed information about the farmstay. Such a system would save customers time and enhance their overall experience. Realising that problem, we have decided to develop a system that addresses these issues and provides a convenient solution for customers seeking a relaxing getaway in the countryside.

5. Software Product Vision

GoFarm is a software application that enables customers to easily book and discover farmstay that provide relaxation as well as join the experiences. With GoFarm, customers can save time and increase their options when it comes to finding the perfect farmstay. Additionally, the application brings significant benefits to farmstay management, optimising the experience for both customers and hosts alike. GoFarm aims to provide a convenient and effective solution for all parties involved in the farmstay experience.

6. Project Scope & Limitations

6.1 Major Features

6.1.1 Web application for Admin

FE-01: Authentication

FE-02: Manage host (search, view, ban, unban)

FE-03: Manage customer (search, view, ban, unban)

FE-04: Manage farmstay (search, view, lock, unlock, review)

- FE-05: Manage customer's order (search, view)
- FE-06: Manage disbursement (search, view, confirm)
- FE-07: Manage customer's feedback (search, view)
- FE-08: Manage room category (create, view, update, lock, unlock)
- FE-09: Manage service category (create, view, update, lock, unlock)
- FE-10: Manage tag category (create, view, update, lock, unlock)
- FE-11: View system report (total customers, total orders, total income, etc.)
- FE-12: Receive system notification

6.1.2 Web application for Host

- FE-13: Registration
- FE-14: Authentication
- FE-15: Manage profile (view, update)
- FE-16: Manage farmstay (create, view, update, send approval request)
- FE-17: Manage farmstay's services (create, view, update, delete, lock, unlock)
- FE-18: Manage farmstay's policies (create, view, update, delete, lock, unlock)
- FE-19: Manage farmstay's FAQs (create, view, update, delete, lock, unlock)
- FE-20: Manage booking request (view, approve/reject)
- FE-21: Manage disbursement (view)
- FE-22: Manage feedback (view, report)
- FE-23: Manage farmstay's activities (create, view, update, delete, lock, unlock)
- FE-24: Receive system notification

6.1.3 Mobile application for Customer

- FE-25: Registration
- FE-26: Authentication
- FE-27: Manage profile (view, update)
- FE-28: Search farmstay
- FE-29: View farmstay (information, FAQs, services, policies, reviews, activities)
- FE-30: Manage booking (create, view, update, checkout, pay, cancel)
- FE-31: Manage cart (add room/activity to cart, view cart, clear cart, remove cart)
- FE-32: Manage feedback (create, view)
- FE-33: Receive system notification

6.2 Limitations & Exclusions

6.2.1 Limitations

- LI-1. Technical limitations: The platform may have technical limitations that impact its performance or capabilities. For example, the platform may have limitations on the size or format of images and videos that can be uploaded by farmers, or limitations on the amount of data that can be stored or processed.
- LI-2. Resource limitations: The platform may have limitations on the resources it consumes or requires, such as server capacity, bandwidth, or storage space.
- LI-3. Compatibility limitations: The platform may have limitations on its compatibility with other products or systems, such as being unable to integrate with certain types of payment gateways or third-party software.

- LI-4. Coverage limitations: The platform may have limitations on the number of locations of farmstays that are available for booking, or limitations on the types of farmstays that are listed.
- LI-5. Device limitations: The platform may be limited to users with Android devices.

6.2.2 Exclusions

- EX-1: GoFarm is not responsible for losses or damages resulting from intentional or criminal acts or certain activities or behaviours.
- EX-2: GoFarm is not responsible for losses or damages resulting from natural disasters.
- EX-3: GoFarm is not responsible for losses or damages resulting from government action.
- EX-4: GoFarm is not responsible for losses or damages resulting from changes in laws or regulations.
- EX-5: GoFarm does not support losses or damages after using activities service

II. Project Management Plan

1. Overview

1.1 Scope & Estimation

No	WBS Item	Complexity	Est.Effort (man-days)
1	Specification		18
1.1	Finalize Project Ideas	Medium	3
1.2	Deliver Report 1 – Project Introduction	Simple	4
1.3	Deliver Report 2 – Project Management Plan	Simple	4
1.4	Deliver Report 3 - Software Requirements Specification	Medium	7
2	Design		16
2.1	Design User Interface (UI) Prototypes	Medium	8
2.2	Deliver Report 4 – Software Design Document	Medium	8
3	Learning & Training		10
3.1	Learn backend, frontend, mobile languages, and frameworks	Medium	10
4	Implementation		220
4.1	Set up environment	Medium	6
4.2	Create database	Medium	6
4.3	Common functions		15

4.3.1	Sign in	Simple	2
4.3.2	Sign up	Simple	2
4.3.3	Logout	Simple	1
4.3.4	View profile	Simple	2
4.3.5	Update profile	Simple	2
4.3.6	Get notifications	Medium	6
4.4	Web application for Admin		73
4.4.1	Search a host	Medium	2
4.4.2	Ban a host	Simple	1
4.4.3	Unban a host	Simple	1
4.4.4	View host detail	Simple	2
4.4.5	Search a customer	Simple	2
4.4.6	Ban a customer	Simple	1
4.4.7	Unban a customer	Simple	1
4.4.8	View customer detail	Simple	1
4.4.9	Search farmstay	Medium	3
4.4.10	View farmstay	Simple	2
4.4.11	Lock farmstay	Simple	2
4.4.12	Unlock farmstay	Simple	1
4.4.13	Search customer's order	Simple	2
4.4.14	View customer's order	Simple	2
4.4.15	Search disbursement	Simple	3
4.4.16	View disbursement	Simple	2
4.4.17	Search customer's feedback	Simple	2
4.4.18	View customer's feedback	Simple	2
4.4.19	Create room category	Simple	2
4.4.20	View room category	Simple	3
4.4.21	Update room category	Simple	2
4.4.22	Lock room category	Simple	2
4.4.23	Unlock room category	Simple	2
4.4.24	Create service category	Simple	2
4.4.25	View service category	Simple	2
4.4.26	Update service category	Simple	2
4.4.27	Lock service category	Simple	2

4.4.28	Unlock service category	Simple	2
4.4.29	Create activity category	Simple	2
4.4.30	View activity category	Simple	2
4.4.31	Update activity category	Simple	2
4.4.32	Lock activity category	Simple	2
4.4.33	Unlock activity category	Simple	2
4.4.34	View disbursement	Simple	1
4.4.35	Search disbursement	Simple	1
4.4.36	Confirm disbursement	Simple	2
4.4.37	View system report	Simple	2
4.4.38	Receive system notification	Simple	2
4.5	Mobile application for Host		76
4.5.1	Create farmstay	Simple	3
4.5.2	Update farmstay	Simple	2
4.5.3	Upload the farmstay avatar	Simple	3
4.5.4	View farmstay	Simple	2
4.5.5	Create farmstay's service	Simple	3
4.5.6	View farmstay's service	Simple	2
4.5.7	Update farmstay's service	Simple	2
4.5.8	Delete farmstay's service	Simple	1
4.5.9	Lock farmstay's service	Simple	2
4.5.10	Unlock farmstay's service	Simple	1
4.5.11	Create farmstay's policy	Simple	3
4.5.12	View farmstay's policy	Simple	2
4.5.13	Update farmstay's policy	Simple	2
4.5.14	Delete farmstay's policy	Simple	1
4.5.15	Lock farmstay's policy	Simple	1
4.5.16	Unlock farmstay's policy	Simple	2
4.5.17	Create farmstay's faq	Simple	3
4.5.18	View farmstay's faq	Simple	2
4.5.19	Update farmstay's faq	Simple	2
4.5.20	Delete farmstay's faq	Simple	2
4.5.21	Lock farmstay's faq	Simple	1

4.5.22	Unlock farmstay's faq	Simple	1
4.5.23	Create farmstay's activity	Simple	3
4.5.24	View farmstay's activity	Simple	2
4.5.25	Update farmstay's activity	Simple	2
4.5.26	Delete farmstay's activity	Simple	1
4.5.27	Lock farmstay's activity	Simple	1
4.5.28	Unlock farmstay's activity	Simple	1
4.5.29	View booking request	Simple	3
4.5.30	Review booking request	Medium	3
4.5.31	View disbursement	Medium	2
4.5.32	View feedback	Simple	2
4.5.33	Receive system notification	Medium	5
4.6	Mobile application for Customer		44
4.6.1	Search farmstay	Medium	5
4.6.2	View farmstay	Simple	2
4.6.3	View booking	Simple	2
4.6.4	Create booking	Simple	3
4.6.5	Checkout booking	Medium	5
4.6.6	Cancel booking	Medium	4
4.6.7	Update booking	Simple	2
4.6.8	Add room/activity to cart	Simple	2
4.6.9	Remove cart	Simple	2
4.6.10	Payment booking	Medium	6
4.6.11	Receive notification	Simple	2
4.6.12	Create feedback	Simple	2
4.6.13	View feedback	Simple	2
4.6.14	View profile	Simple	2
4.6.15	Update profile	Simple	2
4.6.16	View farmstay's FAQs	Simple	2
4.6.17	View farmstay's activities	Simple	2
4.6.18	View farmstay's services	Simple	2
4.6.19	View farmstay's policies	Simple	2
5	Testing		20
5.1	Deliver Report 5 – Test Report	Medium	20

5.1.1	Create test plan	Simple	4
5.1.2	Unit Test	Medium	5
5.1.3	Integration Test	Medium	5
5.1.4	System Test	Simple	3
5.1.5	User Acceptance Test	Simple	3
6	Closing		10
6.1	Deliver Report 6 -Software User Guide	Simple	3
6.2	Deliver Report 7 -Final Project Report	Simple	4
6.3	Create slide and practice thesis defense	Simple	3
Total Estimated Effort (man-days)			294

Table 4 – Scope & Estimation

1.2 Project Objectives

- Milestone Timeliness (%): > 90%
- Allocated Effort (man-days):
3 (members) * 14 (weeks) * 7 (days/week) = 294 man-days
- Defect Distribution:

No	Testing Stage	No. of Defects	% Of Defect	Notes
1	Reviewing	20	20%	
2	Unit Test	30	30%	
3	Integration Test	20	20%	
4	System Test	30	30%	
5	User Acceptance Test	X	X%	
Total		100	100%	

Table 5 – Project Objectives

1.3 Project Risk

No	Risk Description	Impact	Possibility	Response Plans
1	Not understanding requirements	High	Medium	Develop a prototype and review this with supervisors.
2	Project out of scope	Medium	Medium	Break down tasks, confirm project scope, and project planning clearly

3	Member drops out	High	Medium	Reduce scope and reconcile project plan
4	Conflicts between team members	Medium	High	Creating a meeting to share uncomfortable things.
5	Tet holiday might affect project process	Medium	High	All members must have responsibility for their task
6	Lack of experience and knowledge.	High	Medium	All members should support together

Table 6 - Project Risks

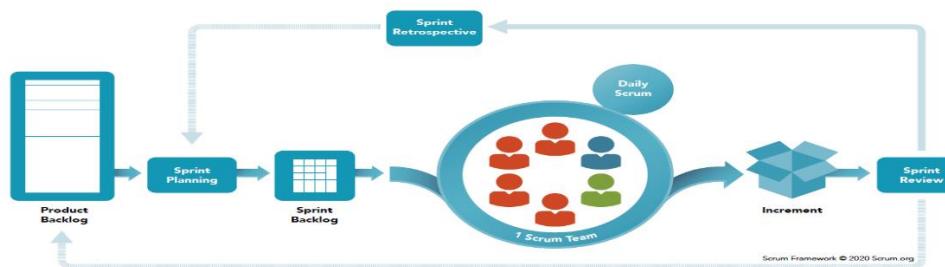
2. Management Approach

2.1 Project Process

Our team has chosen Scrum of Agile Software Development Model for several reasons:

- Scrum helps us to adapt to changes and deliver the highest value to the customer by prioritizing the most important features.
- Scrum provides early feedback and promotes collaboration, which helps us to deliver a high-quality product that meets the customer's needs.
- We are using Scrum to guide our development process and ensure that we are working efficiently and effectively to meet the project deadline.

SCRUM FRAMEWORK



 Scrum.org™

Figure 1 - Scrum Framework

2.2 Quality Management

We use some methodologies to avoid defects, such as:

- Unit Testing
- Integration Testing
- System Testing
- Acceptance Testing

2.3 Training Plan

Training Area	Participants	When Duration	Waiver Criteria
Java & Spring Boot	AnhNDH, NhungLDM	Start on 02/01/2023, 02 weeks	Mandatory
ReactJS	TrongLD	Start on 02/01/2023, 02 weeks	Mandatory
Flutter	TrongLD	Start on 02/01/2023, 02 weeks	Mandatory
Git, GitHub	All	Start on 16/01/2023, 01 weeks	Mandatory
Agile methodologies	All	Start on 23/01/2023, 02 weeks	Mandatory

Table 7 - Training Plan

3. Project Deliverables

No	Deliverable	Due Date	Notes
1	Project Plan	02/01/2023	Make project goal plan
2	Report 1	04/01/2023	Project Introduction
3	Report 2	06/01/2023	Project management plan
4	Report 3	09/01/2023	Software requirement specification
5	Report 4	20/01/2023	Software design document
6	Report 5	24/03/2023	Test case document, test documentation
7	Report 6	29/03/2023	Software user guides
8	Report 7	20/04/2023	Final project report

Table 8 - Project Deliverables

4. Responsibility Assignments

D~Do; R~Review; S~Support; I~Informed; - Omitted

Responsibility	AnhNDH	TrongLD	NhungLDM
Project Planning & Tracking	D	S	R
Prepare Project Introduction Document	D	S	D
Project Management Plan	R	D	R
Software Requirement Specification	D	R	S
Software Design Description	S	D	S
Software Testing Documentation	R	S	D
Release Package & User Guides	D	R	S
Web Application	D	S	D
Mobile Application	R	D	R
Final package	D	D	D

Table 9 - Responsibility Assignments

5. Project Communication

5.1 Communication Plan

Communication Item	Who/ Target	Purpose	When, Frequency	Type, Tool, Method(s)
Meeting Online	Team members & Supervisor	Solve Problem, Review Report, Progress Report receive reviews from supervisor	Once a week	Google Meet
Zalo Texting	Supervisor	Confirm Meeting Time, Report Working Process	Usually	Zalo
Meeting Offline	Team member & Supervisor	Solve Problem, Review Report, Progress Report receive reviews from supervisor	Once a week	FPT University Campus Ho Chi Minh
Meeting Online	Team members	Check personal task, demo, solve conflict	Twice a week	Google Meet

Table 10 - Communication Plan

5.2 External Interface

5.2.1 FU Contacts

Function	Contact Person (name, position)	Contact address (email, telephone)	Responsibility
Supervisor	Nguyen Tri Thong	thongnt@fe.edu.vn 0907973989	<ul style="list-style-type: none"> - Provide document template - Give instruction to project team - Review deliverables - Supervise project status
Supervisor	Tran Thanh Nguyen	nguyentt15@fe.edu.vn 0912656836	<ul style="list-style-type: none"> - Comments and advice about the project - Receive report project - Answer questions about the project

Table 11 - FU Contacts

6. Configuration Management

6.1 Document Management

- Using Google Drive to store and manage all project-related documents.
- Using document collaboration tools (such as Google Docs, Google Sheets, Google Slides, or Microsoft Teams) to facilitate real-time editing of documents.

6.2 Source Code Management

- We use Git for version control of our source code.
- We use GitHub as our central repository for storing and managing our source code. Developers are required to create branches with names that correspond to the problem they are working on.
- All code changes must be reviewed and approved by at least one other team member before being merged into the **develop** branch.
- We use pull requests and code review processes to ensure the quality and accuracy of our source code.

6.3 Tools & Infrastructures

Category	Tools / Infrastructures
Technology	Flutter, ReactJS, Java / Spring Boot Docker, Redis, OpenSearch, Google Map API, Firebase Authorization, Firebase Message Cloud, AWS S3
Database	MySQL
IDEs/Editors	Visual Studio Code, IntelliJ IDEA
Diagramming	Star UML, Draw.io
Documentation	Google Docs, Google Sheets, Google Slides
Version Control	GitHub
Deployment Server	Firebase, AWS
Project management tool	JIRA

Table 12 - Tools & Infrastructures

III. Software Requirement Specification

1. Product Overview

GoFarm is a software application that would help customers easily book farmstays online. The application aims to provide customers with an immersive farmstay experience while also supporting hosts in managing bookings easily. The application would be updated to the latest version. We have plans to develop a product that works on device: Android by setting configuration changes that are more suited to a production environment.

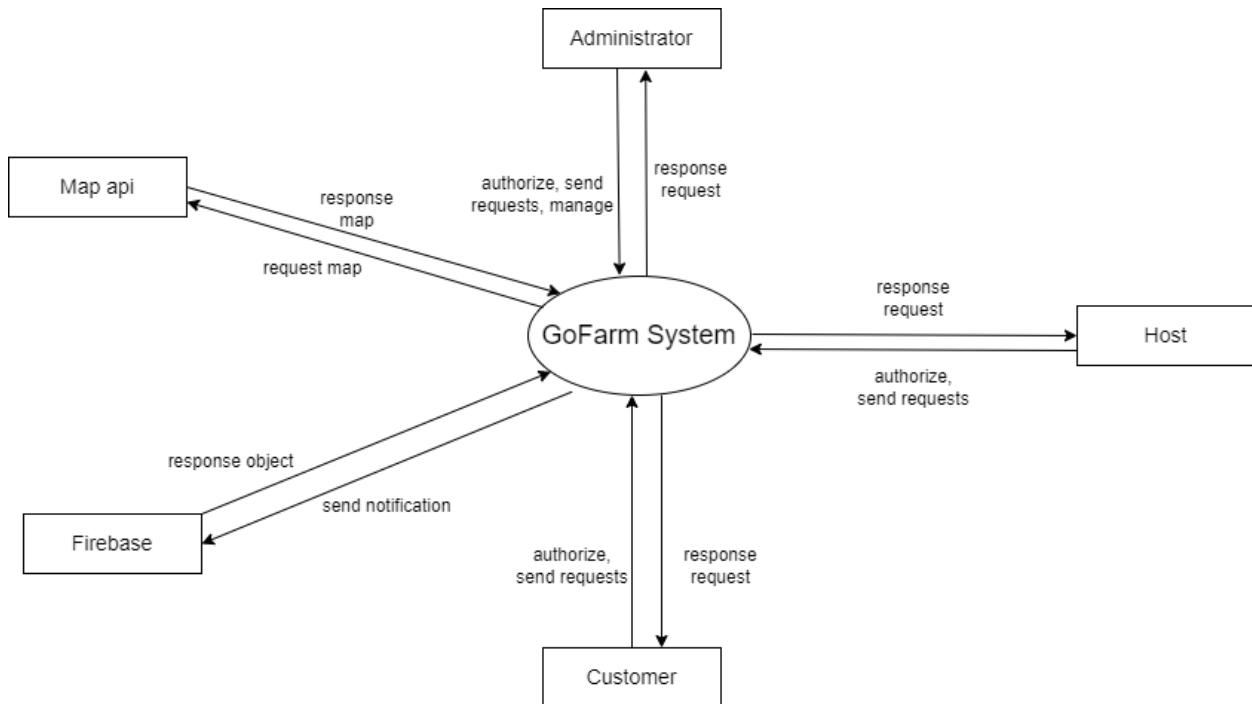


Figure 2 – Product Overview

2. User Requirements

2.1 Actor

No	Actor	Description
1	Admin	User logged in to GoFarm web application as Admin role
2	Host	User logged in to GoFarm web application as Host role
3	Customer	User logged in to GoFarm mobile application as Customer role

Table 13- Actors

2.2 Use cases

2.2.1 Diagram(s)

[Web Application Use Case Diagram](#)



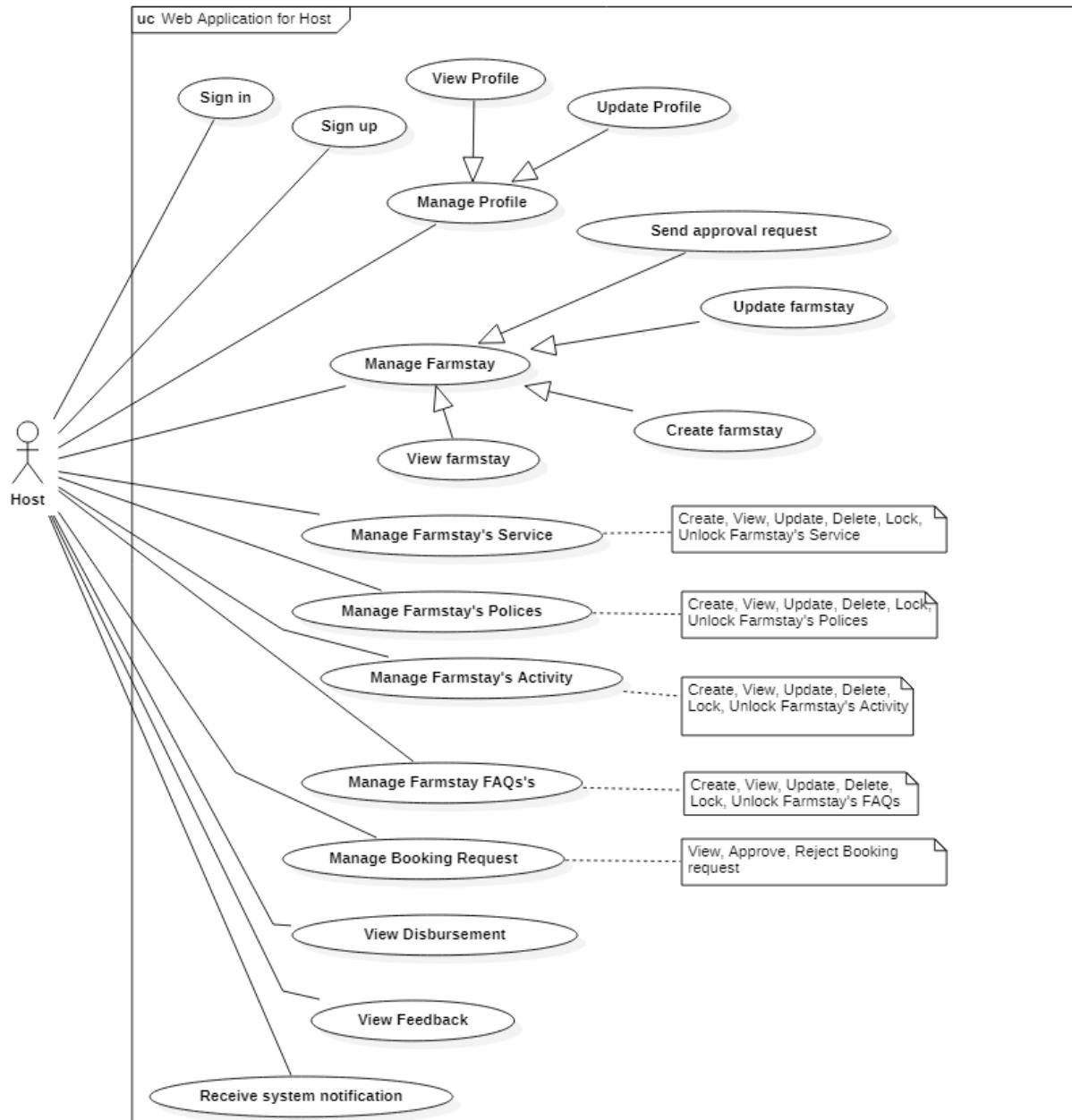


Figure 3 - Web Application Use Case Diagram

Mobile Application Use Case Diagram



Figure 4 - Mobile Application Use Case Diagram

2.2.2 Descriptions

No	Use case	Actor	Description
----	----------	-------	-------------

1	Sign up	Guest	Allow guest to sign up
2	Login	Admin, Host, Customer	Allow admin, host, customer to login
3	Search hosts	Admin	Allow admin to search hosts by various attributes such as name, address, etc.
4	View a host	Admin	Allow admin to view a host information
5	Ban host	Admin	Allow admin to ban a host information
6	Search customers	Admin	Allow admin to search customer by various attributes such as name, address, etc.
7	View a customer	Admin	Allow admin to view a customer information
8	Ban customer	Admin	Allow admin to ban customer
9	Search farmstay	Admin	Allow admin to search farmstays
10	View farmstay	Admin	Allow admin to view farmstay information
11	Lock farmstay	Admin	Allow admin to lock a farmstay that is deemed inappropriate
12	View the newly created farmstay	Admin	Allow admin to view the newly created farmstay
13	Review the newly created farmstay	Admin	Allow admin to review the newly created farmstay
14	View customer order	Admin	Allow admin to view order details
15	Search customer orders	Admin	Allow admin to search customer orders and view the details of those orders on the farmstay booking application
16	View disbursement	Admin	Allow admin to view for the host's requests to disbursement order from the application. The admin will be able to view a list of all the hosts who have made a request to disbursement from the application
17	Search disbursement	Admin	Allow admin to search for the host's requests to disbursement from the application.
18	Search feedback	Admin	Allow admin to search feedback based on specific criteria, such as ID, name, and other relevant information.
19	View feedback	Admin	Allow admin to view feedback created by the customer about the farmstays.
20	Create room category	Admin	Allow admin to create room category
21	View room category	Admin	Allow admin to view room category
22	Update room category	Admin	Allow admin to update room category
23	Lock room category	Admin	Allow admin to lock room category

24	Create service category	Admin	Allow admin to create service category
25	View service category	Admin	Allow admin to view service category
26	Update service category	Admin	Allow admin to update service category
27	Lock service category	Admin	Allow admin to lock service category
28	Create activity category	Admin	Allow admin to create activity category
29	View activity category	Admin	Allow admin to view activity category
30	Update activity category	Admin	Allow admin to update activity category
31	Lock activity category	Admin	Allow admin to lock activity category
32	View system report	Admin	Allow admin to view system report
33	Send and receive message	Admin	Allow admin to send and receive message. The messages can be related to bookings, farmstays, or other general inquiries.
34	View profile	Host, Customer	Allow host and customer to view their profile information
35	Update profile	Host, Customer	Allow host and customer to update their profile information
36	Create a farmstay	Host	Allow host to create a new farmstay
37	Update a farmstay	Host	Allow host to update a new farmstay
38	View a farmstay	Host	Allow host to view a farmstay
39	Create farmstay services	Host	Allow host to create farmstay services offered at their farmstay
40	Update farmstay services	Host	Allow host to update farmstay services at their farmstay
41	Lock farmstay services	Host	Allow host to lock an existing farmstay services
42	View farmstay services	Host	Allow host to view farmstay services
43	Create farmstay policies	Host	Allow host to create farmstay policies associated with their farmstay
44	Update farmstay policies	Host	Allow host to update farmstay policies associated with their farmstay
45	Lock farmstay policies	Host	Allow host to lock an existing farmstay policies
46	View farmstay policies	Host	Allow host to view farmstay policies
47	Create farmstay FAQs	Host	Allow host to create frequently asked questions (FAQs) for their farmstay
48	Update farmstay FAQs	Host	Allow host to update frequently asked questions (FAQs) for their farmstay
49	Lock farmstay FAQs	Host	Allow host to lock frequently asked questions (FAQs) for their farmstay
50	View farmstay FAQs	Host	Allow host to view frequently asked questions (FAQs) for their farmstay
51	Approve booking request	Host	Allow host to approve booking request
52	Reject booking request	Host	Allow host to reject booking request

53	View booking request	Host	Allow host to view view booking request
54	View disbursement	Host	Allow host to view disbursement order
55	Search feedback	Host	Allow host and customer to search feedback
56	View feedback	Host, Customer	Allow host and customer to view feedback
57	Create farmstay's activites	Host	Allow host to create farmstay's activities at their farmstay
58	View farmstay's activites	Host	Allow host to view farmstay's activities at their farmstay
59	Update farmstay's activites	Host	Allow host to update farmstay's activities at their farmstay
60	Lock farmstay's activites	Host	Allow host to lock farmstay's activities at their farmstay
61	Receive system notification	Host, Customer	Allow host and customer to receive system notification
62	Search farmstay	Customer	Allow customer to search farmstay
63	View farmstay	Customer	Allow customer to view farmstay information as services, policies, activities etc
64	Add room/activity to cart	Customer	Allow customer to add room or activity to cart
65	View cart	Customer	Allow customer to view cart
66	Delete cart	Customer	Allow customer to delete cart
67	Create booking	Customer	Allow customer to create a booking
68	View booking	Customer	Allow customer to view booking detail
69	Update booking	Customer	Allow customer to update their booking
70	Cancel booking	Customer	Allow customer to cancel their booking
71	Checkout booking	Customer	Allow customer to checkout booking
72	Payment	Customer	Allow customer to payment for their booked farmstay.

Table 14 – Use Case Description

3. Functional Requirements

3.1 System Functional Overview

3.1.1 Screen Flow

Admin using web application

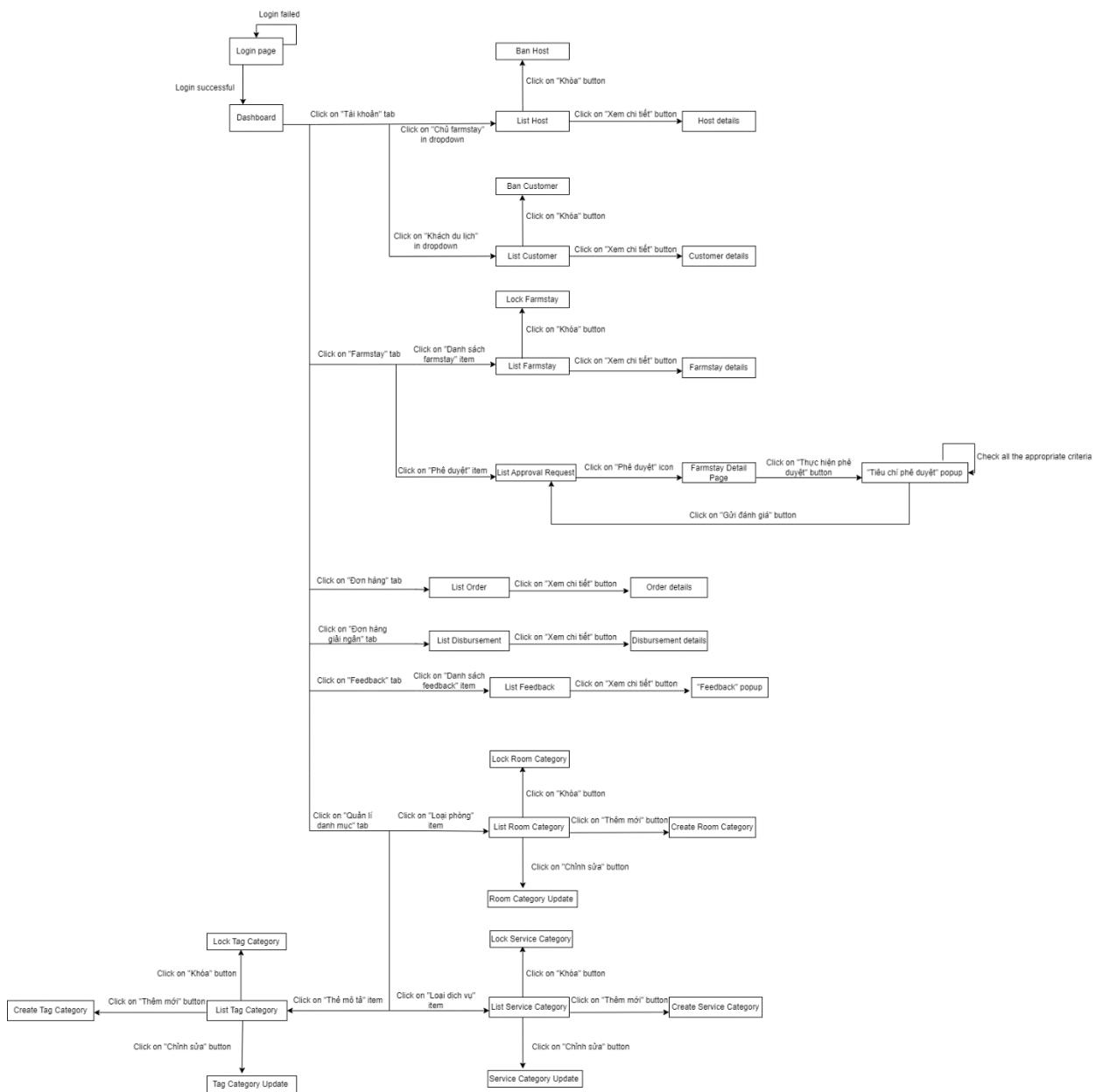


Figure 5 - Screen Flow for Admin Web Application

Host using web application

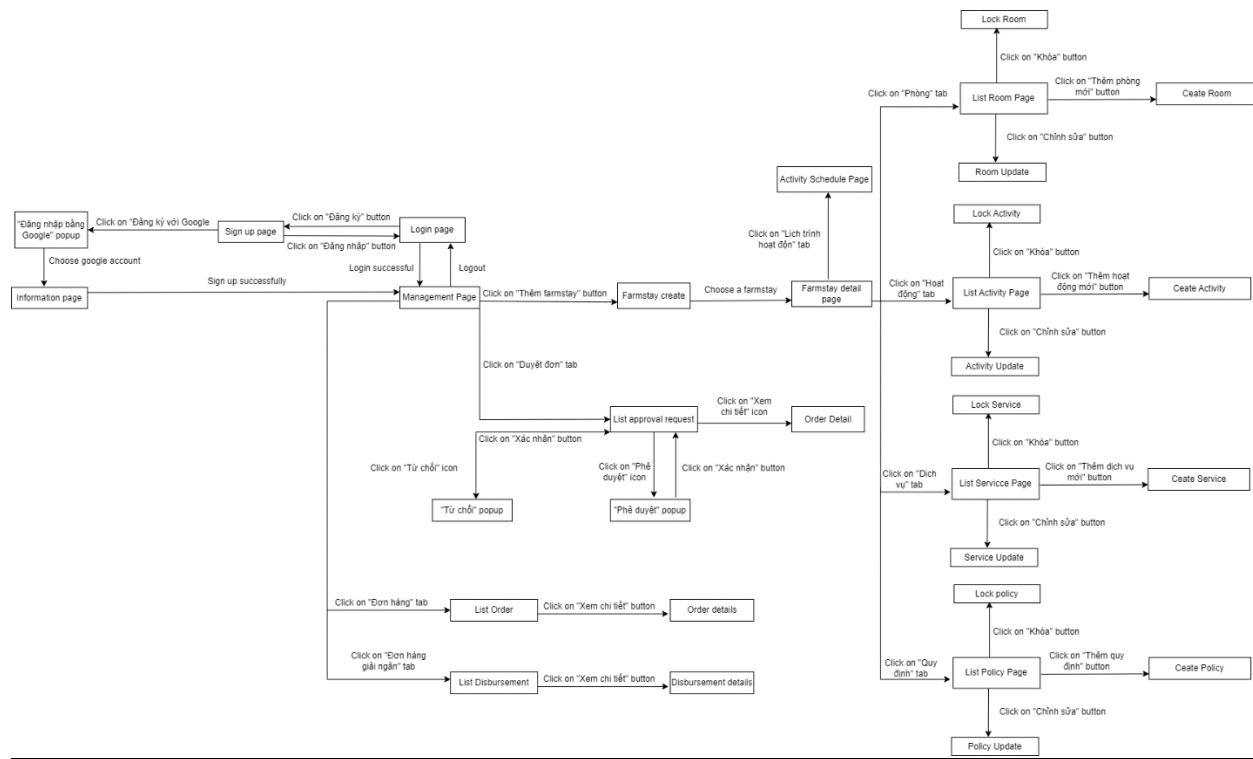


Figure 6 - Screen Flow for Host Web Application

Customer using mobile application

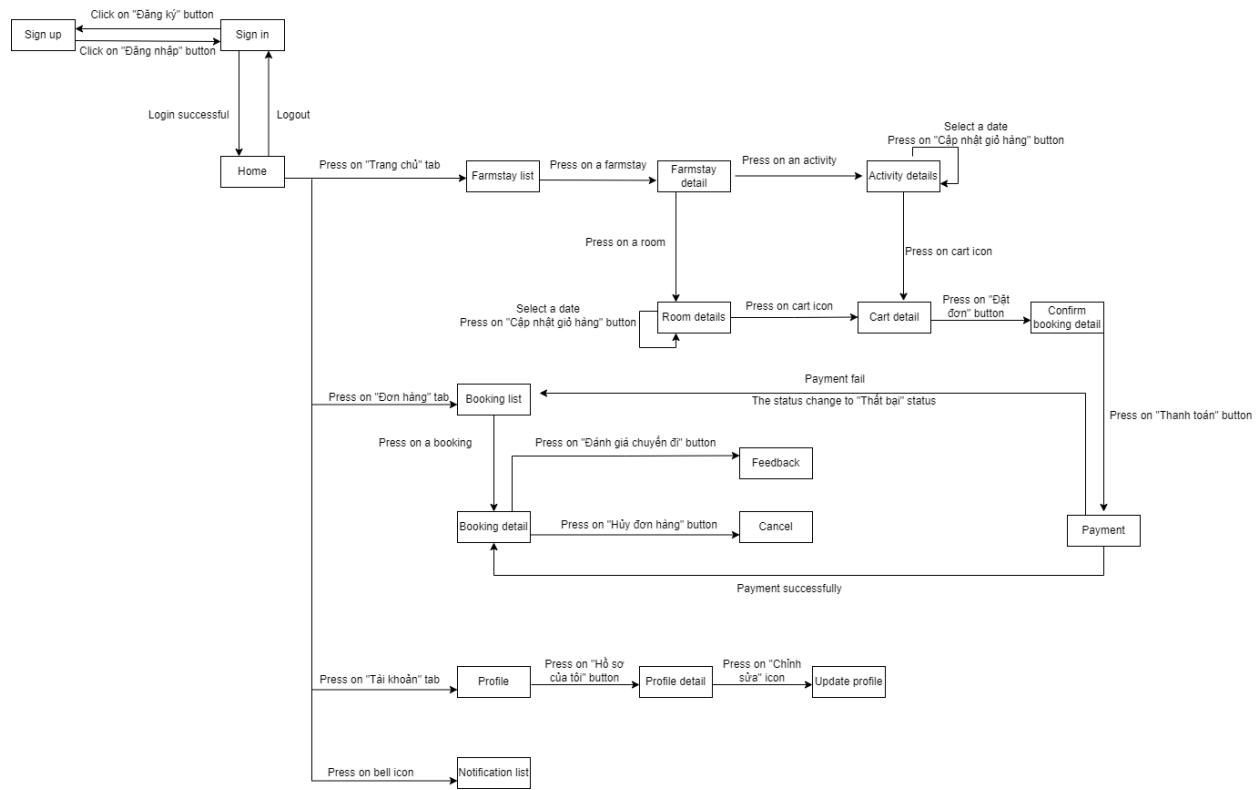


Figure 7 - Screen Flow for Customer Mobile Application

3.1.2 Screen Description

Admin using web application

No	Features	Screen	Description
1	Authentication	Login	User log into the system with Google account
2	Host Management	List Host	User can see list host
3	Host Management	Host details	User can see host details
4	Host Management	Ban Host	User can ban a host
5	Customer Management	List Customer	User can see list customer
6	Customer Management	Customer details	User can see customer details
7	Customer Management	Ban Customer	User can ban a customer
8	Farmstay Management	List Farmstay	User can see list farmstay
9	Farmstay Management	Lock Farmstay	User can lock a farmstay
10	Farmstay Management	Farmstay details	User can see farmstay details
11	Farmstay Management	List Approval Request	User can see list approval request
12	Farmstay Management	“Tiêu chí phê duyệt” popup	User can see “Tiêu chí phê duyệt” popup and check all criteria
13	Order Management	List Order	User can view list order
14	Order Management	Order Details	User can see order details
15	Disbursement Management	List Disbursement	User can view list disbursement
16	Disbursement Management	Disbursement Details	User can see disbursement details
17	Feedback Management	List Feedback	User can view list feedback
18	Feedback Management	“Feedback” popup	User can see “Feedback” popup
19	Room Category Management	List Room Category	User can view list room category
20	Room Category Management	Create Room Category	User can create a room category
21	Room Category Management	Update Room Category	User can update a room category
22	Room Category Management	Lock Room Category	User can lock a room category

23	Service Category Management	Create Service Category	User can create a service category
24	Service Category Management	List Service Category	User can view list service category
25	Service Category Management	Update Service Category	User can update a service category
26	Service Category Management	Lock Service Category	User can lock a service category
27	Tag Category Management	List Tag Category	User can view list tag category
28	Tag Category Management	Create Tag Category	User can create a tag category
29	Tag Category Management	Update Tag Category	User can update a tag category
30	Tag Category Management	Lock Tag Category	User can lock a tag category

Table 15 – Screen Description for Admin using Web Application

Host using web application

No	Features	Screen	Description
1	Authentication	Login	User log into the system with Google account
2	Authentication	Sign up	User log into the system with Google account
3	Farmstay Management	Farmstay Create	User can create a farmstay
4	Farmstay Management	Farmstay detail	User can view farmstay details
5	Farmstay Management	Activity Schedule	User can view activity schedule
6	Farmstay Management	List Approval Request	User can view list approval request
7	Activity Management	List Activity	User can view list activity
8	Activity Management	Create Activity	User can create an activity
9	Activity Management	Activity Update	User can update an activity
10	Activity Management	Lock Activity	User can lock an activity
11	Room Management	List Room	User can view list room
12	Room Management	Lock Room	User can lock room
13	Room Management	Create Room	User can create room
14	Room Management	Room Update	User can update room

15	Service Management	List Service	User can view list service
16	Service Management	Lock Service	User can lock service
17	Service Management	Create Service	User can create a service
18	Service Management	Update Service	User can update a service
19	Policy Management	List Policy	User can view list policy
20	Policy Management	Lock Policy	User can lock policy
21	Policy Management	Create Policy	User can create policy
22	Policy Management	Update Policy	User can update policy
23	Order Management	List Order	User can view list order
24	Order Management	Order Details	User can view order details
25	Disbursement Management	List Disbursement	User can view list disbursement
26	Disbursement Management	Disbursement details	User can view disbursement details

Table 16 – Screen Description for Host using Web Application

Customer using mobile application

No	Features	Screen	Description
1	Authentication	Signup	Customer sign up to the application by Google account
2	Authentication	Sign in	Customer sign in the application by Google account
3	Farmstay management	Home - Farmstay list	Customer can see farmstay list
4	Farmstay management	Home - Farmstay list - Farmstay details	Customer can see farmstay details
5	Activity management	Farmstay details - Activity details	Customer can see activity details
6	Room management	Farmstay details - Room details	Customer can see room details
7	View cart	Activity details – Cart detail	Customer can view cart detail
8	Booking management	Home – Booking list	Customer can view booking list

9	Booking management	Home – Booking list – Booking detail	Customer can view booking detail
10	Booking management	Confirm booking detail	Customer can confirm booking detail
11	Booking management	Confirm booking detail - Payment	Customer can payment
12	Booking management	Booking detail - Cancel	Customer can cancel booking one period check-in date
13	Create feedback	Booking detail – Feedback	Customer can create feedback
14	View notification list	Home - Notification list	Customer can see notification list
15	Profile management	Home - Profile	Customer can see their profile
16	Profile management	Home - Profile - Profile update	Customer can update profile

Table 17 – Screen Description for Customer using Mobile Application

3.1.3 Screen Authorization

Screen	Admin	Host	Customer
Sign in	X	X	X
Sign up		X	X
List Host	X		
Host Details	X		
Ban Host	X		
List Customer	X		
Customer Details	X		
Ban Customer	X		
List Farmstay	X		X
Lock Farmstay	X		
Farmstay Details	X	X	X
List Approval Request	X	X	
“Phê duyệt” popup	X	X	
“Từ chối” popup	X	X	
List Order	X	X	
Order Details	X	X	
List Disbursement	X		
Disbursement Details	X		

List Feedback	X		
“Feedback” popup	X		
List Room Category	X		
Create Room Category	X		
Update Room Category	X		
Lock Room Category	X		
List Service Category	X		
Create Service Category	X		
Update Service Category	X		
Lock Service Category	X		
List Tag Category	X		
Create Tag Category	X		
Update Tag Category	X		
Lock Tag Category	X		
Farmstay Create			X
Farmstay Update			X
Activity Schedule	X	X	
List Activity	X	X	
Create Activity			X
Activity Update			X
Lock Activity			X
List Room	X	X	
Create Room			X
Update Room			X
Lock Room			X
List Service	X	X	
Create Service			X
Update Service			X
Lock Service			X
List Policy	X	X	
Create Policy			X
Update Policy			X
Lock Policy			X
Activity Detail			X
Room Detail			X
Cart Detail			X
Confirm booking detail			X
Booking list			X
Booking detail			X
Payment			X
Feedback			X
Cancel			X
Profile detail			X
Update profile			X

Notification list			X
-------------------	--	--	---

Table 18 – Screen Authorization

3.1.4 Non-Screen Function

No	Features	System Function	Description
1	System notification	Send a notification regarding a customer's booking, payment or other relevant information	System sends a notification to remind customer or host
2	Payment processing	Payment gateway integration, transaction processing, refund processing	This feature processes customer and host payments, integrating with gateways, securing transactions, and handling refunds as needed

Table 19 – Non-Screen Function

3.1.5 Entity Relationship Diagram

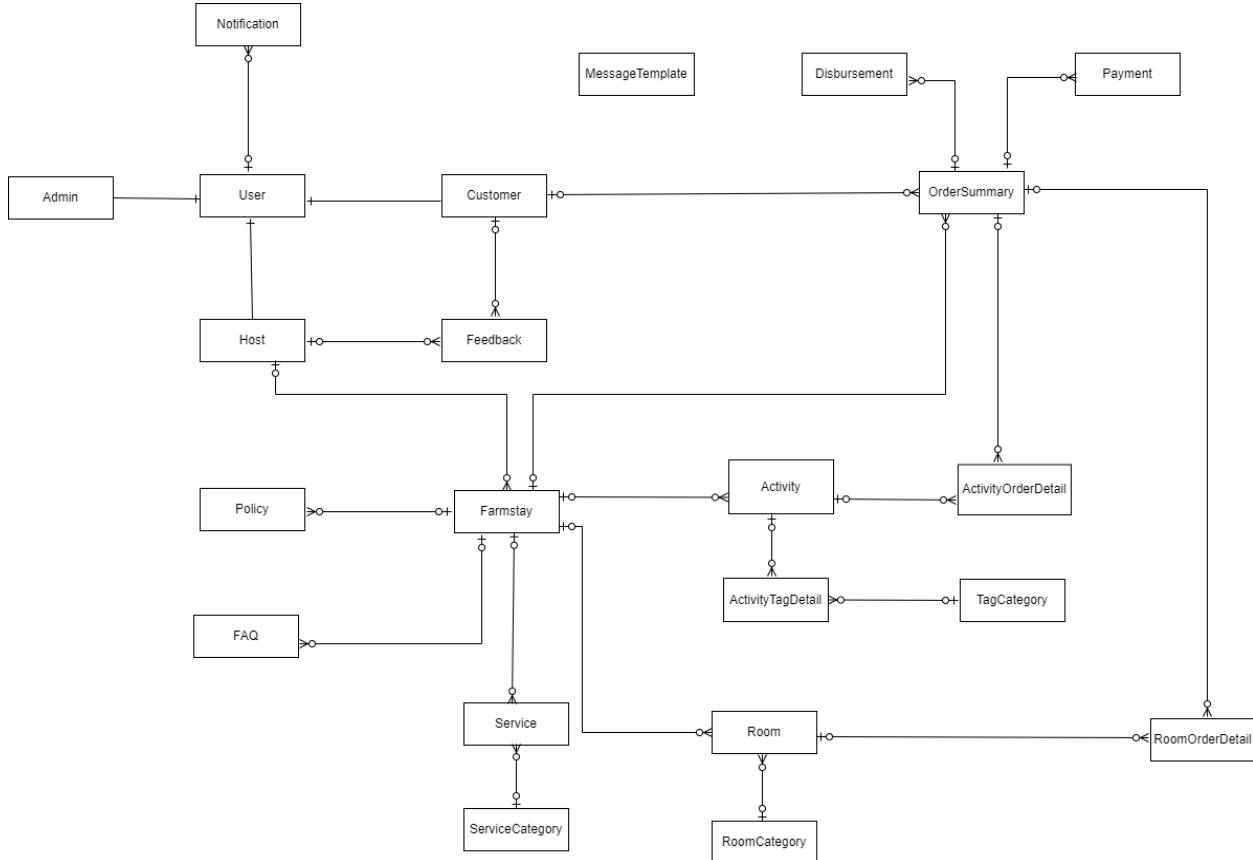


Figure 8 - Entity Relationship Diagram

Entities Description

No	Entity	Description
1	Admin	A person who wants to manage the system
2	Host	A host who provides accommodations or activities on the platform
3	Customer	A person who uses the platform to search for and book farmstay or activities offered by hosts
4	User	This entity represents a user of the system.
5	Farmstay	Provides accommodations in farm and participating in farm-related activities. It may include information such as the property name, location, description, available activities, pricing, and availability.
6	Policy	The set of rules or guidelines that customers must abide by. It may include information such as check-in and check-out times, cancellation policy, noise policy, smoking policy, etc
7	Service	A type of offering that provides a specific amenity or activity to customer
8	ServiceCategory	The different types of services offered by the farmstay.
9	FAQ	It is a lists of answers common questions that customer may have about farmstay, services, or activities
10	OrderSummary	A booking made by a customer
11	RoomOrderDetail	The specific details of a booking for a room in the farmstay.
12	Room	A space that customer can stay in farmstay
13	RoomCategory	The different types of rooms offered by the farmstay.
14	ActivityOrderDetail	The specific details of a booking for a activity in the farmstay.
15	Activity	A experience offered by the farmstay that is not specifically related to accommodation
16	TagCategory	A category of tags that can be used to classify different activities.

17	ActivityTagDetail	Additional information about an activity
18	Payment	Payment entity represents the financial transaction between customers and hosts.
19	Disbursement	The payment of expenses and disbursement of funds for the farm stays operations
20	Feedback	A comment of customer or host about farmstay, activities, etc
21	MessageTemplate	Message template that can be used to send messages to users
22	Notification	Notification entity represents a message sent to users or systems to inform about an event or an action taken in the system.

Table 20 – Entities Description

3.2 Web Application For Admin

3.2.1 <Admin> Login

- Function trigger: The actor requests to login by Google account
- Function description: This function allows the actor to login.
- Screen layout:

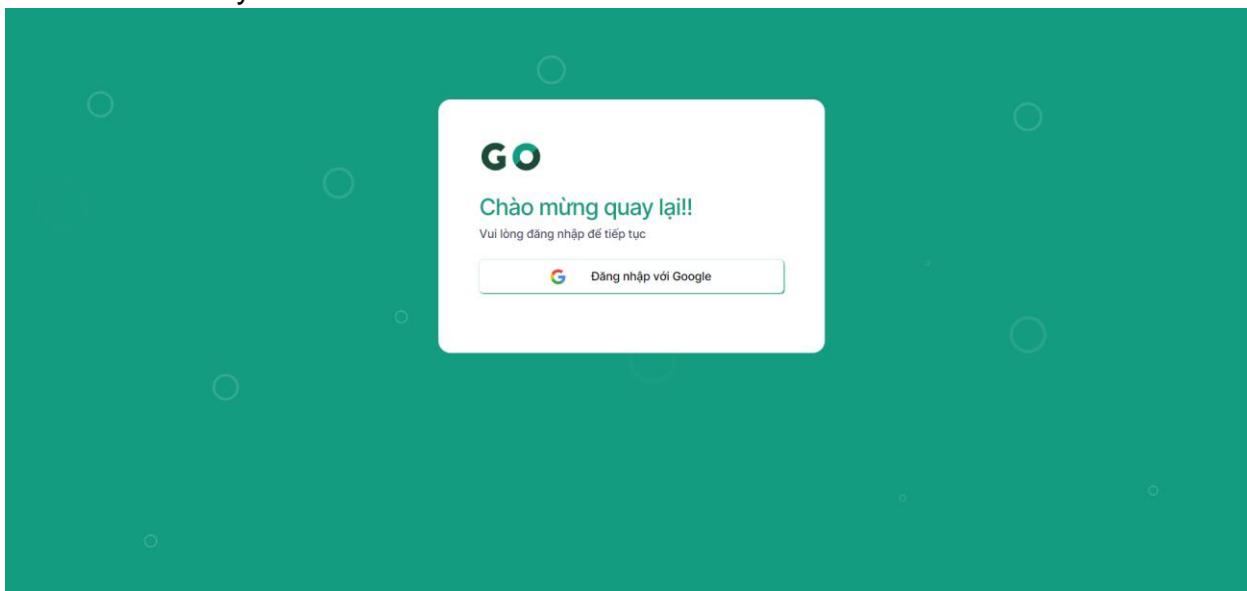


Figure 9 - <Admin> Login

- Function Details:
 - The actor click on “Đăng nhập với Google” button
 - The admin enters their email and password for their Google account.
- Success:** Redirect to dashboard page

Fail: Return an error message “Đăng nhập thất bại”

3.2.2 <Admin> View Farmstay List

- Function trigger: The actor requests to view farmstay list
- Function description: This function allows the actor to view farmstay list.
- Screen layout:

MÃ	TÊN	CHỦ SỞ HỮU	ĐÁNH GIÁ	TRẠNG THÁI	THAO TÁC
FR-000039	Hạnh Phúc	Nhung Lê	4.5	Dang hoat động	
FR-000038	demo	Lê Danh Trọng	4.5	Chưa kích hoạt	
FR-000037	ddww	Lê Danh Trọng	4.5	Chưa kích hoạt	
FR-000036	Bến Tre Farmstay	Nhung Le	4.5	Chưa kích hoạt	

Figure 10 - <Admin> View Farmstay List

- Function Details:
 - The actor click on “Danh sách farmstays” item menu in “Farmstay” tab
 - The system shows farmstays list.

3.2.3 <Admin> View Farmstay Detail

- Function trigger: The actor requests to view farmstay detail
- Function description: This function allows the actor to view farmstay detail
- Screen layout:

Figure 11 - <Admin> View Farmstay Detail

- **Function Details:**

- The actor click on “Xem chi tiết” icon in “Thao tác” field
- The system shows all information of farmstay

3.2.4 <Admin> Review Farmstay

- Function trigger: The actor receives a request to review a farmstay.
- Function description: This function allows the actor to review a farmstay created by a host.
- Screen layout:

Figure 12 - <Admin> Approve/Reject Farmstay

- **Function Details:**

- The actor clicks on “Phê duyệt” icon button in “Phê duyệt farmstay” tab
- **Case 1:** The actor clicks on “Phê duyệt” button
The system will update the status of this farmstay into “Đang hoạt động” if
Success: Shows the message “Cập nhật thành công” and send email for host
- **Case 2:** The actor clicks on “Từ chối” button
The actor enter reason reject in “Từ chối farmstay” popup
- **Case 2.1:** The actor clicks on “Hủy” button
The system will return to farmstay detail screen
- **Case 2.2:** The actor clicks on “Xác nhận” button
The system will update the status of this farmstay into “Chưa kích hoạt” if
Success: Shows the message “Cập nhật thành công” and send email for host

3.2.5 <Admin> Search Farmstay

- Function trigger: The actor requests to search farmstay
- Function description: This function allows the actor to search farmstay
- Screen layout:

The screenshot shows the GOFARM application's admin interface for managing farmstays. At the top, there's a navigation bar with links for 'Tổng quan', 'Tài khoản', 'Farmstay' (which is the active tab), 'Đơn hàng', 'Đơn hàng giải ngắn', 'Feedback', and 'Quản lý danh mục'. Below the navigation is a search bar with placeholder 'Tìm kiếm theo tên' and a 'Tìm kiếm' button. There are also dropdown filters for 'Trạng thái' and 'Ngày tạo gần nhất'. The main content area is titled 'Danh Sách Farmstay' and displays a table of farmstays. The table columns are: MÃ (ID), TÊN (Name), CHỦ SỞ HỮU (Owner), ĐÁNH GIÁ (Price), TRẠNG THÁI (Status), and THAO TÁC (Actions). The data in the table is as follows:

MÃ	TÊN	CHỦ SỞ HỮU	ĐÁNH GIÁ	TRẠNG THÁI	THAO TÁC
FR-000039	Hạnh Phúc	Nhung Le	100.000đ	Đang hoạt động	
FR-000038	demo	Lê Danh Trọng	100.000đ	Chưa kích hoạt	
FR-000037	ddww	Lê Danh Trọng	100.000đ	Chưa kích hoạt	
FR-000036	Bến Tre Farmstay	Nhung Le	100.000đ	Chưa kích hoạt	

Figure 13 - <Admin> Search Farmstay

- Function Details:
 - The actor enters a value into search bar
The system will show the following result if:
Success: Shows all search results on the farmstay list
Fail: Shows message “Không có dữ liệu”

3.2.6 <Admin> View Activity Category List

- Function trigger: The actor requests to view activity category list
- Function description: This function allows the actor to view activity category list.
- Screen layout:

MÃ	THẺ	MÔ TẢ	LÃN CẤP NHẬT CUỐI	TRANG THÁI	THAO TÁC
TG-000016	Tham quan và khám phá	Tham quan	2023-04-02 5:54 PM (3 ngày trước)	Đang sử dụng	
TG-000015	Thưởng thức ẩm thực	Thưởng thức ẩm thực	2023-04-02 5:54 PM (3 ngày trước)	Đang sử dụng	
TG-000014	Thể thao ngoài trời	Thể thao ngoài trời	2023-04-02 5:54 PM (3 ngày trước)	Đang sử dụng	
TG-000004	Thể thao ngoài trời	Thể thao ngoài trời là hoạt độn...	2023-03-23 11:32 PM (13 ngày trước)	Đang sử dụng	

Figure 14 - <Admin> View Activity Category List

- Function Details:
 - The actor click on “Thẻ mô tả” item menu in “Quản lí danh mục” tab
 - The system shows activity category list.

3.2.7 <Admin> Create Activity Category

- Function trigger: The actor requests to create a new activity category
- Function description: This function allows the actor to create activity category.
- Screen layout:

Figure 15 - <Admin> - Create Activity Category

- Function Details:
 - The actor clicks on “Thẻ mô tả” dropdown in “Quản lí danh mục” tab

- The actor clicks on “Thêm mới” button.
 - The system will show “Thêm thẻ mô tả” popup with the following data input: “Tên: textbox, “Mô tả” textbox
 - The actor fills all textbox and clicks “Xác nhận” button
- Success:** Stores the information, then shows the message “Tạo mới thành công” and redirects to activity category list.
- Fail:** Return an error message “Tạo mới thất bại”

3.2.8 <Admin> Update Activity Category

- Function trigger: The actor requests to update an activity category
- Function description: This function allows the actor to update activity category.
- Screen layout:

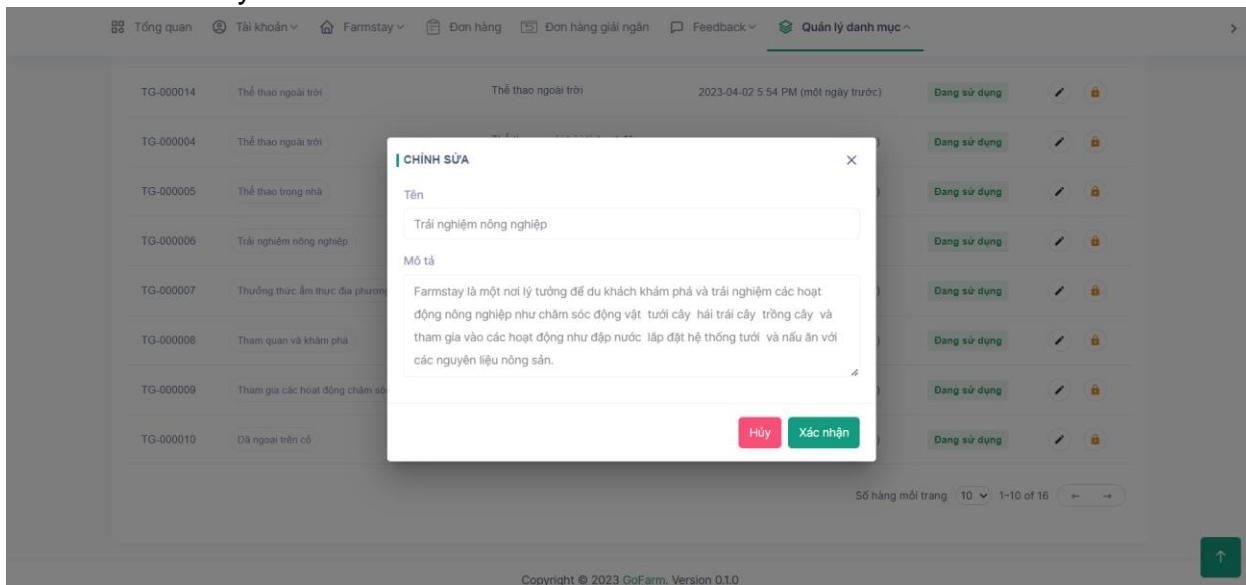


Figure 16 - <Admin> Update Activity Category

- Function Details:
 - The actor clicks on “Chỉnh sửa” icon in “Thao tác” field.
 - The system will show “Chỉnh sửa” popup with the following data input: “Tên: textbox, “Mô tả” textbox
 - The actor changes some values on the popup and clicks “Xác nhận” button
- Success:** Stores the information, then shows the message “Cập nhật thành công” and redirects to activity category list.
- Fail:** Return an error message “Cập nhật thất bại”

3.2.9 <Admin> Lock Activity Category

- Function trigger: The actor requests to lock an activity category
- Function description: This function allows the actor to lock activity category.
- Screen layout:

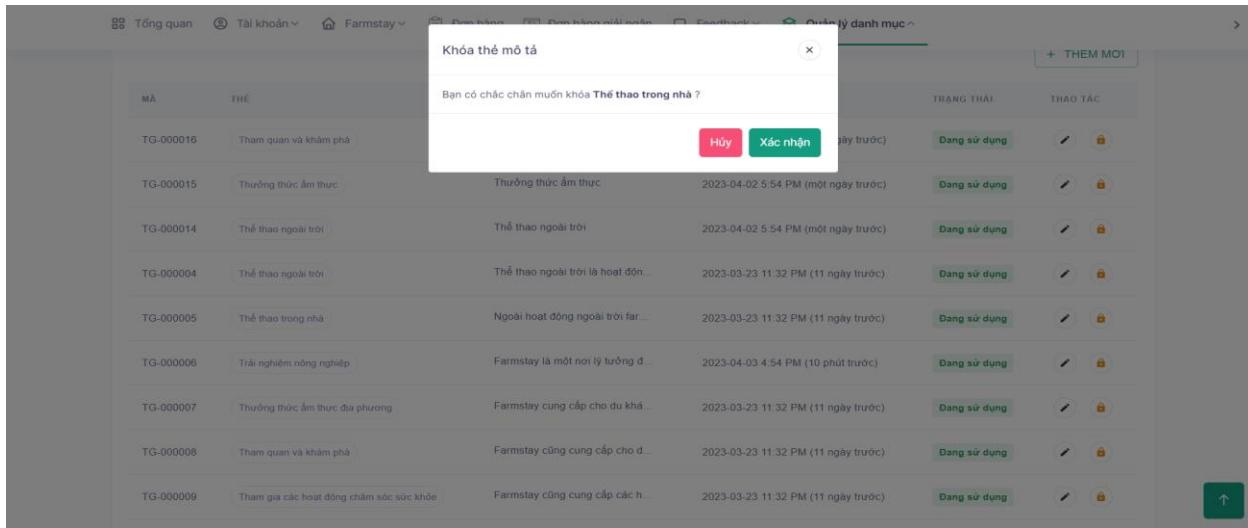


Figure 17 - <Admin> Lock Activity Category

- Function Details:

- The actor clicks on “Khóa” icon in “Thao tác” field.
- The system will show “Khóa thẻ mô tả” popup
- The actor clicks on “Xác nhận” button

Success: Shows the message “Cập nhật thành công” and redirects to activity category list.

Fail: Return an error message “Cập nhật thất bại”

3.2.10 <Admin> Search Activity Category

- Function trigger: The actor requests to search activity category
- Function description: This function allows the actor to search activity category
- Screen layout:

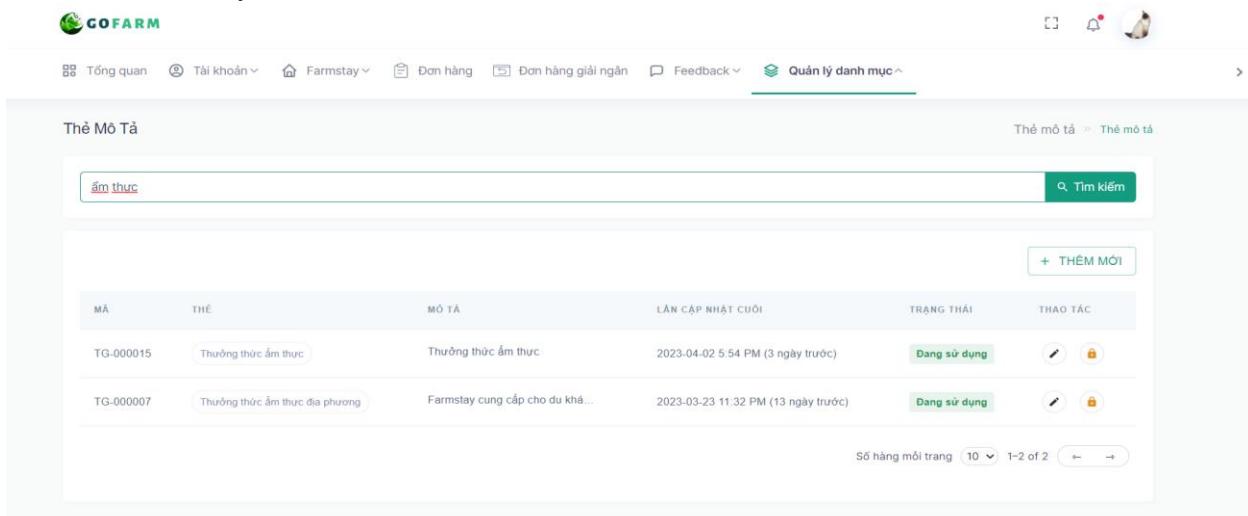


Figure 18 - <Admin> Search Activity Category

- Function Details:

- The actor enters a value into search bar
The system will show the following result if:
Success: Shows all search results on the activity category list
Fail: Shows message “Không có dữ liệu”

3.2.11 <Admin> View Room Category List

- Function trigger: The actor requests to view room category list
- Function description: This function allows the actor to view room category list.
- Screen layout:

MÃ	TÊN	MÔ TẢ	LẦN CẬP NHẬT CUỐI	TRẠNG THÁI	THAO TÁC
RC-000017	Phòng Ocean	Phòng Ocean là nơi hoàn hảo ...	-	Đang sử dụng	
RC-000016	Phòng truyền thống	Nếu bạn muốn trải nghiệm pho...	-	Đang sử dụng	
RC-000015	Phòng Garden	Với cửa sổ nhìn ra khu vườn x...	-	Đang sử dụng	
RC-000013	Phòng Queen	Truyền tải về đẳng cấp và sang...	2023-03-28 9:47 AM (8 ngày trước)	Đang sử dụng	

Figure 19 - <Admin> View Room Category List

- Function Details:
 - The actor click on “Loại phòng” item menu in “Quản lí danh mục” tab
 - The system shows room category list.

3.2.12 <Admin> Create Room Category

- Function trigger: The actor requests to create a new room category
- Function description: This function allows the actor to create room category.
- Screen layout:

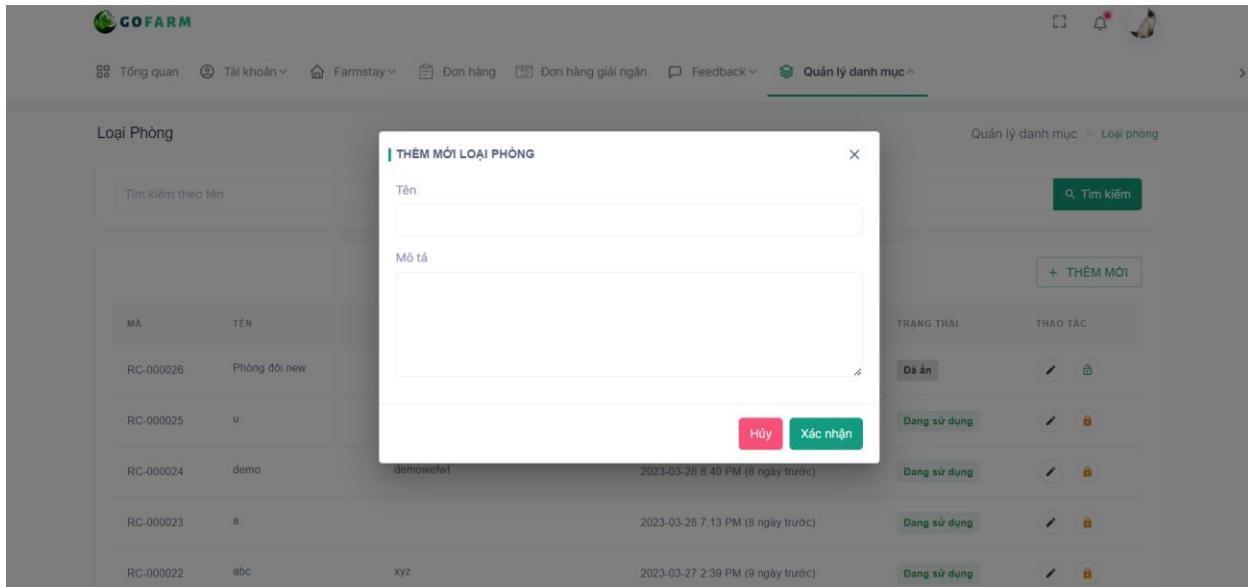


Figure 20 - <Admin> Create Room Category

- Function Details:
 - The actor clicks on “Loại phòng” dropdown in “Quản lí danh mục” tab
 - The actor clicks on “Thêm mới” button.
 - The system will show “Thêm mới loại phòng” popup with the following data input:
 - “Tên”: textbox, “Mô tả”: textbox
 - The actor fills all textbox and clicks “Xác nhận” button

Success: Stores the information, then shows the message “Tạo mới thành công” and redirects to activity category list.
Fail: Return an error message “Tạo mới thất bại”

3.2.13 <Admin> Update Room Category

- Function trigger: The actor requests to update an room category
- Function description: This function allows the actor to update room category.
- Screen layout:

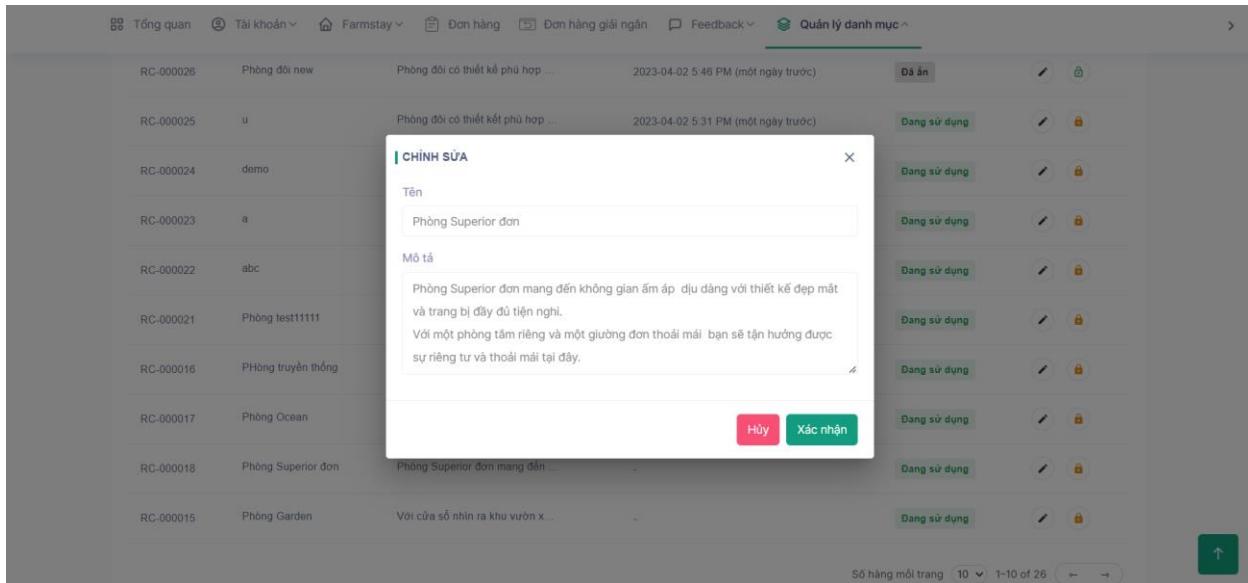


Figure 21 - <Admin> Update Room Category

- Function Details:
 - The actor clicks on “Chỉnh sửa” icon in “Thao tác” field.
 - The system will show “Chỉnh sửa” popup with the following data input: “Tên: textbox, “Mô tả” textbox
 - The actor changes some values on the popup and clicks “Xác nhận” button
 - Success:** Stores the information, then shows the message “Cập nhật thành công” and redirects to activity category list.
 - Fail:** Return an error message “Cập nhật thất bại”

3.2.14 <Admin> Lock Room Category

- Function trigger: The actor requests to lock an room category
- Function description: This function allows the actor to lock room category.
- Screen layout:

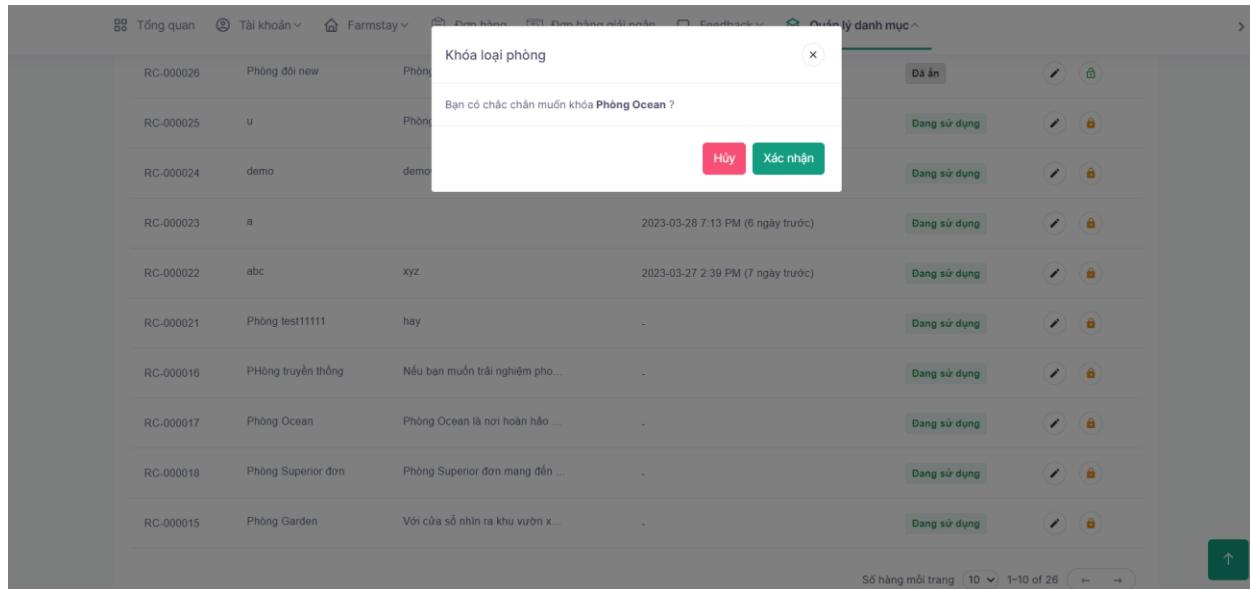


Figure 22 - <Admin> Lock Room Category

- Function Details:

- The actor clicks on “Khóa” icon in “Thao tác” field.
- The system will show “Khóa phòng” popup
- The actor clicks on “Xác nhận” button

Success: Shows the message “Cập nhật thành công” and redirects to activity category list.

Fail: Return an error message “Cập nhật thất bại”

3.2.15 <Admin> Search Room Category

- Function trigger: The actor requests to search room category
- Function description: This function allows the actor to search room category
- Screen layout:

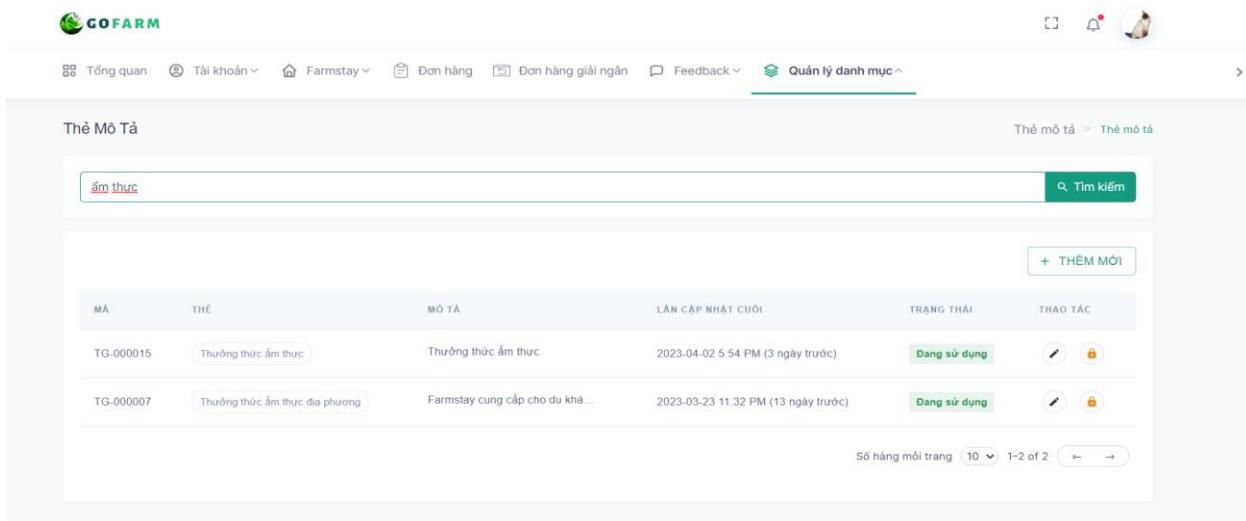


Figure 23 - <Admin> Search Room Category

- Function Details:
 - The actor enters a value into search bar
The system will show the following result if:
Success: Shows all search results on the room category list
Fail: Shows message “Không có dữ liệu”

3.2.16 <Admin> View Host List

- Function trigger: The actor requests to view host list
- Function description: This function allows the actor to view host list.
- Screen layout:

MÃ	HỌ VÀ TÊN	EMAIL	SỐ BIÊN THOẠI	TRẠNG THÁI	THAO TÁC
HO-000304	Nhung Lê	mynhungle0201@gmail.com		Dang hoạt động	
HO-000302	Nhung Lê	mynhungle0201@gmail.com		Dang hoạt động	
HO-000265	gofarm service	gofarm.service@gmail.com		Dang hoạt động	
HO-000075	Nhung Lê	mynhungle0201@gmail.com		Dang hoạt động	

Figure 24 - <Admin> View Host List

- Function Details:
 - The actor click on “Chủ farmstay” item menu in “Tài khoản” tab

- The system shows host list.

3.2.17 <Admin> View Host Detail

- Function trigger: The actor requests to view host detail
- Function description: This function allows the actor to view host detail
- Screen layout:

Figure 25 - <Admin> View Host Detail

- Function Details:
 - The actor click on “Xem chi tiết” icon in “Thao tác” field
 - The system shows all information of host

3.2.18 <Admin> Search Host

- Function trigger: The actor requests to search host
- Function description: This function allows the actor to search host
- Screen layout:

MÃ	HỌ VÀ TÊN	EMAIL	SỐ ĐIỆN THOẠI	TRẠNG THÁI	THAO TÁC
HO-000304	Nhung Le	mynhungle0201@gmail.com		Đang hoạt động	
HO-000302	Nhung Le	mynhungle0201@gmail.com		Đang hoạt động	
HO-000075	Nhung Le	mynhungle0201@gmail.com		Đang hoạt động	

Figure 26 - <Admin> Search Host

- Function Details:
 - The actor enters a value into search bar
The system will show the following result if:
 - Success:** Shows all search results on the host list
 - Fail:** Shows message “Không có dữ liệu”

3.2.19 <Admin> View Customer List

- Function trigger: The actor requests to view customer list
- Function description: This function allows the actor to view customer list.
- Screen layout:

MÃ	HỌ VÀ TÊN	EMAIL	SỐ ĐIỆN THOẠI	TRẠNG THÁI	THAO TÁC
CU-000351	Thao Nguyen	thuthao12140122@gmail.com		Đang hoạt động	
CU-000192	Trần Ngọc Thảo	tranhuongyb123@gmail.com	0988009001	Đang hoạt động	
CU-000111	Nguyen Thi Thu Thao (K14 HOM)	thaontse141101@fpt.edu.vn		Đang hoạt động	
CU-000057	Hai Anh	nguyendanghaianh123@gmail.com		Đang hoạt động	

Figure 27 - <Admin> View Customer List

- Function Details:

- The actor clicks on “Khách du lịch” item menu in “Tài khoản” tab
- The system shows customer list.

3.2.20 <Admin> View Customer Detail

- Function trigger: The actor requests to view customer detail
- Function description: This function allows the actor to view customer detail
- Screen layout:

Chi Tiết Tài Khoản CU-000057

Avatar	Hai Anh
Sđt:	
Email:	nguyendanghaianh123@gmail.com

Thông tin

Thông tin cơ bản

Họ và tên :	Ngày sinh :
Hai Anh	
Họ :	Tên :
Anh	Nguyen
Số điện thoại :	Email :
-	nguyendanghaianh123@gmail.com
Địa chỉ :	

Figure 28 - <Admin> View Customer Detail

- Function Details:

- The actor click on “Xem chi tiết” icon in “Thao tác” field

- The system shows all information of customer

3.2.21 <Admin> Search Customer

- Function trigger: The actor requests to search customer
- Function description: This function allows the actor to search customer
- Screen layout:

MÃ	HỌ VÀ TÊN	EMAIL	SỐ ĐIỆN THOẠI	TRẠNG THÁI	THAO TÁC
CU-000057	Hai Anh	nguyendanghaianh123@gmail.com		Đang hoạt động	

Figure 29 - <Admin> Search Customer

- Function Details:
 - The actor enters a value into search bar
The system will show the following result if:
 - Success:** Shows all search results on the customer list
 - Fail:** Shows message “Không có dữ liệu”

3.2.22 <Admin> View Order List

- Function trigger: The actor requests to view order list
- Function description: This function allows the actor to view order list.
- Screen layout:

MÃ ĐƠN	KHÁCH HÀNG	TỔNG TIỀN	THỜI GIAN TẠO ĐƠN	TRẠNG THÁI	THAO TÁC
OD-000124	Danh Trong Lê (Fieldsmedal)	65.000 đ	2023-04-15 8:19 PM (19 giờ trước)	Chờ xác nhận	
OD-000123	Danh Trong Lê (Fieldsmedal)	200.000 đ	2023-04-15 8:01 PM (19 giờ trước)	Thất bại	
OD-000122	Danh Trong Lê (Fieldsmedal)	90.000 đ	2023-04-15 7:57 PM (19 giờ trước)	Chờ xác nhận	
OD-000121	Danh Trong Lê (Fieldsmedal)	2.000.000 đ	2023-04-15 7:52 PM (19 giờ trước)	Chờ xác nhận	

Figure 30 - <Admin> View Order List

- Function Details:
 - The actor clicks on “Đơn hàng” tab
 - The system shows order list.

3.2.23 <Admin> View Order Detail

- Function trigger: The actor requests to view order detail
- Function description: This function allows the actor to view order detail
- Screen layout:

Mã	Loại	Tên	Ngày	Giá
R-000005	Phòng	Phòng ngủ mặt trăng	23/05/2023	5.000.000 đ
R-000021	Phòng	Phòng Tình Nhấn	15/04/2023	1.500.000 đ
R-000021	Phòng	Phòng Tình Nhấn	21/04/2023	1.500.000 đ
		Tổng tiền		3.000.000 đ

Figure 31 - <Admin> View Order Detail

- Function Details:
 - The actor click on “Xem chi tiết” icon in “Thao tác” field

- The system shows all information of order

3.2.24 <Admin> Search Order

- Function trigger: The actor requests to search order
- Function description: This function allows the actor to search order
- Screen layout:

MÃ ĐƠN	KHÁCH HÀNG	TỔNG TIỀN	THỜI GIAN TẠO ĐƠN	TRẠNG THÁI	THAO TÁC
OD-000123	Danh Trọng Lê (Fieldsmedal)	200.000 đ	2023-04-15 8:01 PM (19 giờ trước)	Thất bại	

Số hàng mỗi trang: 10 | 1-1 of 1 | ← →

Figure 32 - <Admin> Search Order

- Function Details:
 - The actor enters a value into search bar
The system will show the following result if:
 - Success:** Shows all search results on the order list
 - Fail:** Shows message “Không có dữ liệu”

3.2.25 <Admin> View Feedback List

- Function trigger: The actor requests to view feedback list
- Function description: This function allows the actor to view feedback list.
- Screen layout:

MÃ	ĐƠN HÀNG	NGƯỜI PHẢN HỒI	NỘI DUNG	TRẠNG THÁI	THAO TÁC
FB-000025	OR-000034	Hai Anh	sach sê	Đã đăng	
FB-000023	OR-000034	Le Doan My Nhung 123	sach sê	Đã đăng	
FB-000022	OR-000034	Le Doan My Nhung 123	sach sê	Đã đăng	
FB-000021	OR-000035	Le Doan My Nhung 123	sach sê	Đã đăng	

Figure 33 - <Admin> View Feedback List

- Function Details:

- The actor clicks on “Danh sách feedback” item menu in “Feedback” tab
- The system shows feedback list.

3.2.26 <Admin> View Feedback Detail

- Function trigger: The actor requests to view feedback detail
- Function description: This function allows the actor to view feedback detail
- Screen layout:

MÃ	ĐƠN HÀNG	NGƯỜI PHẢN HỒI	NỘI DUNG	TRẠNG THÁI	THAO TÁC
FB-000025	OR-000034	Hai Anh	sach sê	Đã đăng	
FB-000023	OR-000034	unknown	sach sê	Đã đăng	
FB-000022	OR-000034	unknown	sach sê	Đã đăng	
FB-000021	OR-000031	unknown	sach sê	Đã đăng	
FB-000020	OR-000004	unknown	sach sê	Đã đăng	

Figure 34 - <Admin> View Feedback Detail

- Function Details:

- The actor click on “Xem chi tiết” icon in “Thao tác” field

- The system shows all information of feedback

3.2.27 <Admin> View Disbursement List

- Function trigger: The actor requests to view disbursement list
- Function description: This function allows the actor to view disbursement list.
- Screen layout:

MÃ	MÃ ĐƠN HÀNG	SỐ TIỀN GIẢI NGÂN	PHẦN LOẠI	NGÀY KHỞI TẠO	TRANG THÁI	THAO TÁC
WR-000011	OR-000113	9.000 đ	Thanh toán đơn kết thúc.	2023-04-23 12:00 AM (3 ngày trước)	Đã giải ngân	(x)
WR-000010	OR-000090	5.670.000 đ	Thanh toán đơn kết thúc.	2023-04-10 10:51 PM (15 ngày trước)	Đã giải ngân	(x)
WR-000009	OR-000085	423.000 đ	Thanh toán đơn kết thúc.	2023-03-03 10:00 PM (2 tháng trước)	Đang xử lý	(x) (l)

Figure 35 - <Admin> View Disbursement List

- Function Details:
 - The actor clicks on “Đơn hàng giải ngân” tab
 - The system shows feedback list.

3.2.28 <Admin> Confirm Disbursement Order

- Function trigger: The actor requests to confirm disbursement order
- Function description: This function allows the actor to confirm disbursement order
- Screen layout:

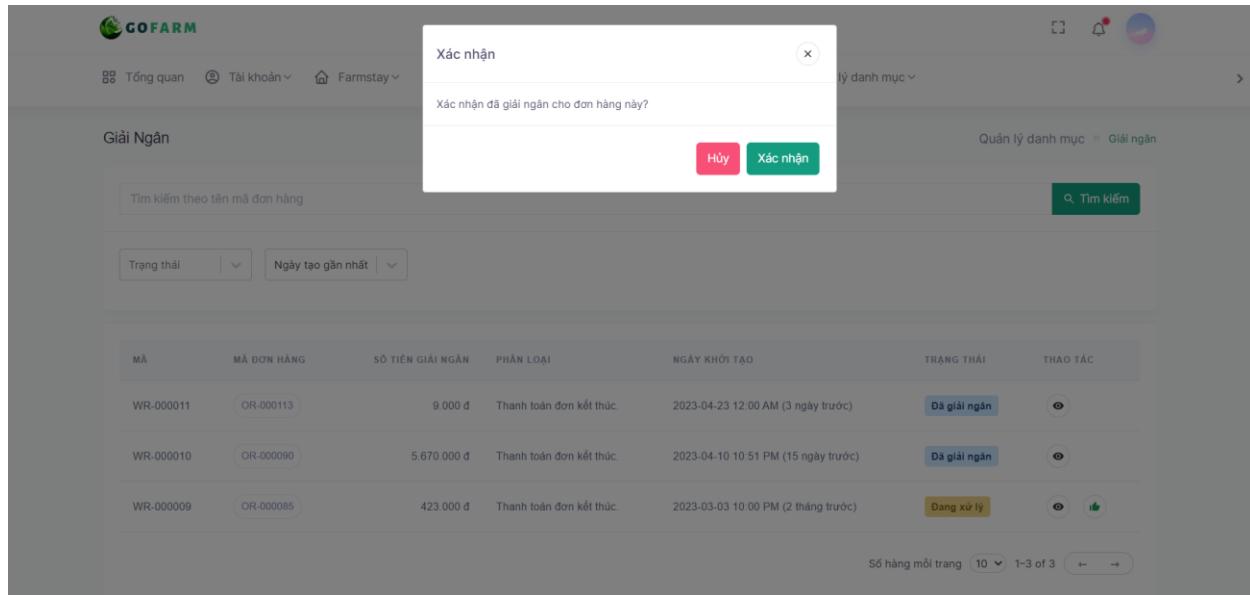


Figure 36 - <Admin> Confirm Disbursement Order

- Function Details:

- The actor clicks on “Đơn hàng giải ngân” tab and then clicks on “Xác nhận” icon
- “Xác nhận” popup is displayed, the actor clicks on “Xác nhận” button in “Xác nhận” popup
- The status changed to “Đã giải ngân” status.

3.3 Web Application for Host

3.3.1 <Host> Signup

- Function trigger: The actor requests to sign up by Google account
- Function description: This function allows the actor to sign up.
- Screen layout:

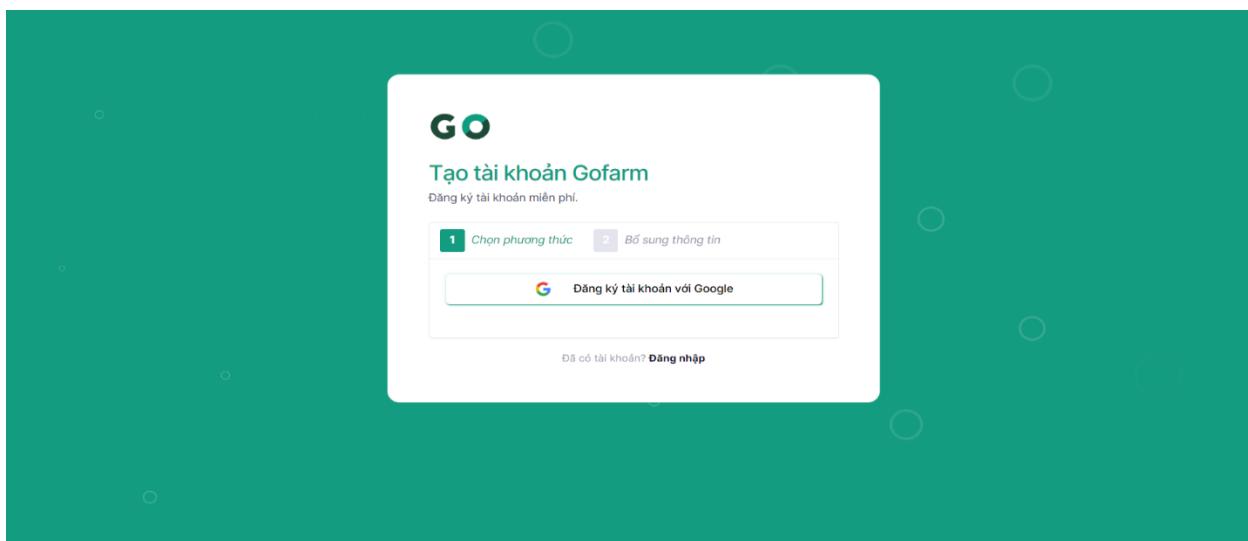


Figure 37 - <Admin> Sign up

- Function Details:
 - The actor click on “Đăng ký với Google” button
 - The admin enters their email and password for their Google account.**Success:** Redirect to dashboard page
Fail: Return an error message “Tài khoản đã tồn tại”

3.3.2 <Host> Signin

- Function trigger: The actor requests to sign in by Google account
- Function description: This function allows the actor to sign in.
- Screen layout:

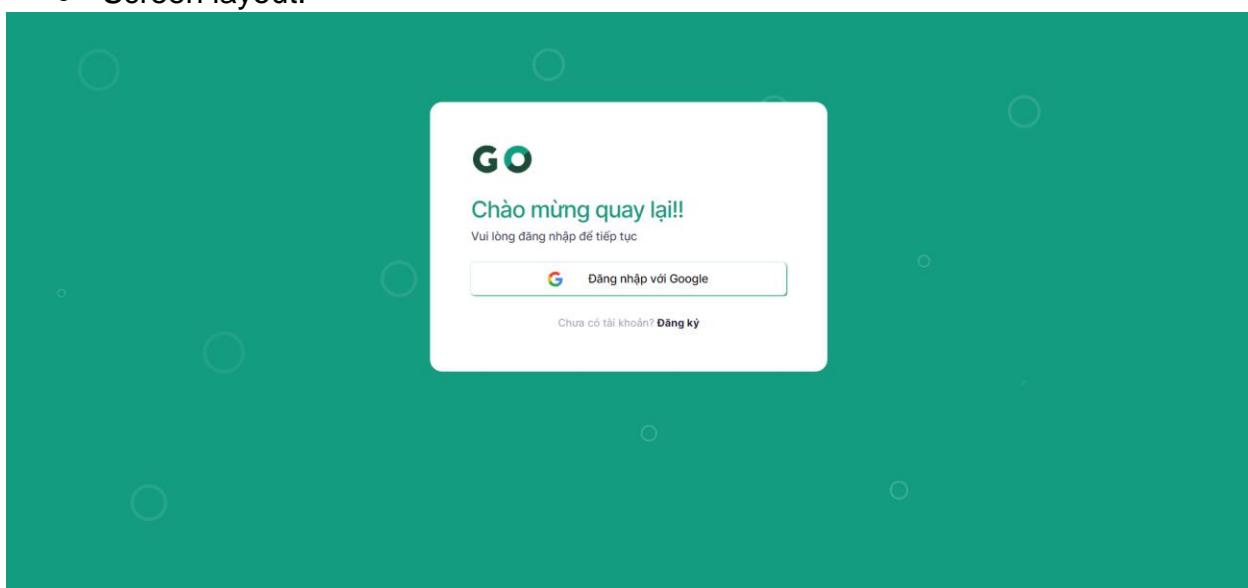


Figure 38 - <Admin> Sign in

- Function Details:
 - The actor click on “Đăng nhập với Google” button

- The admin enters their email and password for their Google account.

Success: Redirect to dashboard page

Fail: Return an error message “Đăng nhập thất bại”

3.3.3 <Host> View Profile

- Function trigger: The actor requests to view profile
- Function description: This function allows the actor to view profile.
- Screen layout:

Figure 39 - <Host> View Profile

- Function Details:

- The actor clicks on user menu, then select “Hồ sơ cá nhân” menu item
- The system will show profile screen

3.3.4 <Host> Update Profile

- Function trigger: The actor requests to update profile
- Function description: This function allows the actor to update profile.
- Screen layout:

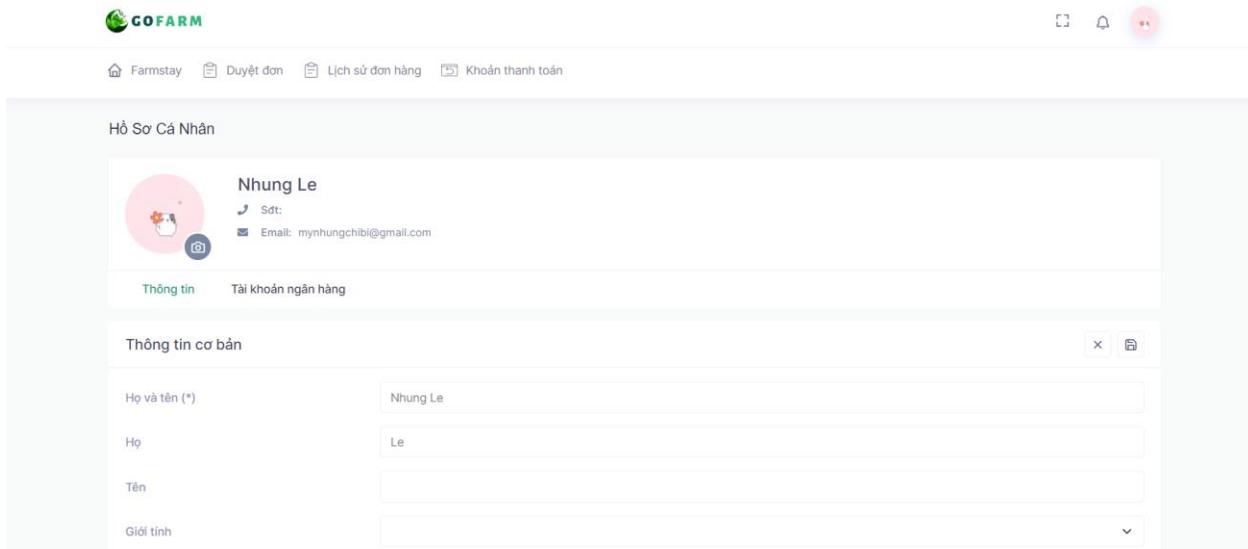


Figure 40 - <Host> Update Profile

- Function Details:

- The actor clicks on “Cập nhật” icon in “Thông tin cơ bản” card. The textboxes are enabled for host to enter data.
- The actor clicks on “Lưu” button

Success: Stores the information, then shows the message “Cập nhật thành công”

Fail: Return an error message “Cập nhật thất bại”

3.3.5 <Host> Create Farmstay

- Function trigger: The actor requests to create farmstay
- Function description: This function allows the actor to create farmstay.
- Screen layout:

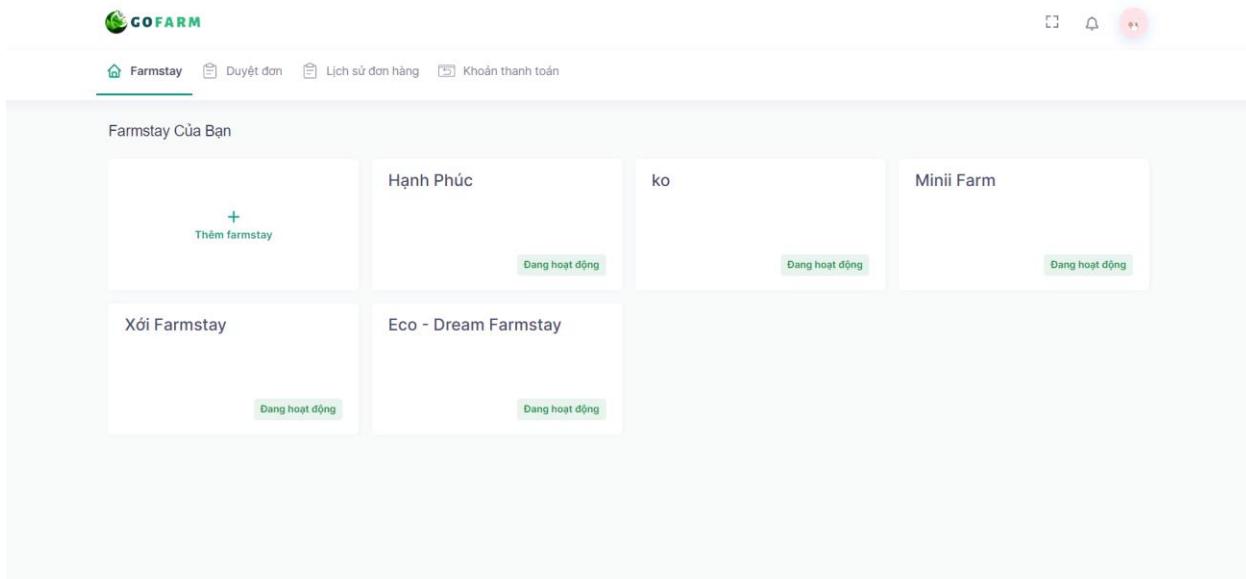


Figure 41 - <Host> Create Farmstay

- Function Details:
 - The actor clicks on “Thêm farmstay” button in “Farsmtay” tab
 - Fill all information about farmstay and clicks on “Hoàn thành” button
 Success: Stores the information, then shows the message “Thêm mới farmstay thành công”

Fail: Return an error message “Tạo mới thất bại”

3.3.6 <Host> Send Approval Request

- Function trigger: The actor requests to send approval request
- Function description: This function allows the actor to send approval request
- Screen layout:

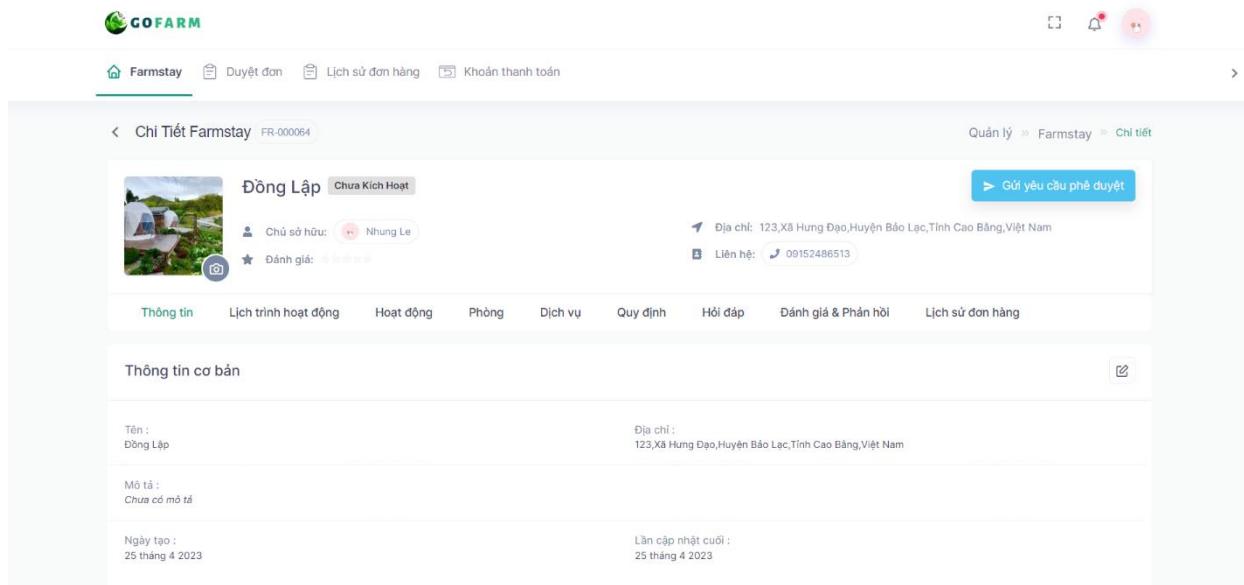


Figure 42 - <Host> Send Approval Request

- Function Details:

- The actor clicks on “Gửi yêu cầu phê duyệt” button in farmstay detail page
 - “Gửi yêu cầu” popup is displayed, the actor clicks on “Xác nhận” button
 - The status changed to “Đang phê duyệt” status
- Success:** Shows the message “Gửi yêu cầu phê duyệt thành công”
Fail: Return an error message “Cập nhật thất bại”

3.3.7 <Host> View Reject Request

- Function trigger: The actor requests to view reject request
- Function description: This function allows the actor to view reject request
- Screen layout:

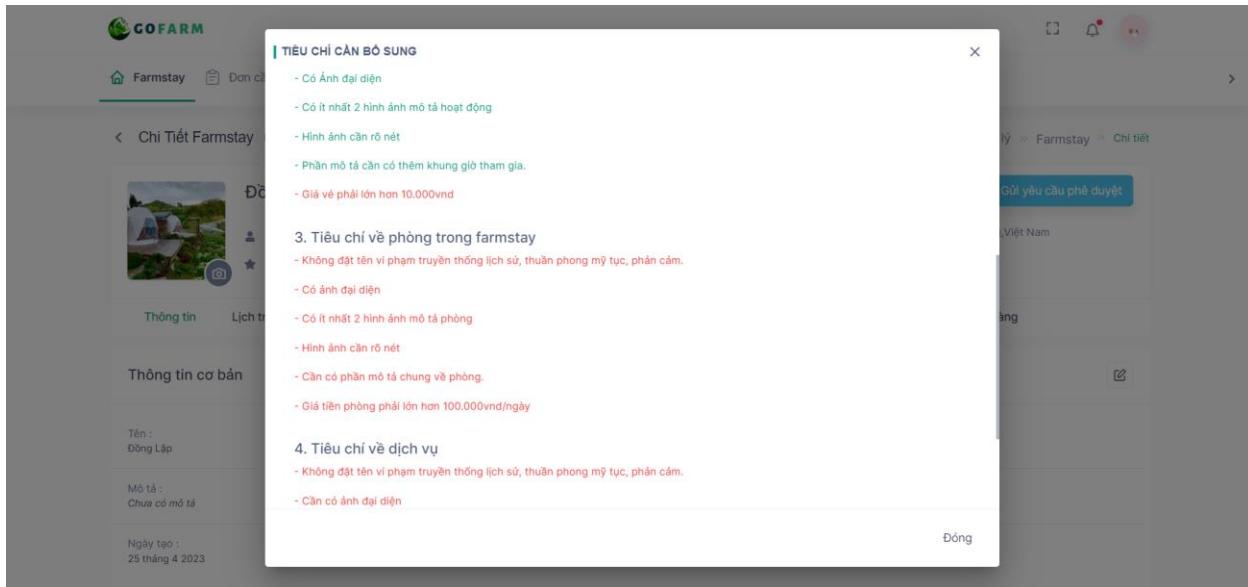


Figure 43 - <Host> View Reject Request

- Function Details:

- The actor clicks on “Comment” icon in farmstay detail page
- “Tiêu chí cần bỏ sung” popup is displayed
- The actor view all criteria that does not appropriate and clicks on “Đóng” button

3.3.8 <Host> Update Farmstay

- Function trigger: The actor requests to update farmstay
- Function description: This function allows the actor to update farmstay.
- Screen layout:

The screenshot shows a modal window titled "CẬP NHẬT THÔNG TIN" (Update Information). It contains the following fields:

- Tên farmstay *: Eco - Dream Farmstay
- Mô tả: A large text area describing the farmstay's activities and offerings.
- Địa chỉ: Address details including:
 - * Quốc gia: Việt Nam
 - * Tỉnh/Thành phố: Tỉnh Tuyên Quang
 - * Quận/Huyện: Huyện Chiêm Hóa
 - * Phường/Xã: Xã Phúc Sơn
- Chi tiết: A text input field containing "abc".

At the bottom right are "Hủy" (Cancel) and "Lưu lại" (Save) buttons.

Figure 44 - <Host> Update Farmstay

- Function Details:

- The actor clicks on “Cập nhật” icon in “Thông tin cơ bản” tab
 - Fill all information about farmstay and clicks on “Lưu lại” button
- Success:** Stores the information, then shows the message “Cập nhật thành công”
- Fail:** Return an error message “Cập nhật thất bại”

3.3.9 <Host> View Farmstay Detail

- Function trigger: The actor requests to view farmstay detail
- Function description: This function allows the actor to view farmstay detail
- Screen layout:

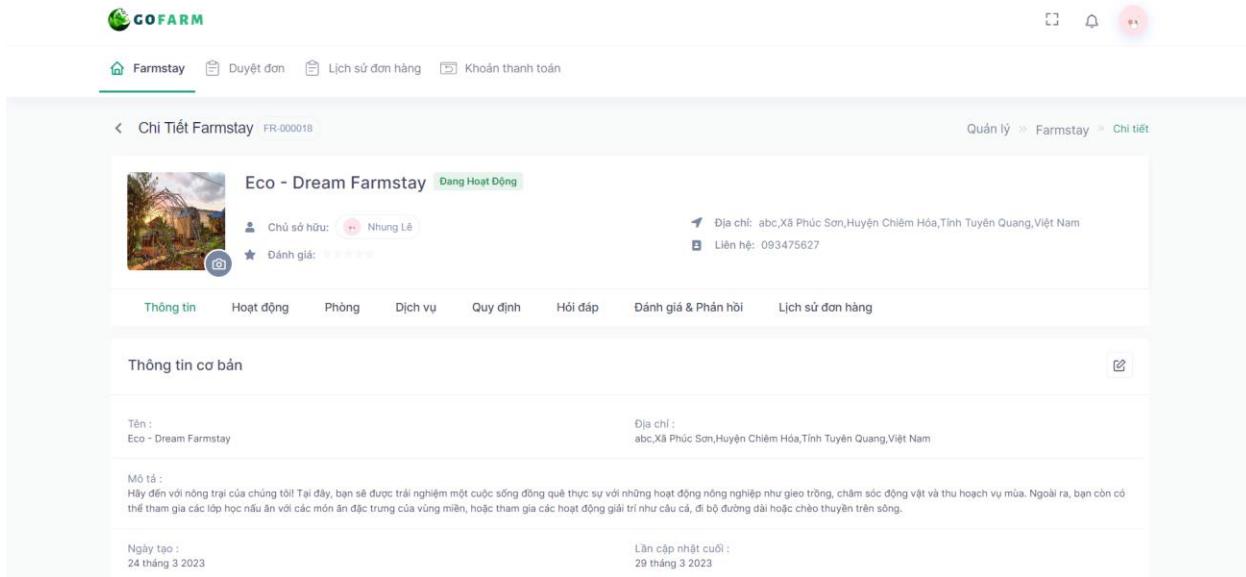


Figure 45 - <Host> View Farmstay Detail

- Function Details:
 - The actor clicks on a farmstay in "Farmstay" tab.
 - The application redirects to farmstay detail page and shows information of farmstay

3.3.10 <Host> Update Image Farmstay

- Function trigger: The actor requests to update image farmstay
- Function description: This function allows the actor to update image farmstay
- Screen layout:

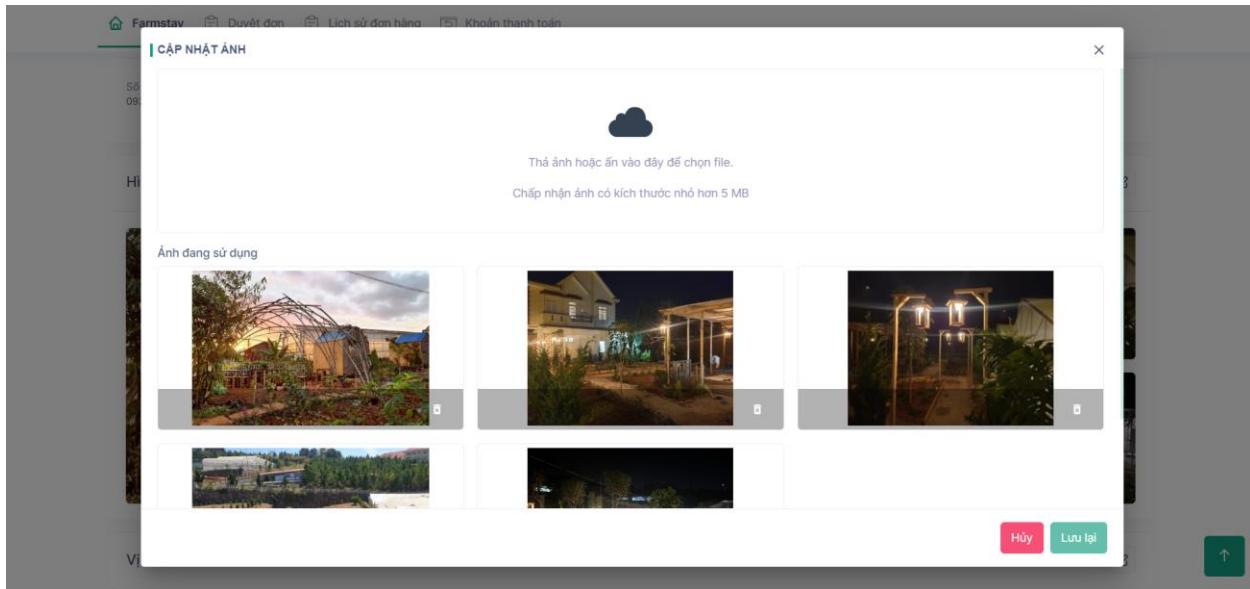


Figure 46 - <Host> Update Image Farmstay

- Function Details:
 - The actor clicks on “Cập nhật” icon in “Hình ảnh” card
 - Fill all information about farmstay and clicks on “Lưu lại” button

Success: Stores the information, then shows the message “Lưu ảnh thành công”

Fail: Return an error message “Kích thước file lớn hơn cho phép.”

3.3.11 <Host> Update Location Farmstay

- Function trigger: The actor requests to update location farmstay
- Function description: This function allows the actor to update location farmstay
- Screen layout:

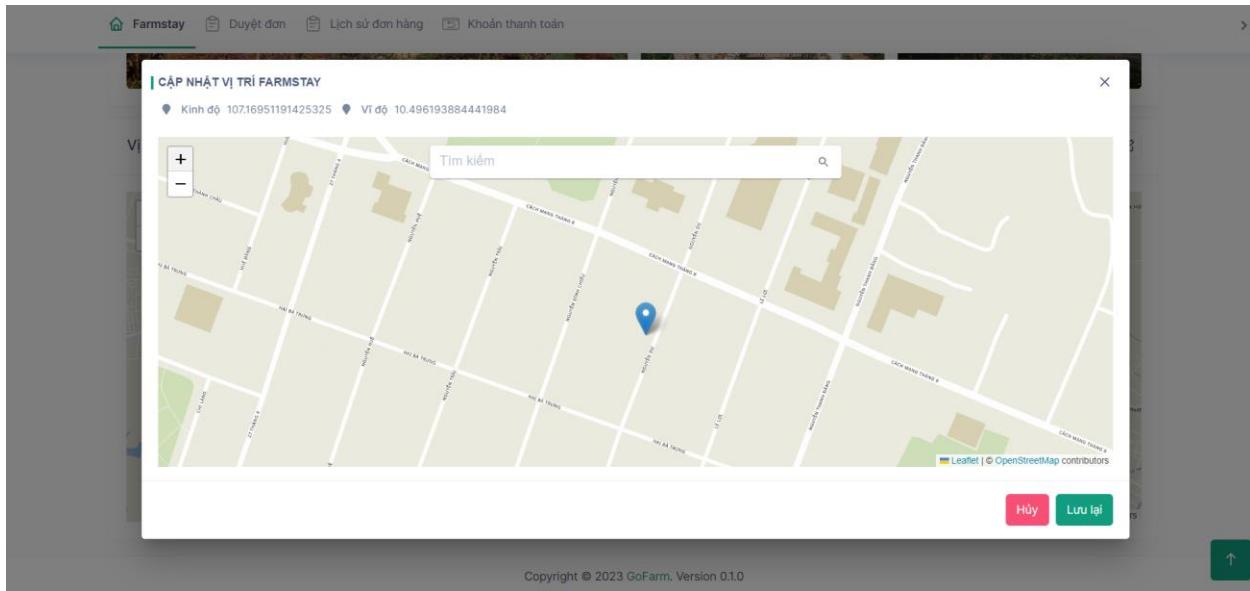


Figure 47 - <Host> Update Location Farmstay

- Function Details:
 - The actor clicks on “Cập nhật” icon in “Vị trí” card
 - Update location for farmstay and clicks on “Lưu lại” button
- Success:** Stores the information, then shows the message “Cập nhật thành công”
- Fail:** Return an error message “Cập nhật thất bại.”

3.3.12 <Host> Create Activity

- Function trigger: The actor requests to create activity
- Function description: This function allows the actor to create activity
- Screen layout:

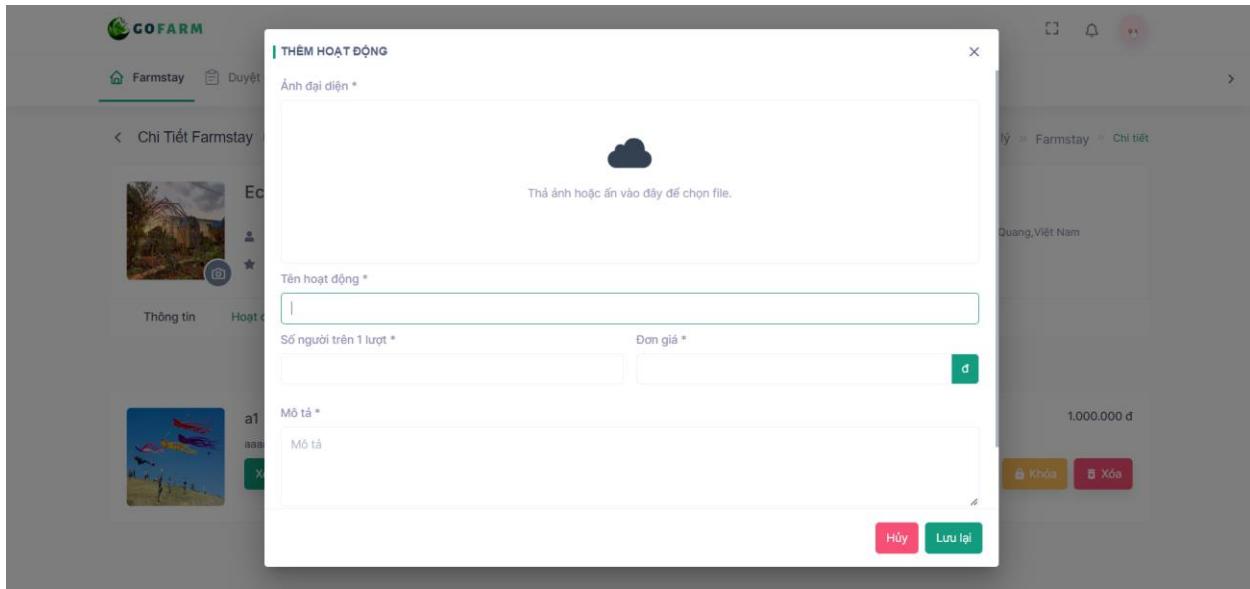


Figure 48 - <Host> Create Activity

- Function Details:
 - The actor clicks on “Thêm hoạt động mới” button in “Hoạt động” tab
 - The system will show the following information:
 - “Ảnh đại diện”: photo upload
 - “Tên hoạt động”: input text
 - “Số người trên 1 lượt”: input text
 - “Đơn giá”: input text
 - “Mô tả”: input text
 - Clicks on “Lưu lại” button
 - Success:** Stores the information, then shows the message “Tạo mới thành công”
 - Fail:** Return an error message “Tạo mới thất bại.”

3.3.13 <Host> Lock Activity

- Function trigger: The actor requests to lock activity
- Function description: This function allows the actor to lock activity
- Screen layout:

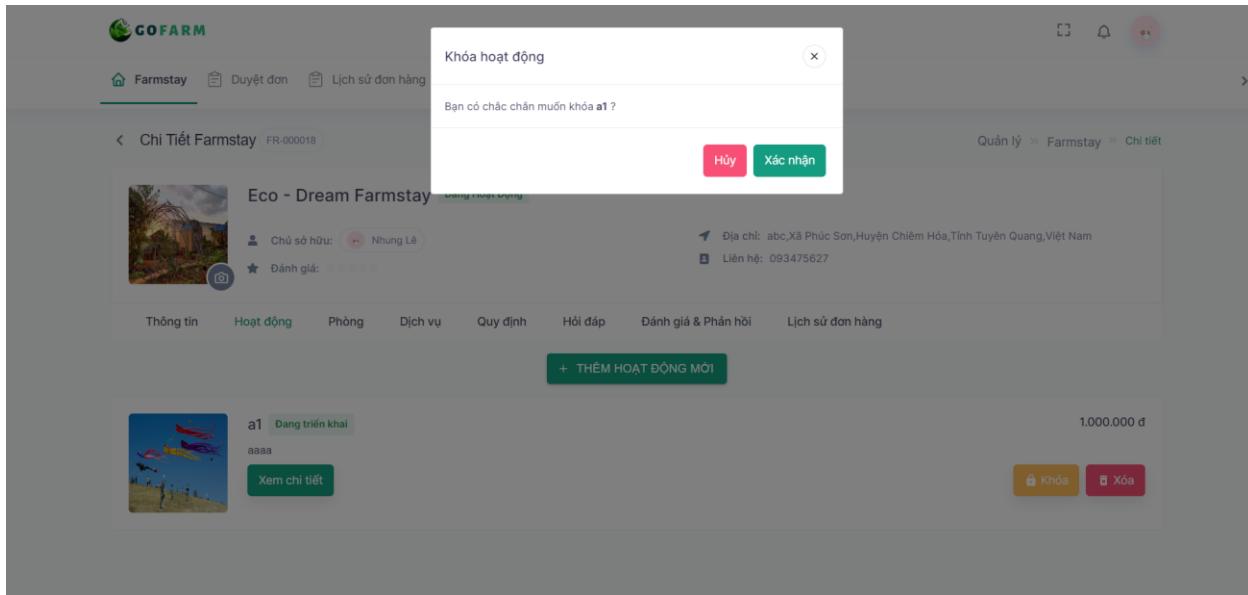


Figure 49 - <Host> Lock Activity

- Function Details:

- The actor clicks on “Khóa” button in “Hoạt động” tab
- “Khóa hoạt động” popup is displayed
- Clicks on “Xác nhận” button

Success: Stores the information, then shows the message “Cập nhật thành công”

Fail: Return an error message “Cập nhật thất bại.”

3.3.14 <Host> Unlock Activity

- Function trigger: The actor requests to unlock activity
- Function description: This function allows the actor to unlock activity
- Screen layout:

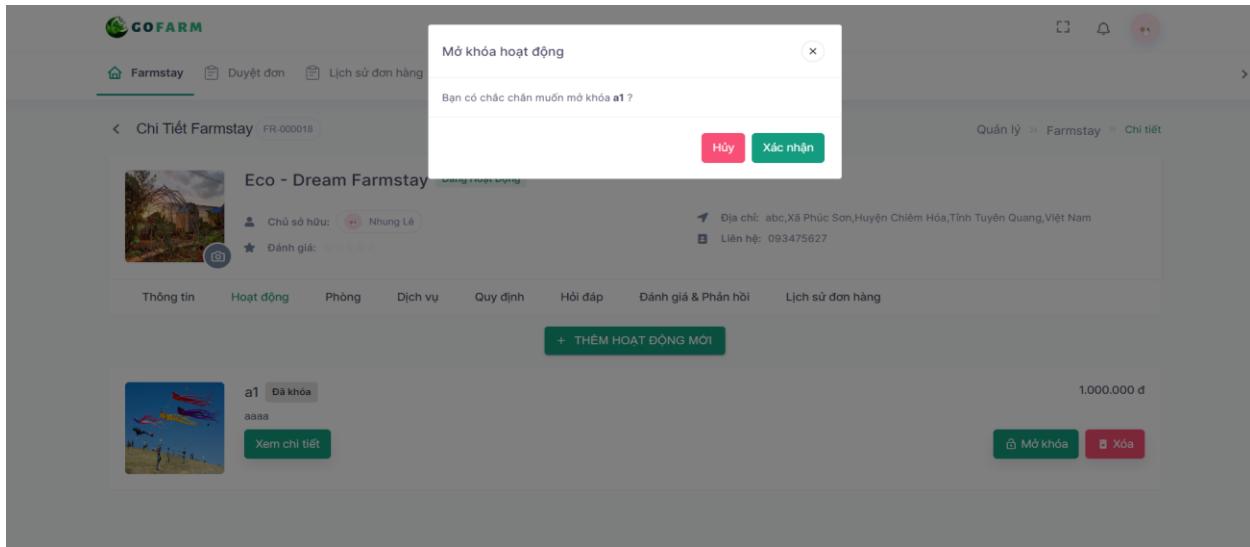


Figure 50 - <Host> Unlock Activity

- Function Details:

- The actor clicks on “Mở Khóa” button in “Hoạt động” tab
- “Mở khóa hoạt động” popup is displayed
- Clicks on “Xác nhận” button

Success: Stores the information, then shows the message “Cập nhật thành công”

Fail: Return an error message “Cập nhật thất bại.”

3.3.15 <Host> Delete Activity

- Function trigger: The actor requests to delete activity
- Function description: This function allows the actor to delete activity
- Screen layout:

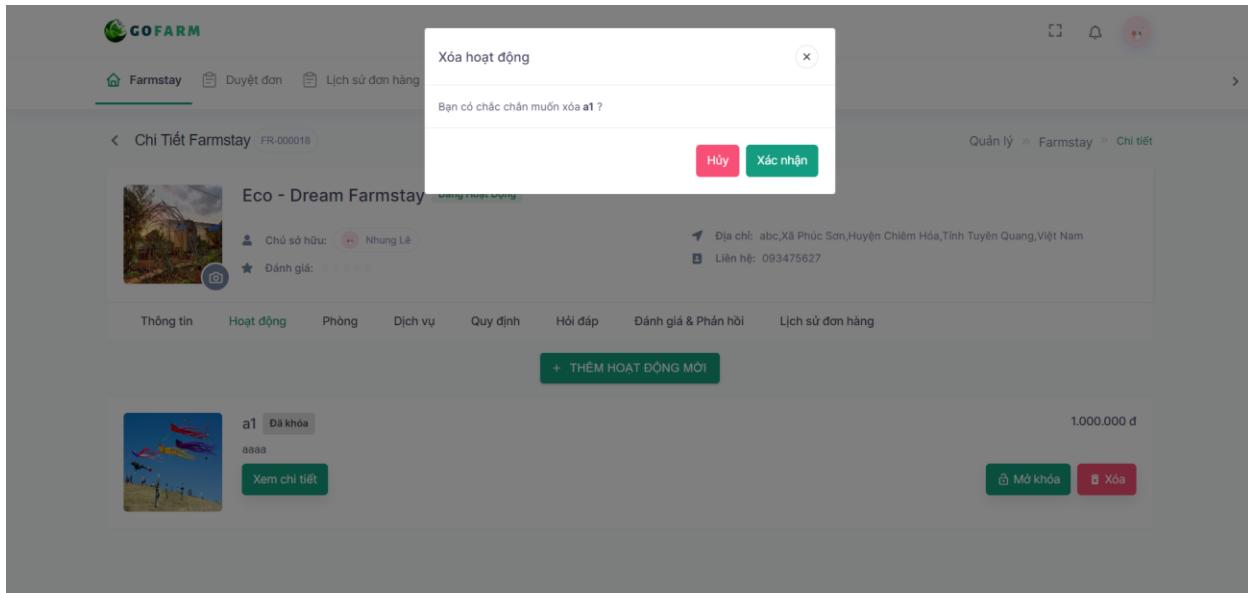


Figure 51 - <Host> Delete Activity

- Function Details:

- The actor clicks on “Xóa” button in “Hoạt động” tab
- “Xóa hoạt động” popup is displayed
- Clicks on “Xác nhận” button

Success: Stores the information, then shows the message “Xóa thành công”

Fail: Return an error message “Xóa thất bại.”

3.3.16 <Host> View Schedule of Farmstay

- Function trigger: The actor requests to view schedule of farmstay
- Function description: This function allows the actor to view schedule farmstay
- Screen layout:

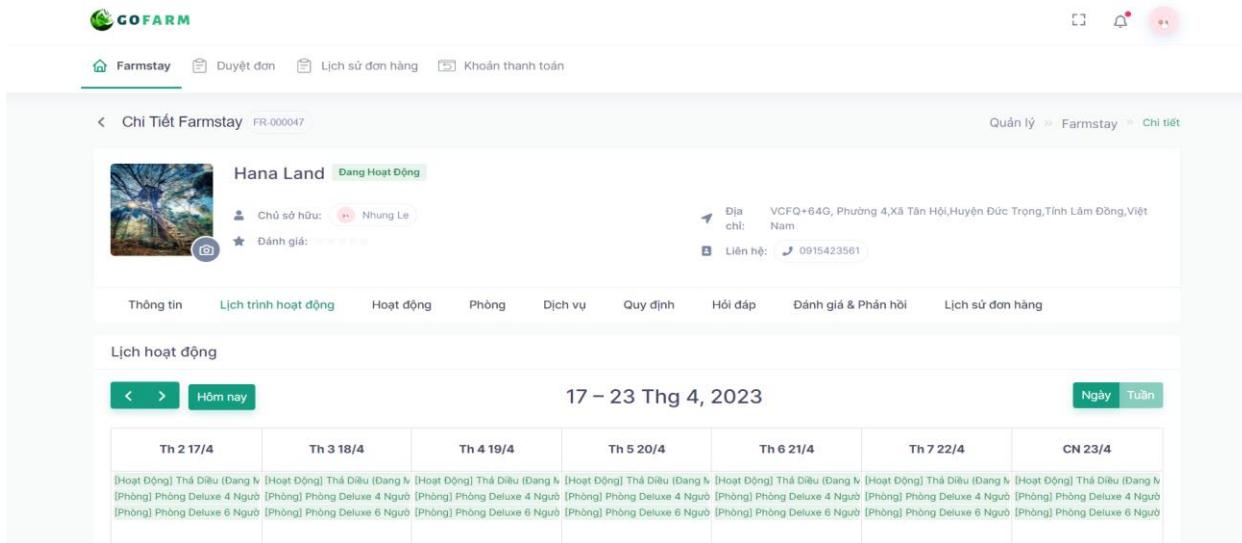


Figure 52 - <Host> View Schedule Activity

- Function Details:
 - The actor clicks on “Lịch trình hoạt động” tab in farmstay detail page
 - The application redirects to schedule of farmstay and shows information about activity and room schedule

3.3.17 <Host> View Activity Detail

- Function trigger: The actor requests to view activity detail
- Function description: This function allows the actor to view activity detail
- Screen layout:

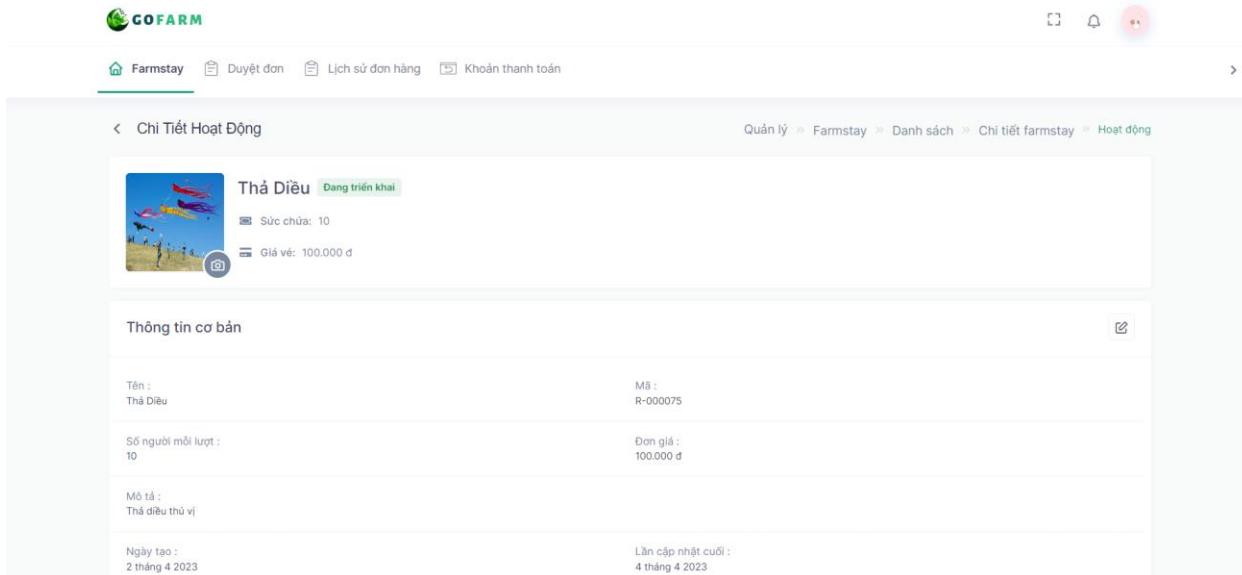


Figure 53 - <Host> View Activity Detail

- Function Details:
 - The actor clicks on “Xem chi tiết” button in "Hoạt động" tab.
 - The application redirects to activity detail and shows information of activity

3.3.18 <Host> Update Image Activity

- Function trigger: The actor requests to update image activity
- Function description: This function allows the actor to update image activity
- Screen layout:

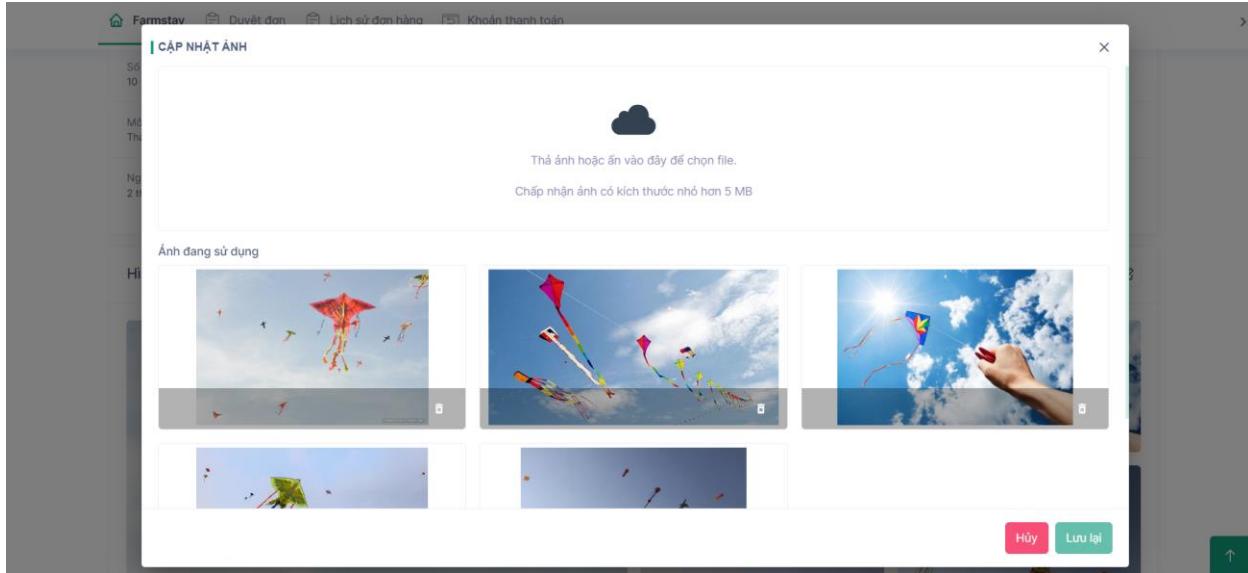


Figure 54 - <Host> Update Image Activity

- Function Details:
 - The actor clicks on “Cập nhật” icon in “Hình ảnh” card
 - Upload image and clicks on “Lưu lại” button
- Success:** Stores the information, then shows the message “Lưu ảnh thành công”
- Fail:** Return an error message “Kích thước file lớn hơn cho phép.”

3.3.19 <Host> Update Activity

- Function trigger: The actor requests to update activity
- Function description: This function allows the actor to update activity
- Screen layout:

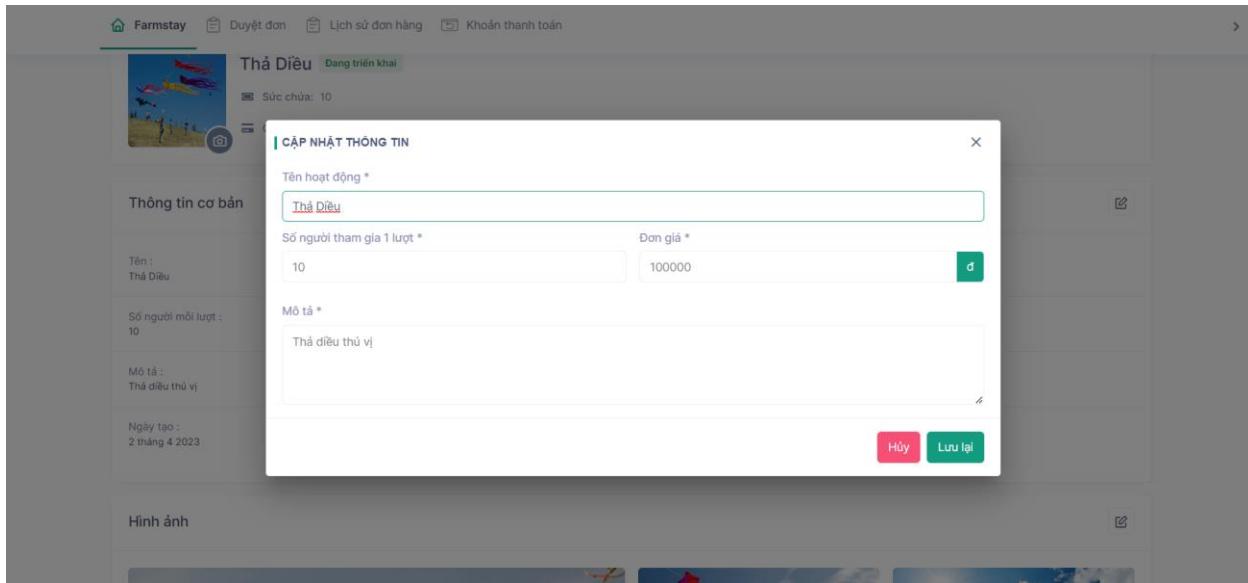


Figure 55 - <Host> Update Activity

- Function Details:
 - The actor clicks on “Cập nhật” icon in “Thông tin cơ bản” card
 - Fill all information and clicks on “Lưu lại” button**Success:** Stores the information, then shows the message “Cập nhật thành công”
Fail: Return an error message “Cập nhật thất bại.”

3.3.20 <Host> View Schedule of Activity

- Function trigger: The actor requests to view schedule of activity
- Function description: This function allows the actor to view schedule of activity
- Screen layout:

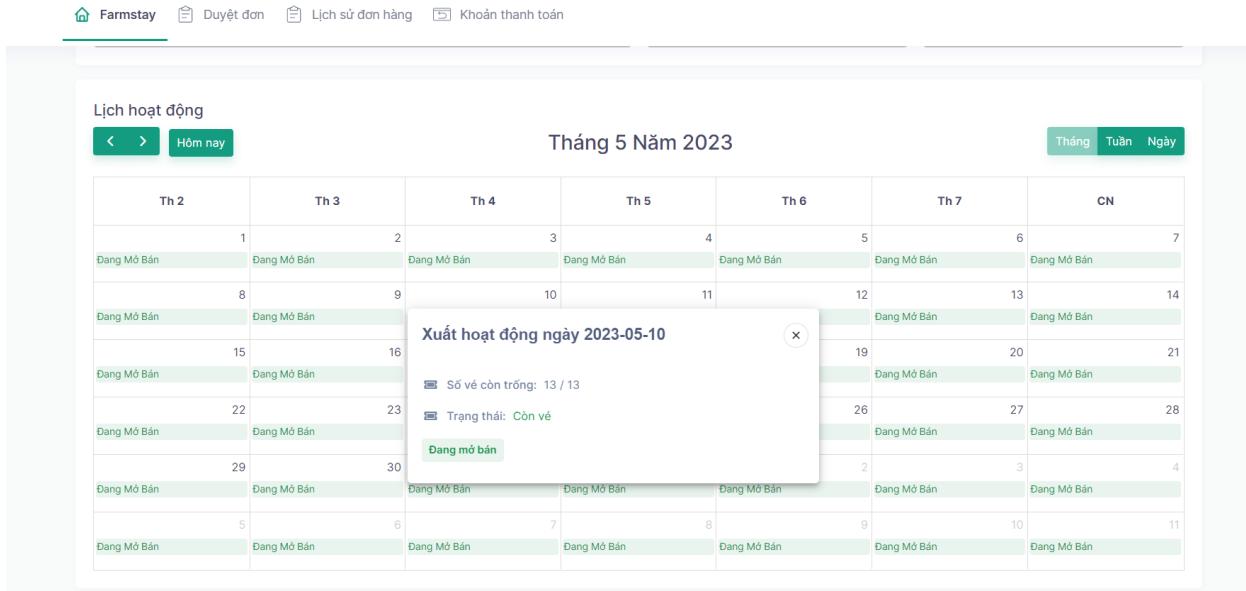


Figure 56 - <Host> View Schedule of Activity

- Function Details:
 - Click on "Xem chi tiết" button in an activity on the "Hoạt động" tab
 - Scroll down to view the schedule activity
 - The schedule is displayed with the following:
 "Previous" button
 "Next" button
 "Tháng" button
 "Tuần" button
 "Ngày" button
 Status in schedule

3.3.21 <Host> Create Room

- Function trigger: The actor requests to create room
- Function description: This function allows the actor to create room
- Screen layout:

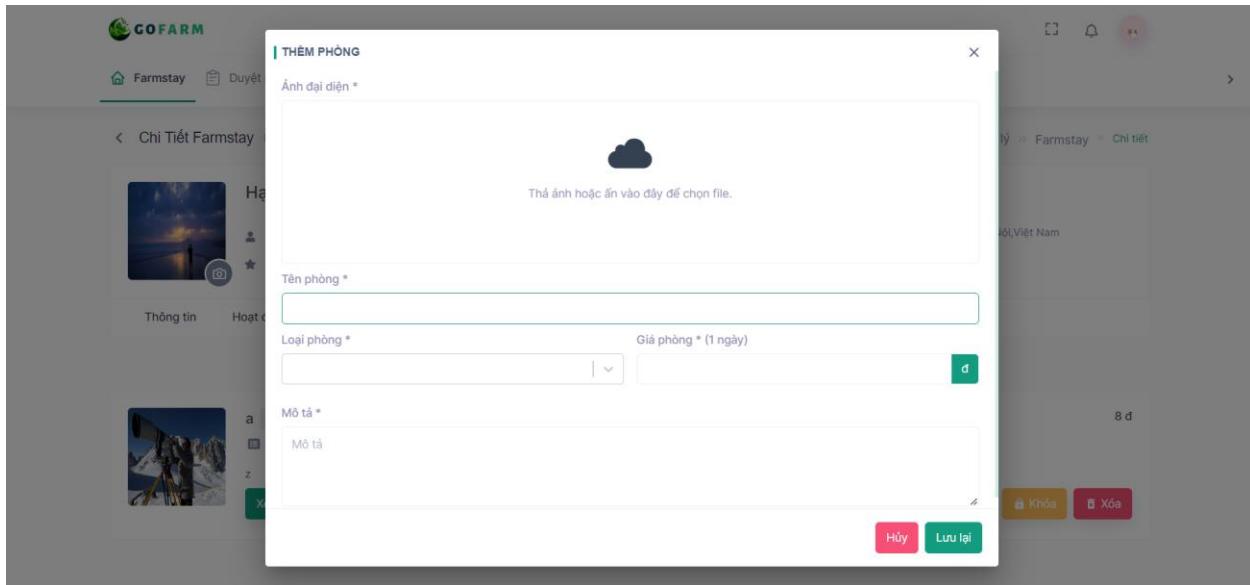


Figure 57 - <Host> Create Room

- Function Details:
 - The actor clicks on “Thêm phòng mới” button in “Hoạt động” tab
 - The system will show the following information:
 - “Ảnh đại diện”: photo upload
 - “Tên phòng”: input text
 - “Loại phòng”: dropdown
 - “Giá phòng”: input text
 - “Mô tả”: input text
 - Clicks on “Lưu lại” button

Success: Stores the information, then shows the message “Tạo mới thành công”

Fail: Return an error message “Tạo mới thất bại.”

3.3.22 <Host> Lock Room

- Function trigger: The actor requests to lock room
- Function description: This function allows the actor to lock room
- Screen layout:

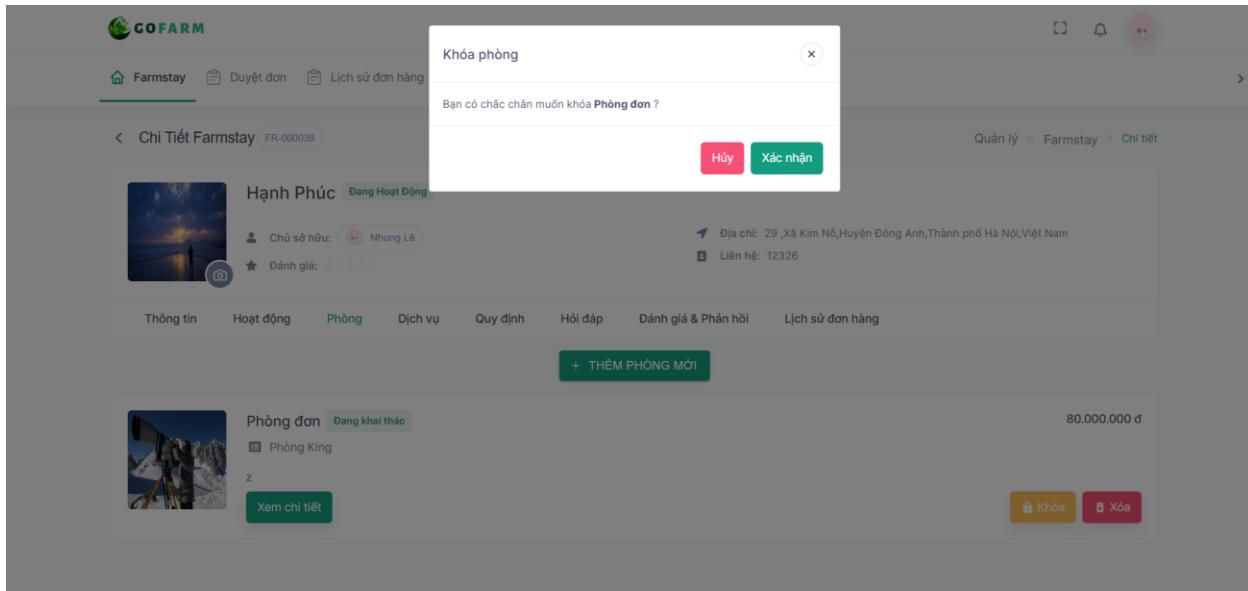


Figure 58 - <Host> Lock Room

- Function Details:

- The actor clicks on “Khóa” button in “Phòng” tab
- “Khóa phòng” popup is displayed
- Clicks on “Xác nhận” button

Success: Stores the information, then shows the message “Cập nhật thành công”

Fail: Return an error message “Cập nhật thất bại.”

3.3.23 <Host> Unlock Room

- Function trigger: The actor requests to unlock room
- Function description: This function allows the actor to unlock room
- Screen layout:

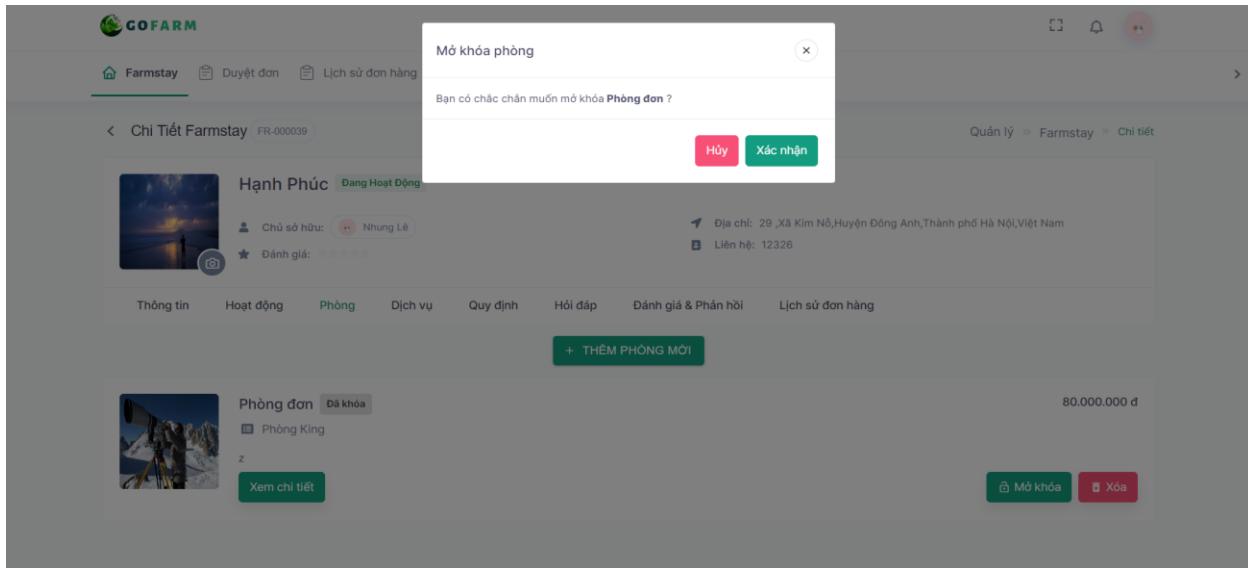


Figure 59 - <Host> Unlock Room

- Function Details:
 - The actor clicks on “Mở Khóa” button in “Phòng” tab
 - “Mở khóa phòng” popup is displayed
 - Clicks on “Xác nhận” button
 - Success:** Stores the information, then shows the message “Cập nhật thành công”
 - Fail:** Return an error message “Cập nhật thất bại.”

3.3.24 <Host> Delete Room

- Function trigger: The actor requests to delete room
- Function description: This function allows the actor to delete room
- Screen layout:

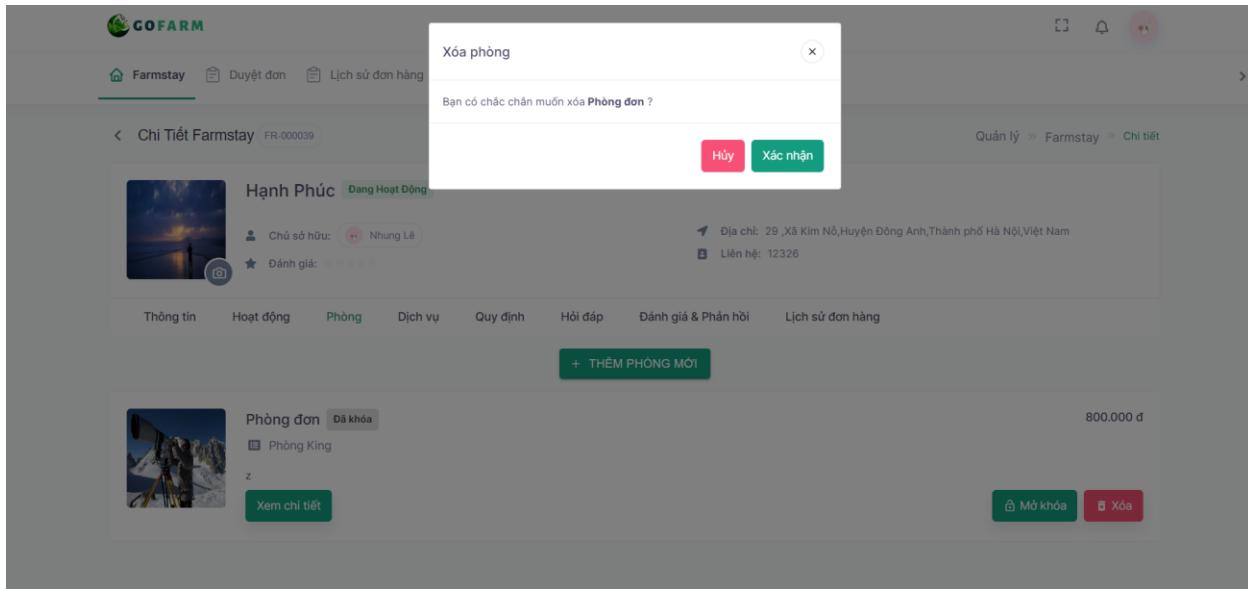


Figure 60 - <Host> Delete Activity

- Function Details:
 - The actor clicks on “Xóa” button in “Hoạt động” tab
 - “Xóa phòng” popup is displayed
 - Clicks on “Xác nhận” button
- Success:** Stores the information, then shows the message “Xóa thành công”
Fail: Return an error message “Xóa thất bại.”

3.3.25 <Host> View Room Detail

- Function trigger: The actor requests to view room detail
- Function description: This function allows the actor to view room detail
- Screen layout:

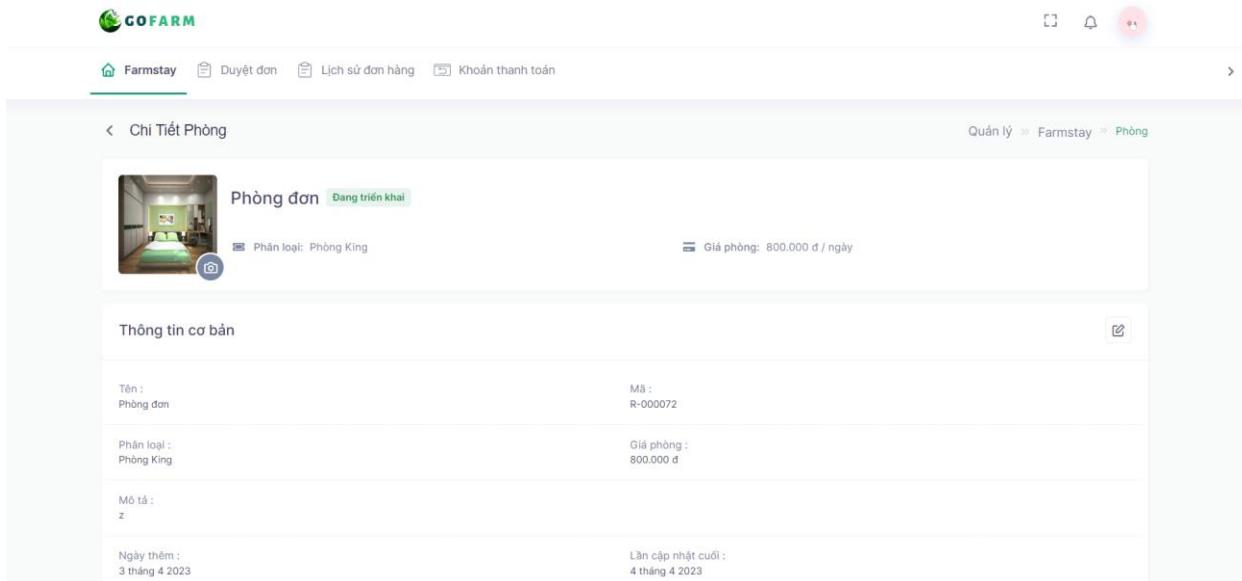


Figure 61 - <Host> View Room Detail

- Function Details:

- The actor clicks on “Xem chi tiết” button in "Phòng" tab.
- The application redirects to room detail and shows information of room

3.3.26 <Host> Update Image Room

- Function trigger: The actor requests to update image room
- Function description: This function allows the actor to update image room
- Screen layout:

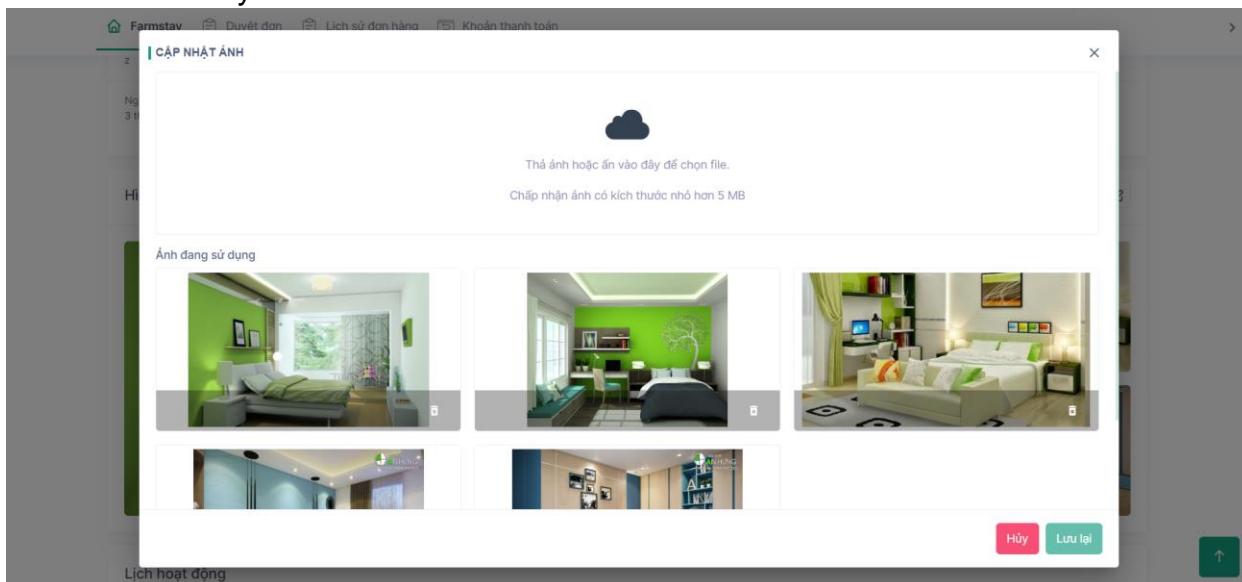


Figure 62 - <Host> Update Image Activity

- Function Details:

- The actor clicks on “Cập nhật” icon in “Hình ảnh” card
- Upload image and clicks on “Lưu lại” button

Success: Stores the information, then shows the message “Lưu ảnh thành công”

Fail: Return an error message “Kích thước file lớn hơn cho phép.”

3.3.27 <Host> Update Room

- Function trigger: The actor requests to update room
- Function description: This function allows the actor to update room
- Screen layout:

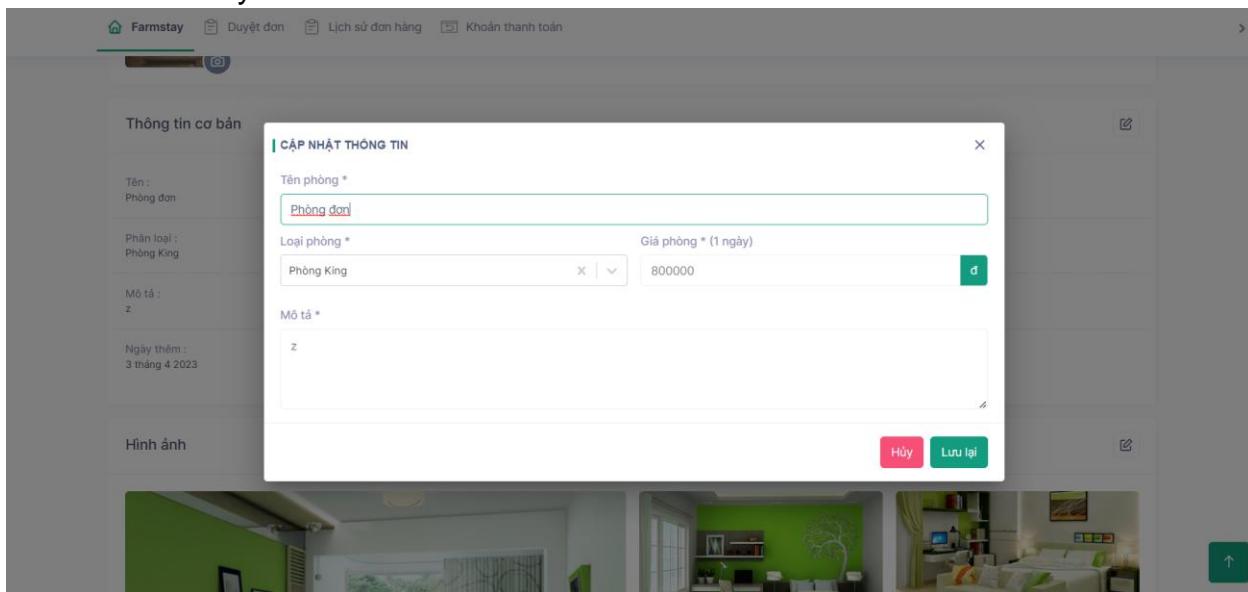


Figure 63 - <Host> Update Room

- Function Details:

- The actor clicks on “Cập nhật” icon in “Thông tin cơ bản” card
- Fill all information and clicks on “Lưu lại” button

Success: Stores the information, then shows the message “Cập nhật thành công”

Fail: Return an error message “Cập nhật thất bại.”

3.3.28 <Host> View Schedule of Room

- Function trigger: The actor requests to view schedule of room
- Function description: This function allows the actor to view schedule of room
- Screen layout:

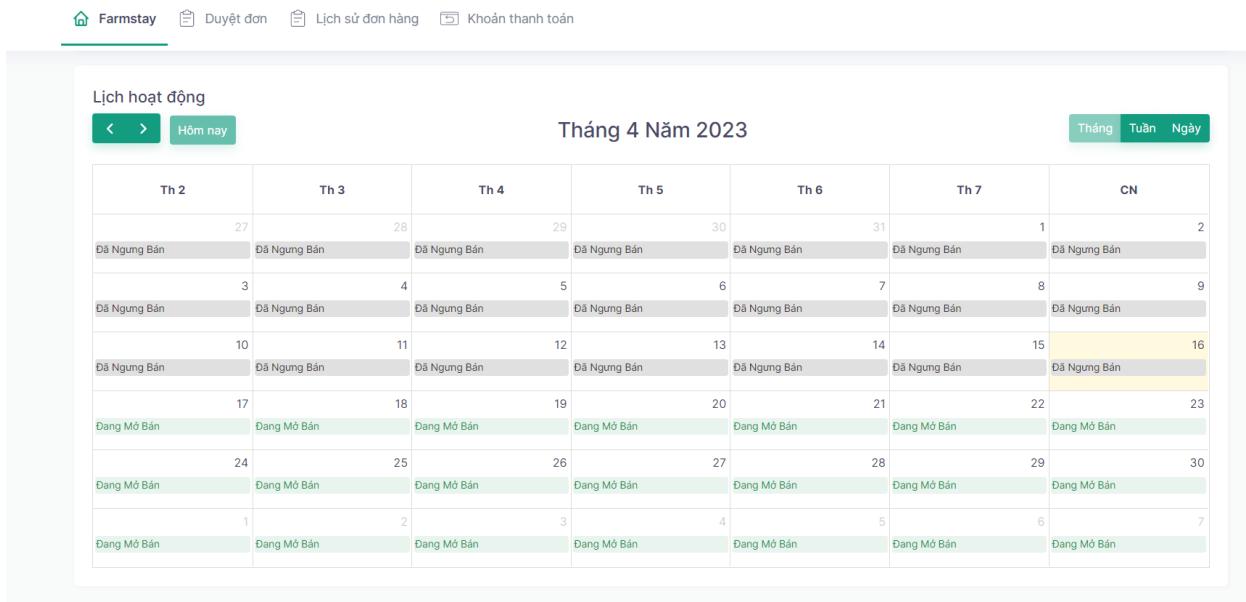


Figure 64 - <Host> View Schedule of Room

- Function Details:

- Click on "Xem chi tiết" button in an activity on the "Phòng" tab
- Scroll down to view the room activity
- The schedule is displayed with the following:
 "Previous" button
 "Next" button
 "Tháng" button
 "Tuần" button
 "Ngày" button
 Status in schedule

3.3.29 <Host> Create Service

- Function trigger: The actor requests to create service
- Function description: This function allows the actor to create service
- Screen layout:

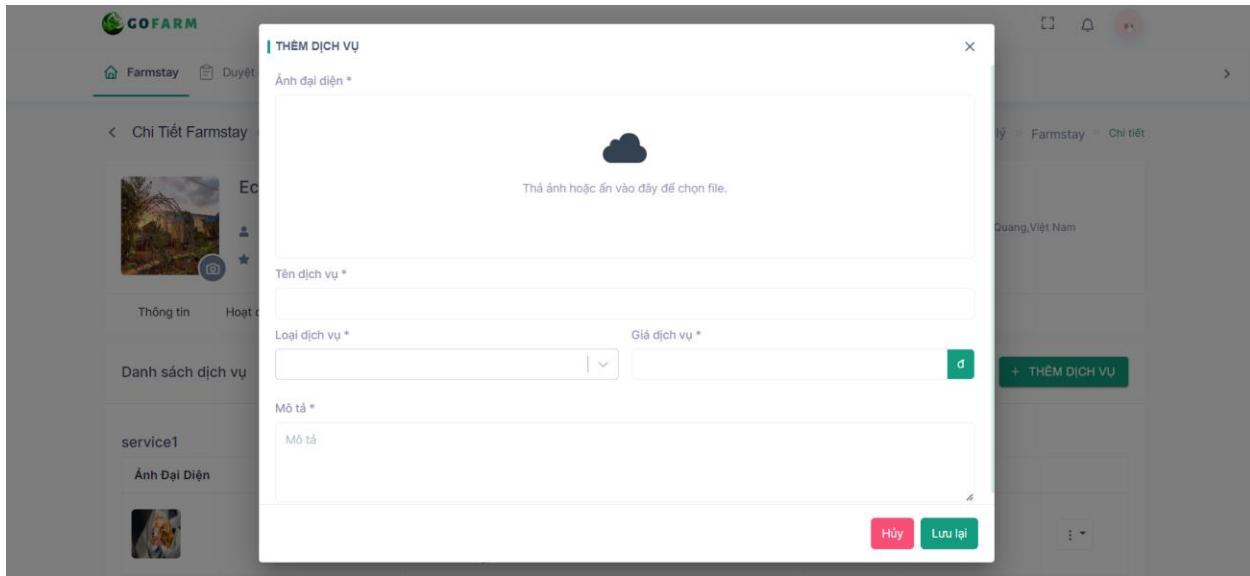


Figure 65 - <Host> Create Service

- Function Details:
 - The actor clicks on “Thêm dịch vụ” button in “Dịch vụ” tab
 - The system will show the following information:
 - “Ảnh đại diện”: photo upload
 - “Tên dịch vụ”: input text
 - “Loại dịch vụ”: dropdown
 - “Giá dịch vụ”: input text
 - “Mô tả”: input text
 - Clicks on “Lưu lại” button
 - Success:** Stores the information, then shows the message “Tạo mới thành công”
 - Fail:** Return an error message “Tạo mới thất bại.”

3.3.30 <Host> Lock Service

- Function trigger: The actor requests to lock service
- Function description: This function allows the actor to unlock service
- Screen layout:

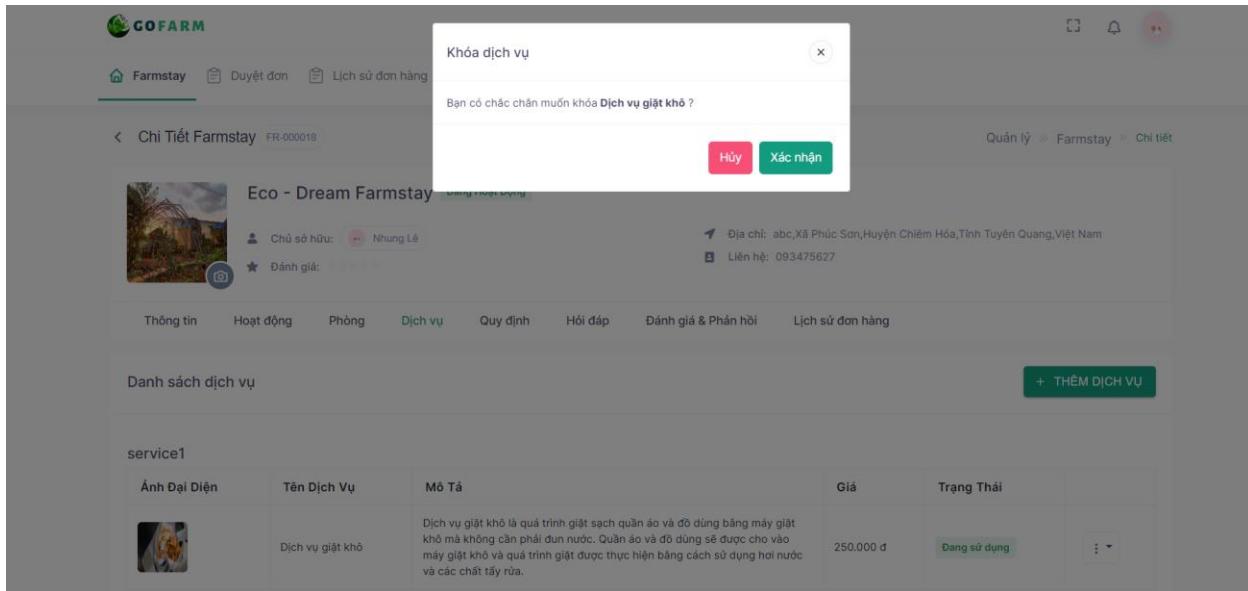


Figure 66 - <Host> Lock Service

- Function Details:

- The actor clicks on “Khóa” button in “Dịch vụ” tab
- “Khóa dịch vụ” popup is displayed
- Clicks on “Xác nhận” button

Success: Stores the information, then shows the message “Cập nhật thành công”

Fail: Return an error message “Cập nhật thất bại.”

3.3.31 <Host> Unlock Service

- Function trigger: The actor requests to unlock service
- Function description: This function allows the actor to unlock service
- Screen layout:

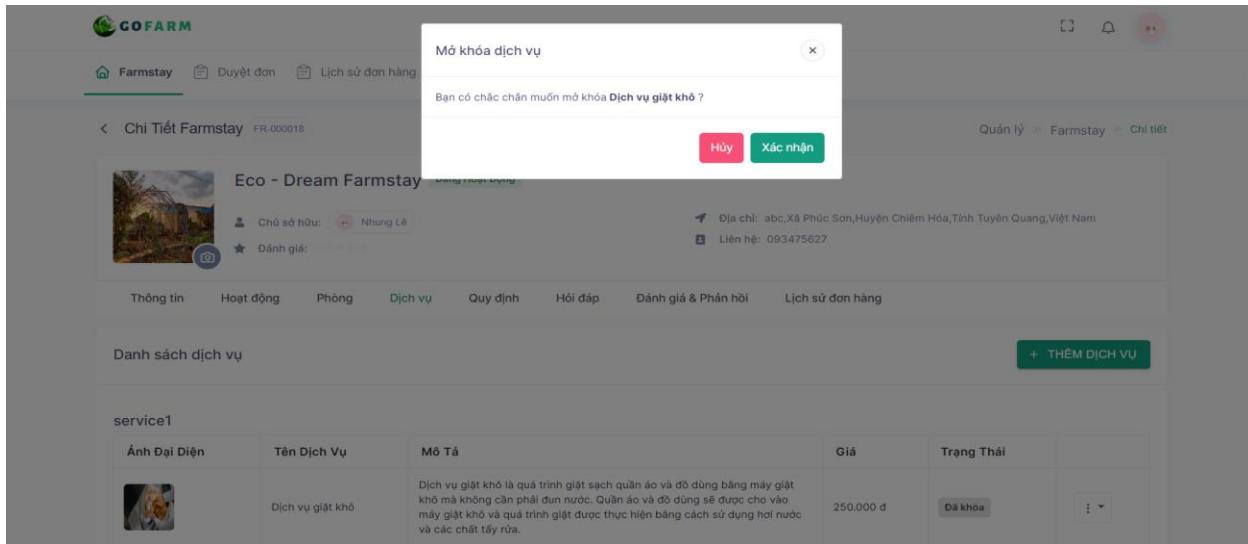


Figure 67 - <Host> Unlock Service

- Function Details:

- The actor clicks on “Mở Khóa” button in “Phòng” tab
- “Mở khóa dịch vụ” popup is displayed
- Clicks on “Xác nhận” button

Success: Stores the information, then shows the message “Cập nhật thành công”

Fail: Return an error message “Cập nhật thất bại.”

3.3.32 <Host> Delete Service

- Function trigger: The actor requests to delete service
- Function description: This function allows the actor to delete service
- Screen layout:

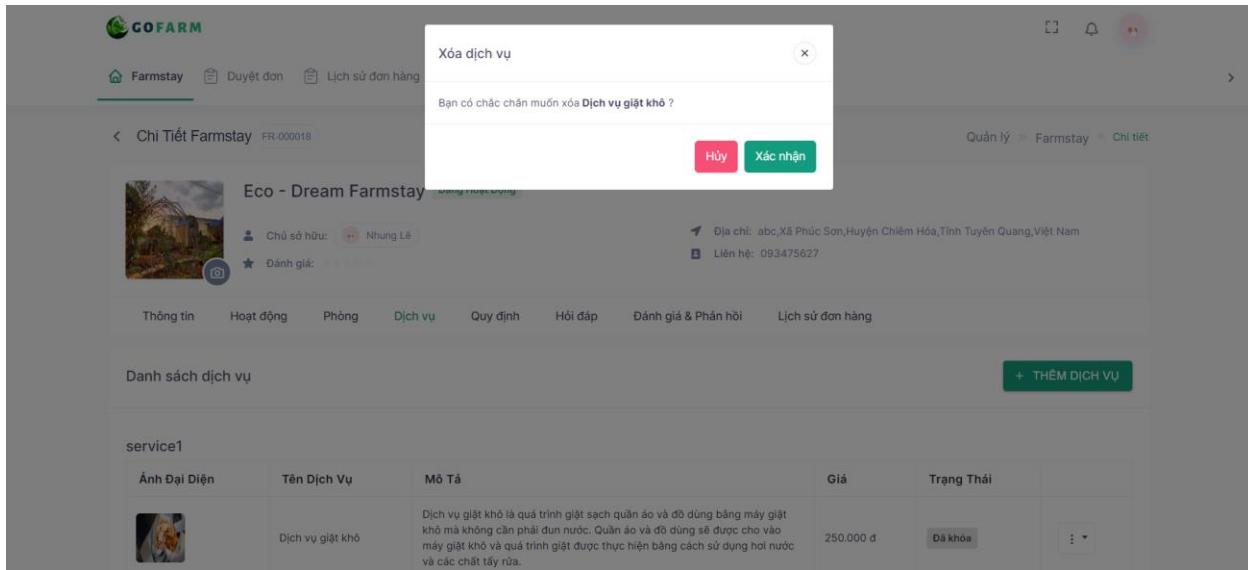


Figure 68 - <Host> Delete Service

- Function Details:

- The actor clicks on “Xóa” icon in “...” button
- “Xóa dịch vụ” popup is displayed
- Clicks on “Xác nhận” button

Success: Stores the information, then shows the message “Xóa thành công”

Fail: Return an error message “Xóa thất bại.”

3.3.33 <Host> View Service

- Function trigger: The actor requests to view service
- Function description: This function allows the actor to view service
- Screen layout:

The screenshot shows the GoFarm application interface. At the top, there are navigation links: Farmstay, Duyệt đơn, Lịch sử đơn hàng, and Khoản thanh toán. Below this, the service details for 'Eco - Dream Farmstay' are shown, including the host's name (Nhung Lê) and address (abc, Xã Phúc Sơn, Huyện Chiêm Hóa, Tỉnh Tuyên Quang, Việt Nam). A 'Danh sách dịch vụ' (Service Catalog) section lists a laundry service ('Giặt Ủi') with a thumbnail, service name ('Dịch vụ giặt khô'), description ('Dịch vụ giặt khô là quá trình giặt sạch quần áo và đồ dùng bằng máy giặt khô mà không cần pha nước. Quần áo và đồ dùng sẽ được cho vào máy giặt khô và quá trình giặt được thực hiện bằng cách sử dụng hơi nước và các chất tẩy rửa.'), price ('250.000 đ'), and status ('Đã khóa'). A green button '+ THÊM DỊCH VỤ' is visible at the top right of the catalog.

Copyright © 2023 GoFarm. Version 0.1.0

Figure 69 - <Host> View Service

- Function Details:

- The actor clicks on "Phòng" tab.
- The application redirects to service tab and shows information of service

3.3.34 <Host> Update Service

- Function trigger: The actor requests to update service
- Function description: This function allows the actor to update service
- Screen layout:

The screenshot shows the GoFarm application interface with a modal dialog titled 'CẬP NHẬT' (Update) over a service detail page. The dialog contains fields for updating the service: 'Tên dịch vụ *' (Service name *), 'Loại dịch vụ *' (Service type *), 'Giá dịch vụ *' (Service price *), and 'Mô tả *' (Description *). The 'Tên dịch vụ' field has 'Dịch vụ giặt khô' selected. The 'Loại dịch vụ' dropdown shows 'Giặt Ủi'. The 'Giá dịch vụ' field shows '250000'. The 'Mô tả' field contains the same description as in Figure 69. At the bottom right of the dialog are 'Hủy' (Cancel) and 'Lưu lại' (Save) buttons. The background shows the same service catalog and laundry service details as in Figure 69.

Figure 70 - <Host> Update Service

- Function Details:

- The actor clicks on “Cập nhật” icon in “...” button

- Fill all information and clicks on “Lưu lại” button

Success: Stores the information, then shows the message “Cập nhật thành công”

Fail: Return an error message “Cập nhật thất bại”

3.3.35 <Host> Create Policy

- Function trigger: The actor requests to create policy
- Function description: This function allows the actor to create policy
- Screen layout:

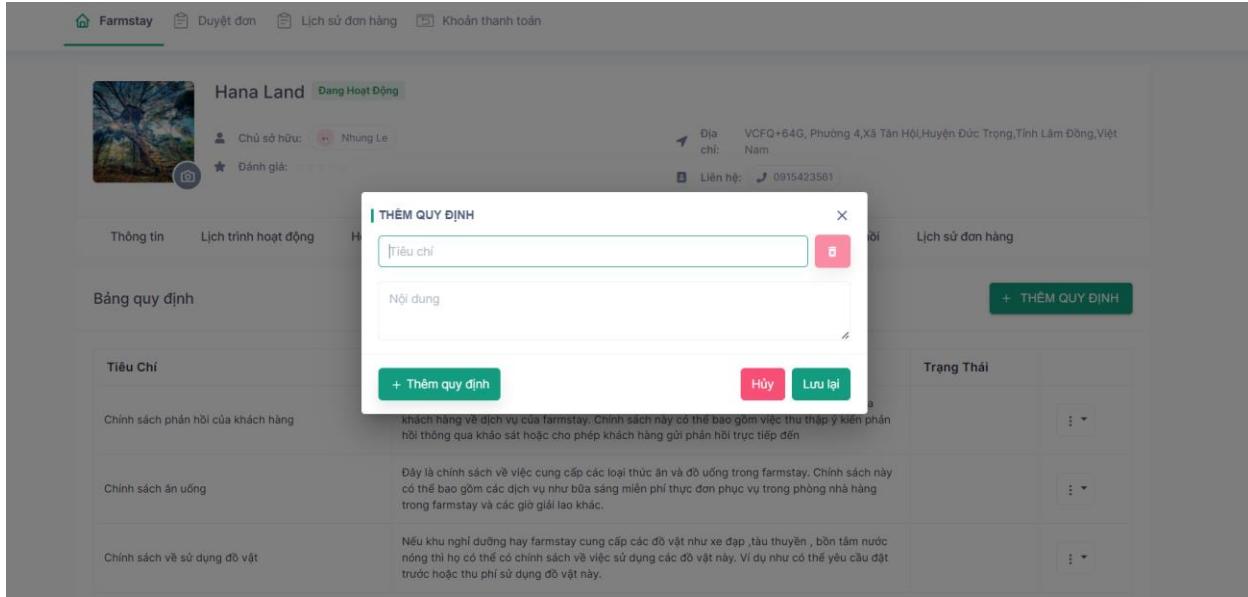


Figure 71 - <Host> Create Policy

- Function Details:

- The actor clicks on “Thêm quy định” button in “Quy định” tab
- The system will show the following information:
“Tiêu chí”: input text
“Nội dung”: dropdown
- Clicks on “Lưu lại” button

Success: Stores the information, then shows the message “Tạo mới thành công”

Fail: Return an error message “Tạo mới thất bại.”

3.3.36 <Host> Update Policy

- Function trigger: The actor requests to update policy
- Function description: This function allows the actor to update policy
- Screen layout:

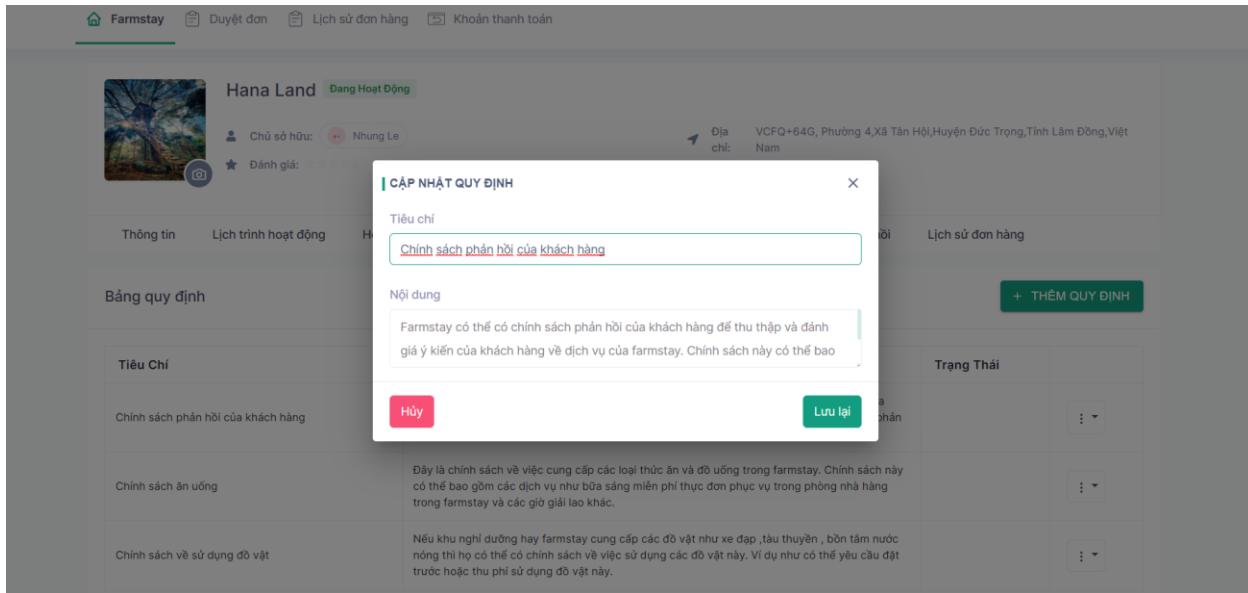


Figure 72 - <Host> Update Policy

- Function Details:

- The actor clicks on “Cập nhật” icon in “...” button
- Fill all information and clicks on “Lưu lại” button

Success: Stores the information, then shows the message “Cập nhật thành công”
Fail: Return an error message “Cập nhật thất bại”

3.3.37 <Host> Delete Policy

- Function trigger: The actor requests to delete policy
- Function description: This function allows the actor to delete policy
- Screen layout:

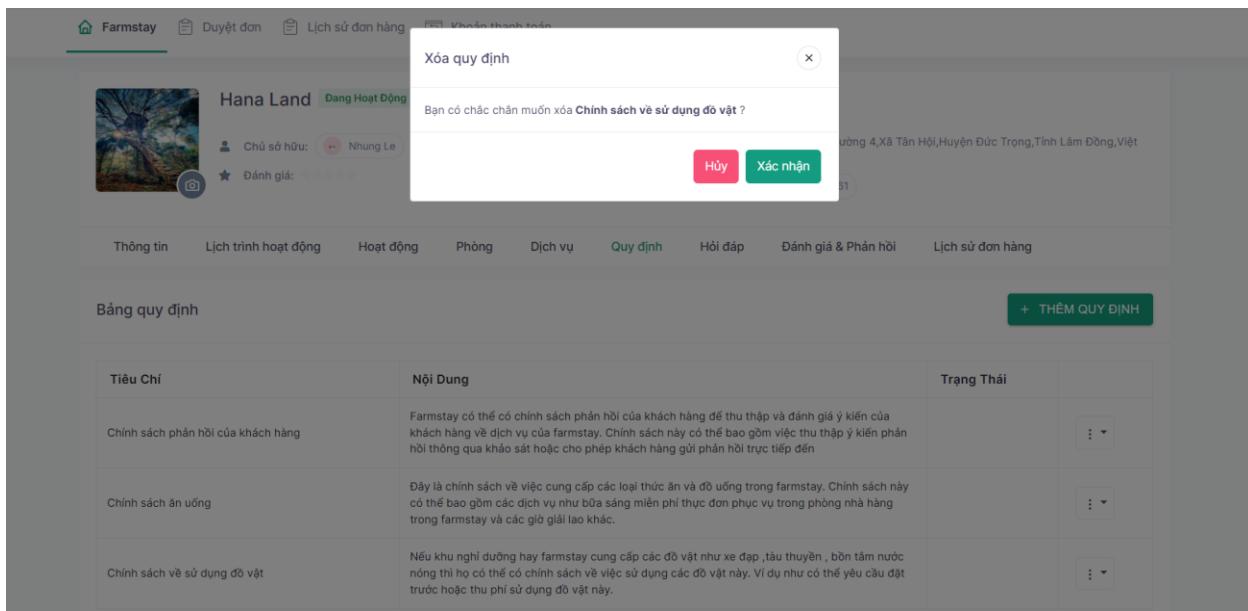


Figure 73 - <Host> Delete Policy

- Function Details:

- The actor clicks on “Xóa” icon in “...” button
- Click on “Xác nhận” button

Success: Stores the information, then shows the message “Xóa thành công”

Fail: Return an error message “Xóa thất bại”

3.3.38 <Host> Approve/Reject Booking

- Function trigger: The actor receives a request to approve or reject a booking.
- Function description: This function allows the actor to review and approve or reject a booking created by a customer.
- Screen layout:

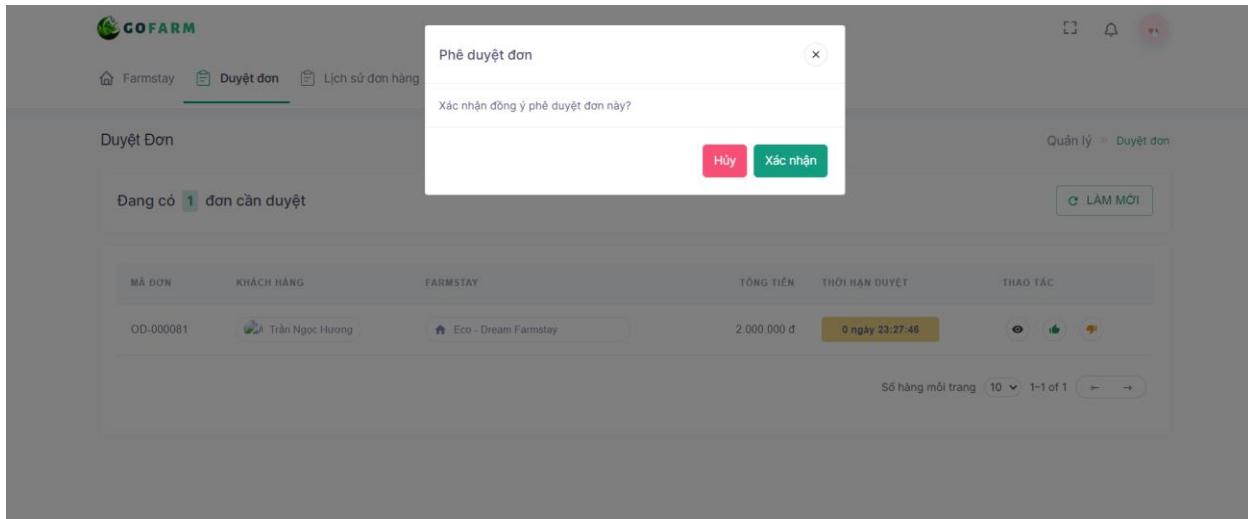


Figure 74 - <Host> Approve Booking

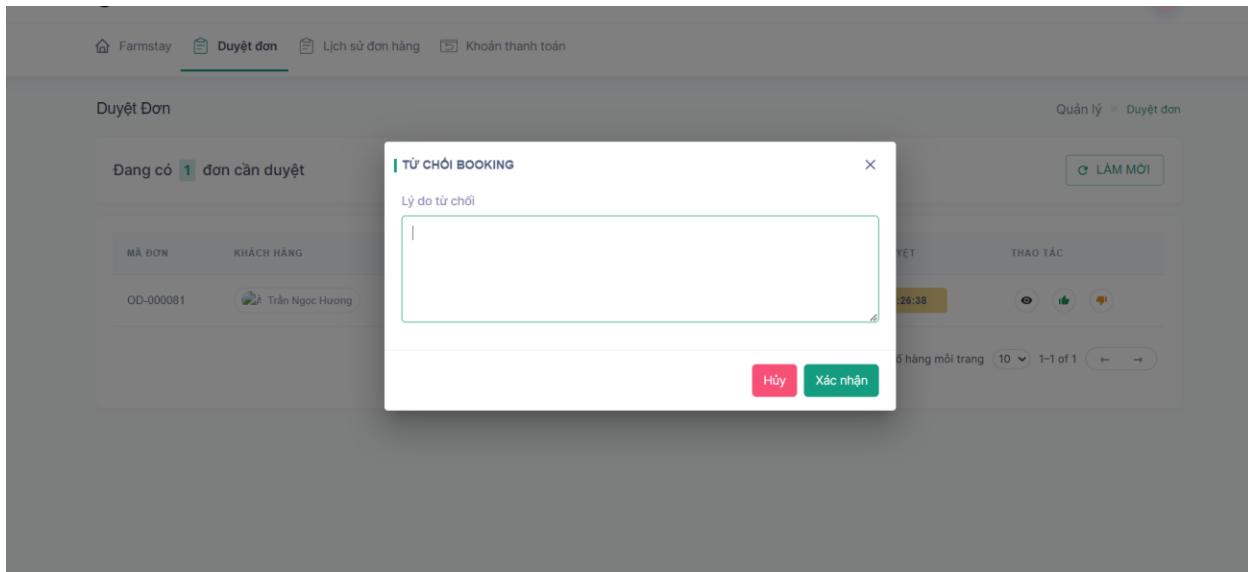


Figure 75 - <Host> Reject Booking

- Function Details:

- **Case 1:** The actor clicks on “Phê duyệt” icon in “Thao tác” field and clicks on “Xác nhận” button
Success: Shows the message “Cập nhật thành công” and send email for host
- **Case 2:** The actor clicks on “Từ chối” icon in “Thao tác” field
 - The actor enter reason reject in “Từ chối booking” popup
- **Case 2.1:** The actor clicks on “Hủy” button
 The system will return to approve the request screen
- **Case 2.2:** The actor clicks on “Xác nhận” button
 The system will update the status of this booking into “Từ chối” if

Success: Shows the message “Cập nhật thành công” and send email for host

3.3.39 <Host> View Order Detail

- Function trigger: The actor requests to view order detail
- Function description: This function allows the actor to view order detail
- Screen layout:

The screenshot shows the GOFARM system interface for viewing an order detail. At the top, there's a navigation bar with links for Farmstay, Đơn cần duyệt, Lịch sử đơn hàng (highlighted in green), Khoản thanh toán, and Hỗ trợ. Below the navigation is a breadcrumb trail: Quản lý > Đơn hàng > Chi tiết. The main content area has two sections: 'Thông tin khách hàng:' (Customer Information) and 'Đơn hàng:' (Order). Under 'Thông tin khách hàng:', there are fields for Name (Người đặt: Hải Đăng), Sdt (Phone number), and Email (Email: haidangnguyen1233@gmail.com). Under 'Đơn hàng:', it shows the order ID (Mã đơn hàng: OD-000162), Farmstay (Mai Châu Farmstay), and Date (Ngày lập đơn: 25 tháng 4 2023). A button labeled 'Chờ xác nhận' (Pending confirmation) is visible. Below these sections is a table titled 'Chi tiết' (Details) showing the breakdown of the total amount:

Mã	Loại	Tên	Ngày	Giá
R-000119	Phòng	Phòng thường 1 phòng tắm	26/04/2023	1.000.000 đ
			Tổng tiền	1.000.000 đ
			PLATFORM	10% 100.000 đ
			VAT	10% 110.000 đ
			PHÍ THANH TOÁN	1.210.000 đ

Figure 76 - <Host> View Order Detail

- Function Details:
 - The actor clicks on “Lịch sử đơn hàng” tab
 - The actor clicks on “Xem chi tiết” icon in “Thao tác” field
 - The system shows all information of order

3.3.40 <Host> Search Order

- Function trigger: The actor requests to search order
- Function description: This function allows the actor to search order
- Screen layout:

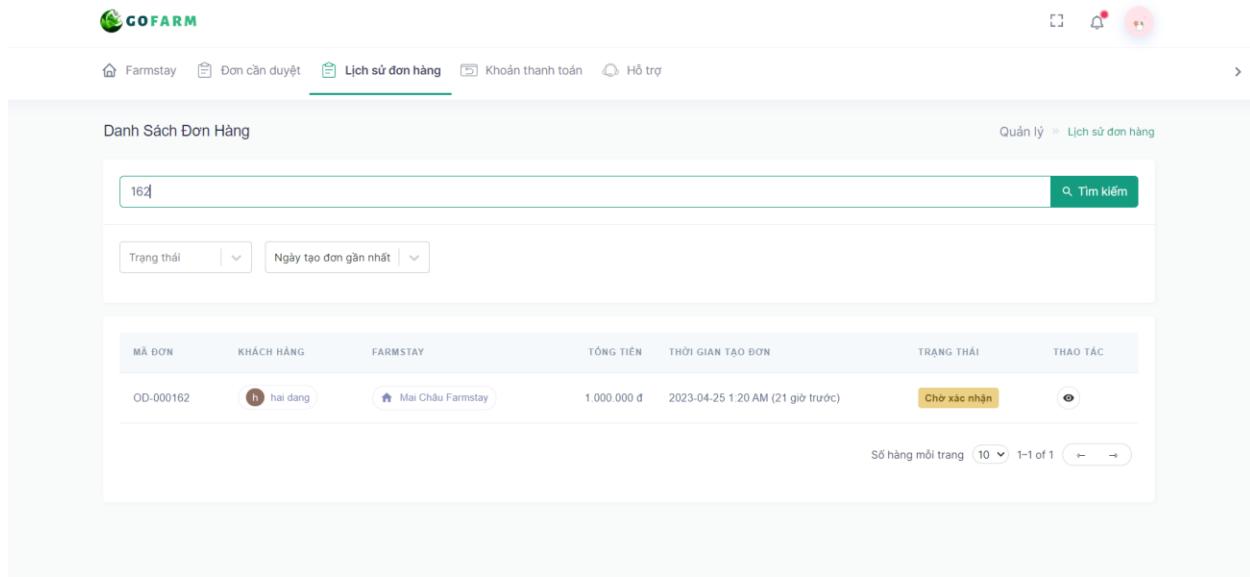


Figure 77 - <Host> Search Order

- Function Details:
 - The actor enters a value into search bar
The system will show the following result if:
Success: Shows all search results on the order list
Fail: Shows message “Không có dữ liệu”

3.3.41 <Host> View Notification

- Function trigger: The actor requests to view notification
- Function description: This function allows the actor to view notification
- Screen layout:

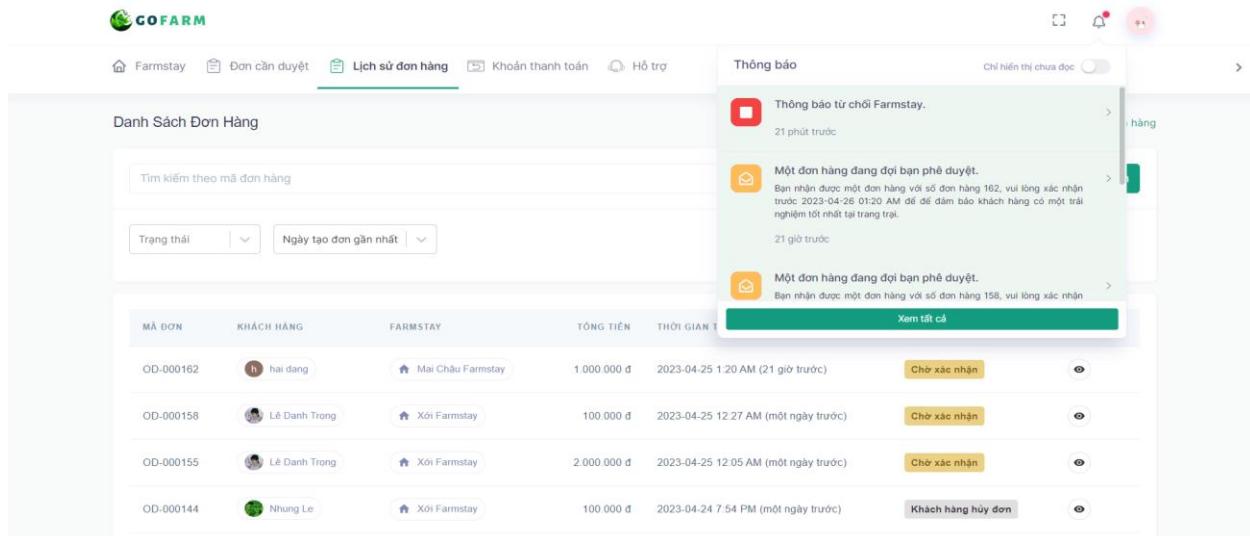


Figure 78 - <Host> View Notification

- Function Details:

- The actor click on bell icon in right corner
The system will show all the notification:
Success: Shows notification
Fail: Do not show notifications

3.4 Mobile Application for Customer

3.4.1 <Customer> Signup

- Function trigger: The actor requests to signup by account Google
- Function description: This function allows the actor to signup
- Screen layout:

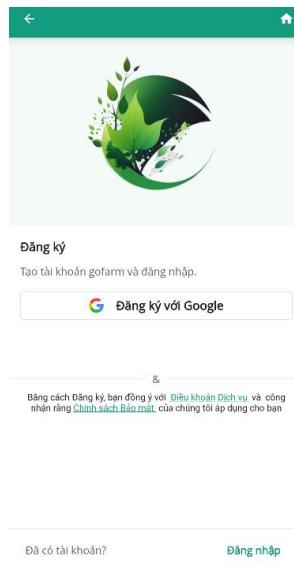
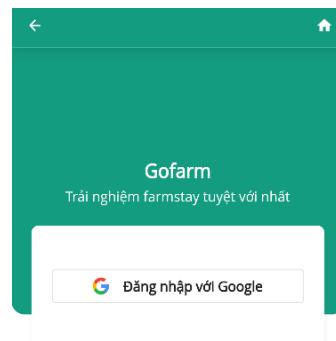


Figure 79 -<Customer> Sign up

- Function Details:
 - The actor clicks on “Đăng ký với Google” button.
 - It redirects the customer to Google's OAuth consent screen, where they can review the permissions requested by the application
 - The actor enters email and password for google account
 - The application will redirect to the home screen with role customer:
Success: Redirect to home screen
Fail: Return an error message “Tài khoản đã tồn tại, vui lòng chọn tài khoản khác hoặc thực hiện đăng nhập”

3.4.2 <Customer> Sign in

- Function trigger: The actor requests to sign in by account Google
- Function description: This function allows the actor to sign in
- Screen layout:



Chưa có tài khoản? [Đăng ký](#)

Figure 80 - <Customer> Sign in

- Function Details:
 - The actor clicks on “Đăng nhập với Google” button.
 - It redirects the customer to Google's OAuth consent screen, where they can review the permissions requested by the application
 - The actor enters email and password for google account
 - The application will redirect to the corresponding screen with role customer:
- Success:** Redirect to home screen
- Fail:** Return an error message “Không tìm thấy tài khoản của bạn. Vui long kiểm tra lại hoặc đăng ký tài khoản mới”

3.4.3 <Customer> Search farmstay

- Function trigger: The actor requests to search a farmstay
- Function description: This function allows the actor to search farmstay
- Screen layout:

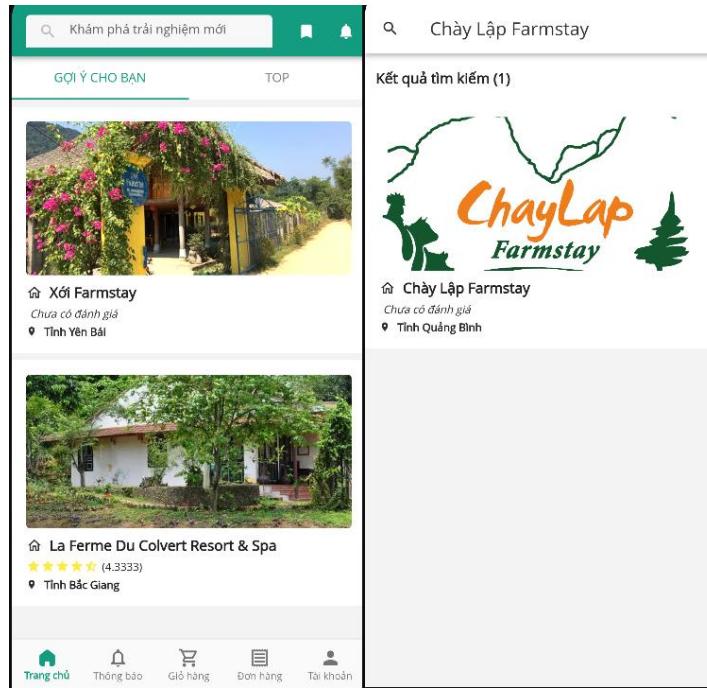


Figure 81 - <Customer> Search farmstay

- Function Details:
 - The actor enters a search value into “Khám phá trải nghiệm mới” field in home page
 - The application will display the following results based on the search criteria**Success:** Displays all the corresponding farmstay options on the list.
Fail: Displays an error message “Không có dữ liệu”

3.4.4 <Customer> View farmstay

- Function trigger: The actor requests to view a farmstay
- Function description: This function allows the actor to view farmstay
- Screen layout:

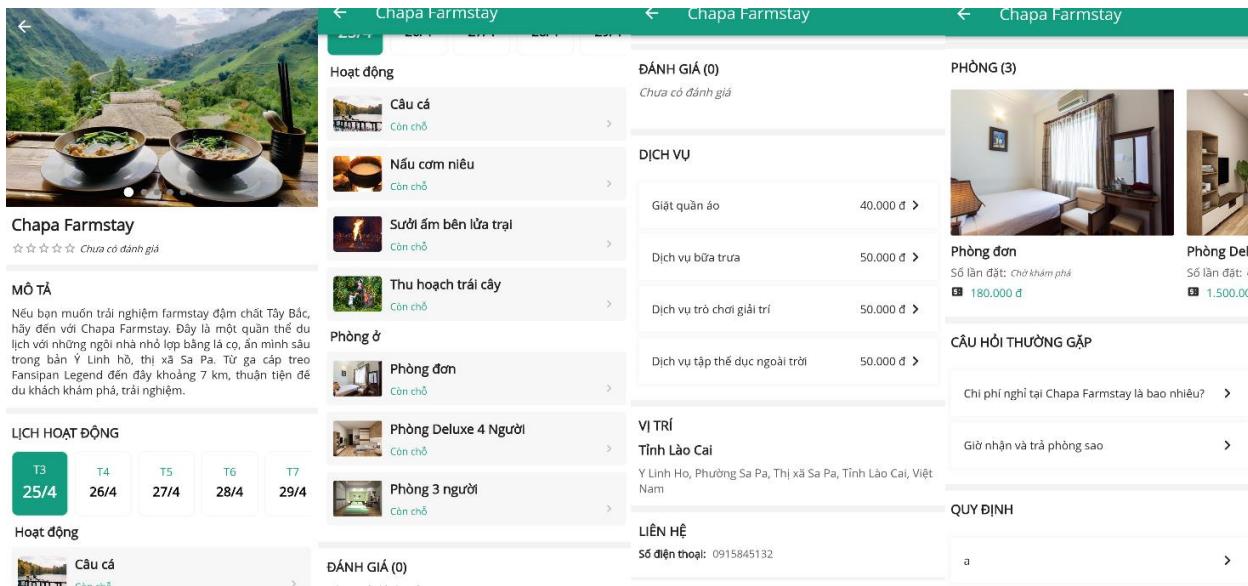


Figure 82 - <Customer> View Farmstay

- Function Details:
 - The actor clicks on a farmstay they want to view detail on home page or on search results
 - The application will display the farmstay's profile information on the screen, including “Lịch hoạt động”, “Hoạt động”, “Phòng ở”, “Đánh giá”, “Dịch vụ”, “Vị trí”, “Câu hỏi thường gặp”, “Quy định”

3.4.5 <Customer> View activity detail

- Function trigger: The actor requests to view activity detail
- Function description: This function allows the actor to view activity detail
- Screen layout:

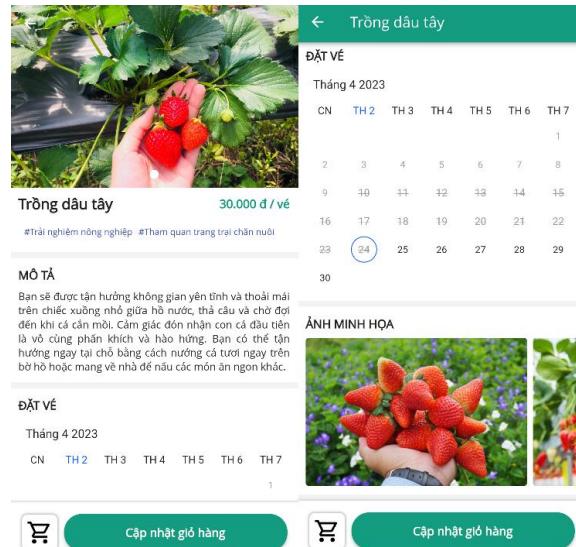


Figure 83 - <Customer> View Activity Detail

- Function Details:
 - The actor clicks on an activity in farmstay detail screen
 - The application redirects to activity detail and shows information of activity

3.4.6 <Customer> View room detail

- Function trigger: The actor requests to view room detail
- Function description: This function allows the actor to view room detail
- Screen layout:

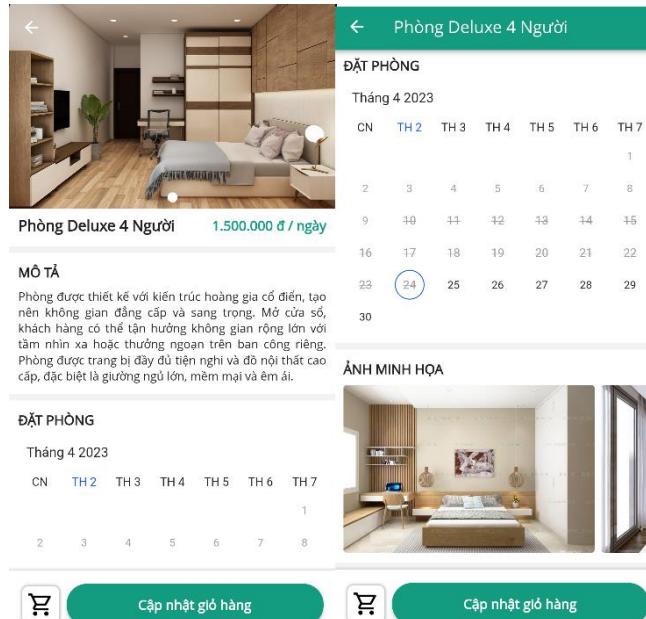


Figure 84 - <Customer> View Room Detail

- Function Details:
 - The actor clicks on a room in farmstay detail screen

- The application redirects to room detail and shows information of room
- 3.4.7 <Customer> View service detail**

- Function trigger: The actor requests to view service detail
- Function description: This function allows the actor to view service detail
- Screen layout:



Figure 85 - <Customer> View Service Detail

- Function Details:
 - The actor clicks on a service in farmstay detail screen
 - The application redirects to service detail and shows information of service

3.4.8 <Customer> View policy detail

- Function trigger: The actor requests to view policy detail
- Function description: This function allows the actor to view policy detail
- Screen layout:

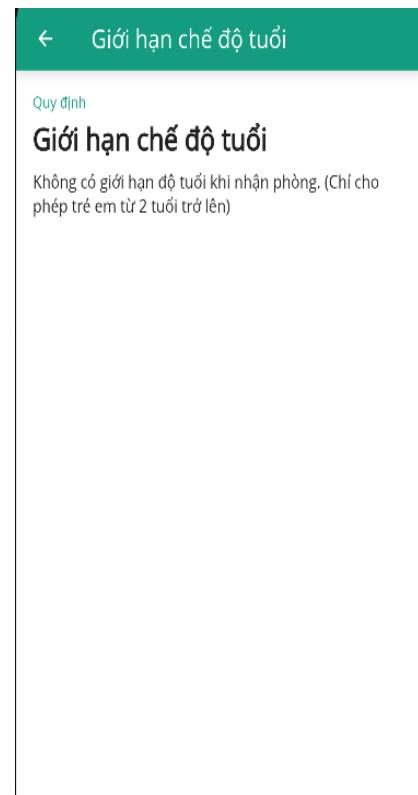


Figure 86 - <Customer> View Policy Detail

- Function Details:
 - The actor clicks on a policy in farmstay detail screen
 - The application redirects to policy detail and shows information of policy

3.4.9 <Customer> View profile

- Function trigger: The actor requests to view profile
- Function description: This function allows the actor to view profile
- Screen layout:

Hồ sơ cá nhân

Tên đầy đủ
Nhung Le

Tên

Họ

Email
mynhungld0201@gmail.com

Số điện thoại

Giới tính
Nam

Ngày sinh

Figure 87 - <Customer> View Profile

- Function Details:

- The actor presses on “Tài khoản” icon in the navigation tab
- Then click on “Hồ sơ cá nhân” text
- The application redirects to profile detail and shows information of customer

3.4.10 <Customer> Update profile

- Function trigger: The actor requests to update profile
- Function description: This function allows the actor to update profile
- Screen layout:

Hồ sơ cá nhân

Tên đầy đủ
Nhung Le

Tên

Họ

Email
mynhungld0201@gmail.com

Số điện thoại

Giới tính
Nữ

Ngày sinh

Cập nhật thành công

Figure 88 - <Customer> Update Profile

- Function Details:

- The actor presses on "Chỉnh sửa" icon to update profile

- The actor updates information and presses on “Lưu” icon
 - The application verifies the input data for validation
- Success:** Saves the updated information and displays a success message “Cập nhật thành công”.
- Fail:** Shows an error message “Cập nhật thất bại”

3.4.11 <Customer> Add items to cart

- Function trigger: The actor requests to add items to cart
- Function description: This function allows the actor to add items to cart
- Screen layout:

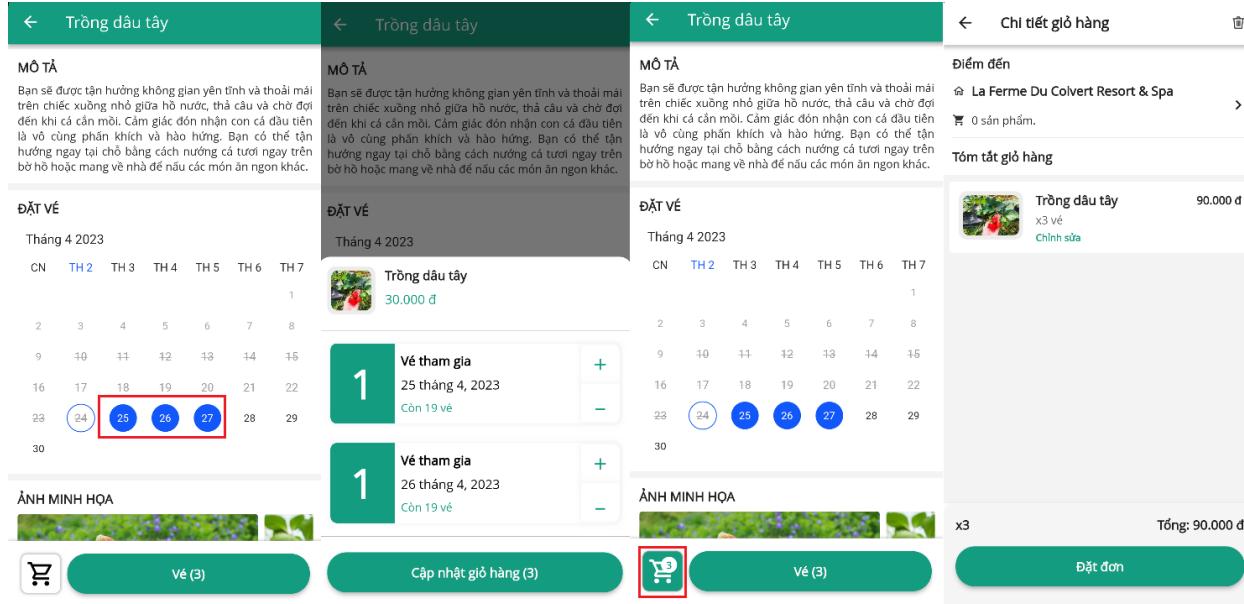


Figure 89 - <Customer> Add items to cart

- Function Details:
 - The actor selects desired farmstay.
 - The actor press on an activity or a room in farmstay details screen to booking
 - Press on the date in the schedule to add room or activity to cart
 - Press on “Cập nhật giỏ hàng” button
 - The actor press on cart icon, the application redirects to “Chi tiết giỏ hàng” screen

3.4.12 <Customer> Update cart

- Function trigger: The actor requests to update cart
- Function description: This function allows the actor to update cart
- Screen layout:

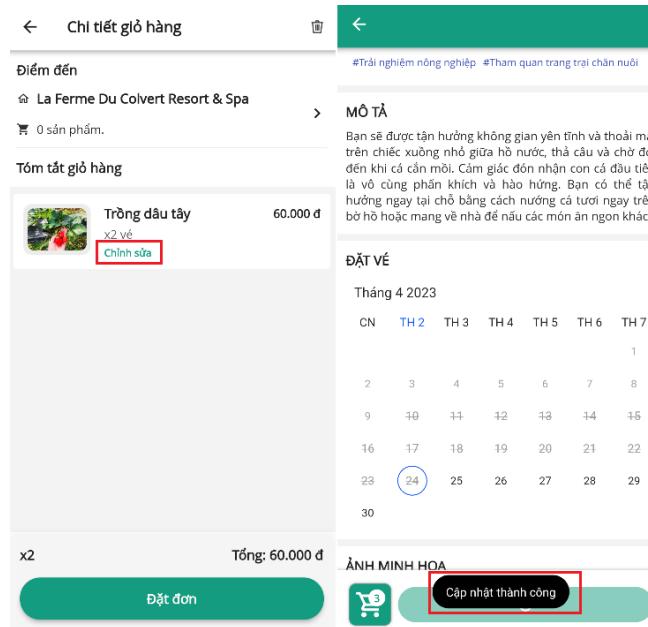


Figure 90 - <Customer> Update cart

- Function Details:

- In “Chi tiết giờ hàng” screen, the actor presses on “Chỉnh sửa” text
- The application redirects to activity detail screen
- The actor update the date in the schedule and press on “Cập nhật giờ hàng” button
- Cart icon has been updated and shows the message "Cập nhật thành công"

3.4.13 <Customer> Remove cart

- Function trigger: The actor requests to remove cart
- Function description: This function allows the actor to remove cart
- Screen layout:

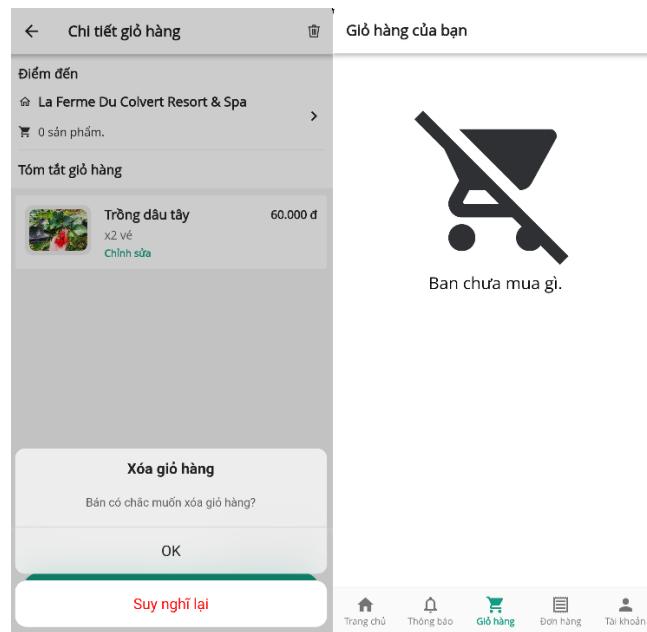


Figure 91 - <Customer> Remove cart

- Function Details:

- In “Chi tiết giỏ hàng” screen, the actor presses on trash icon
- The confirmation message is displayed.
- The actor pressed on “OK” button
- Verify that the cart has been successfully deleted, the message "Giỏ hàng đã bị xóa hoặc chưa tồn tại" must be displayed.

3.4.14 <Customer> Create a booking

- Function trigger: The actor requests to create a booking
- Function description: This function allows the actor to create a booking
- Screen layout:

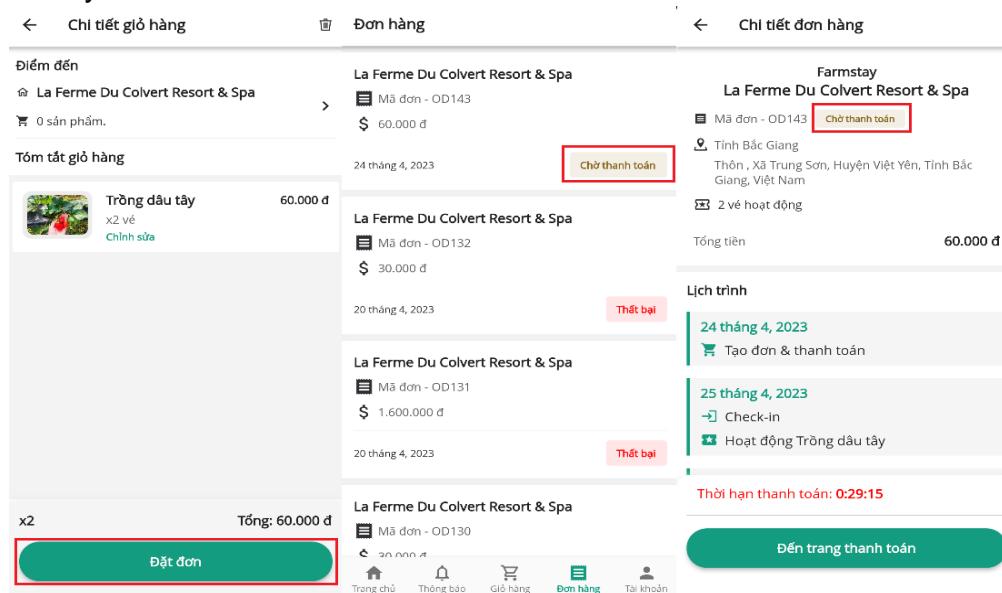


Figure 92 - <Customer> Create a booking

- Function Details:

- The actor presses on “Giỏ hàng” icon in navigation tab
- The “Chi tiết giỏ hàng” screen is displayed, the actor check cart information
- Confirm information and press on “Đặt đơn” button
- The booking has been created successfully. If the actor want to pay later , the status will be “Chờ thanh toán” status

3.4.15 <Customer> Payment for booking

- Function trigger: The actor requests to payment for booking
- Function description: This function allows the actor to payment for booking
- Screen layout:

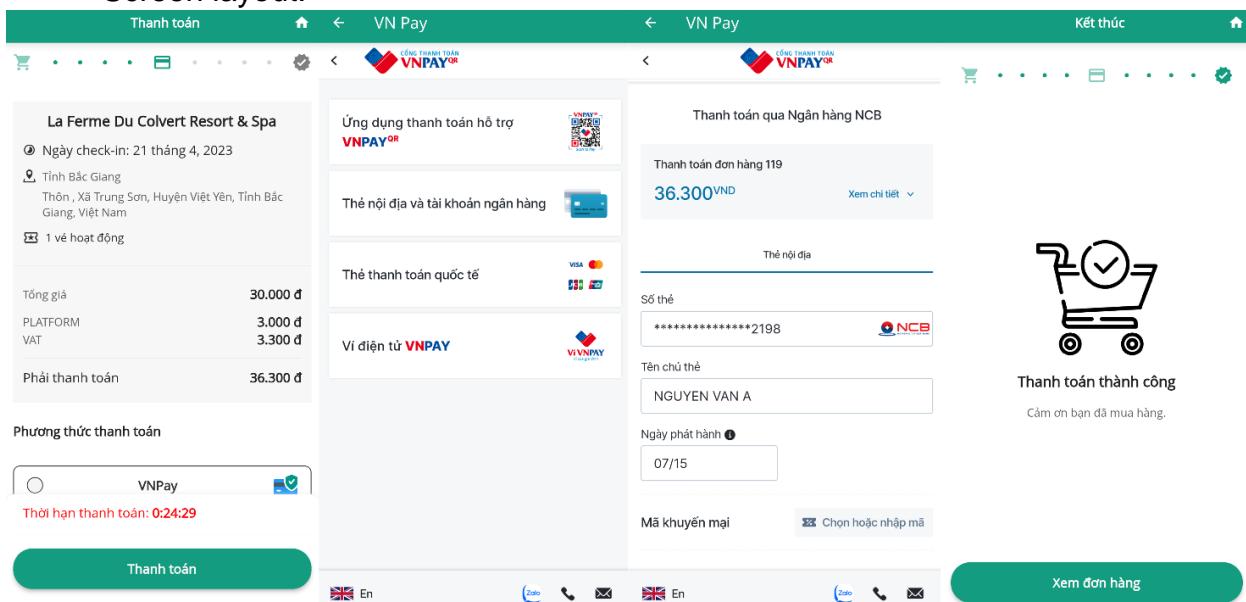


Figure 93 - <Customer> Payment for booking

- Function Details:

- The actor clicks on "Thanh toán" button when create a booking successfully
- The application redirects the actor to “Thanh toán” screen
- Confirm information and press on “Thanh toán” button
- The application redirects the actor to “VNPay” screen
- Select a payment method and enter the necessary information for payment.
- Press on "Thanh toán" button in VNPay screen
- The application will display the following status
Success: Updates the booking status to "Chờ phê duyệt".
Fail: Displays an error message "Thất bại"

3.4.16 <Customer> View notification

- Function trigger: The actor requests to view notification
- Function description: This function allows the actor to view notification
- Screen layout:



Figure 94 - <Customer> View notification

- Function Details:
 - The actor presses on “Thông báo” icon in navigation tab
 - The application redirects to “Thông báo” screen
 - The actor can view notifications

3.4.17 <Customer> Cancel booking

- Function trigger: The actor requests to cancel booking
- Function description: This function allows the actor to cancel booking
- Screen layout:

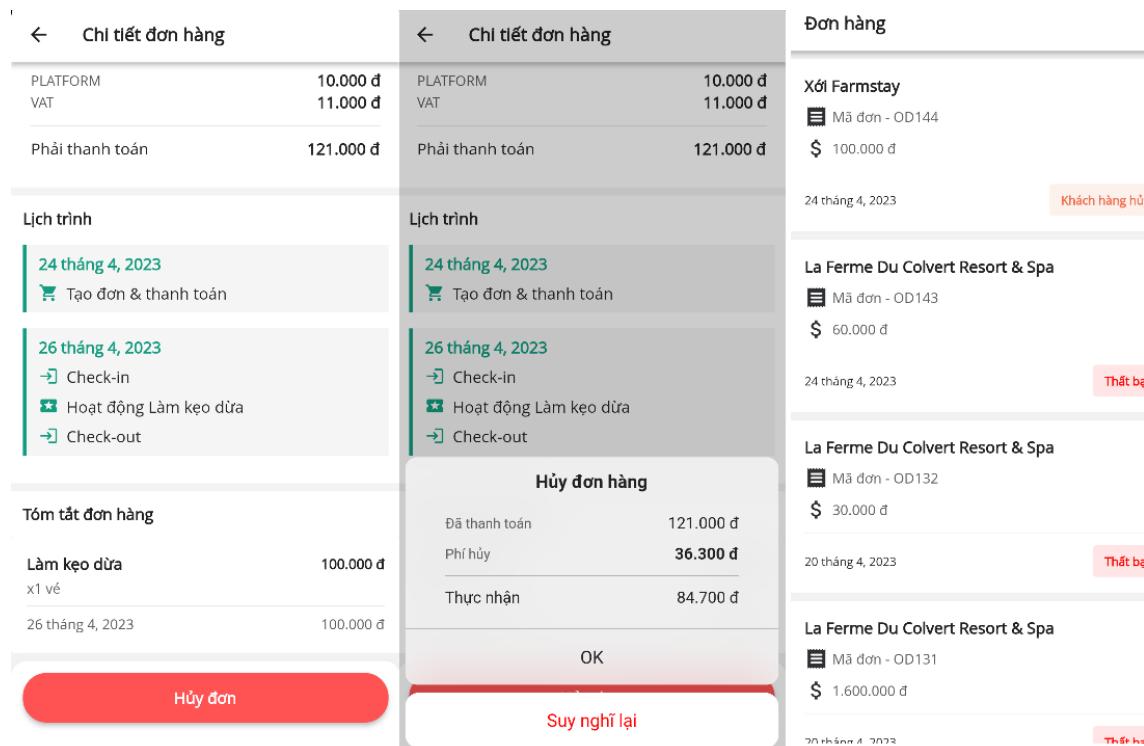


Figure 95 - <Customer> Cancel booking

- Function Details:

- The actor selects the booking they want to cancel
- The actor presses on the "Hủy đơn" button in booking detail
- The application confirms that the customer wants to cancel the booking.
- The actor presses on “OK” button in “Hủy đơn hàng” popup
- The application cancels the order and updates the status of the order to "Khách hàng hủy" status

3.4.18 <Customer> Feedback farmstay

- Function trigger: The actor requests to feedback farmstay
- Function description: This function allows the actor to feedback farmstay
- Screen layout:

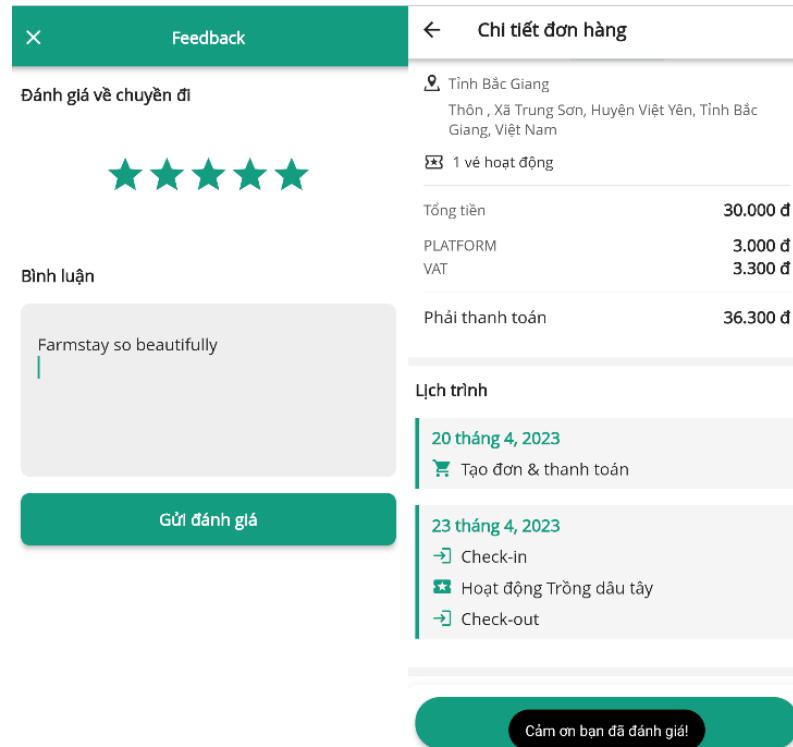


Figure 96 - <Customer> Feedback Farmstay

- Function Details:
 - The actor selects a booking with "Đã phê duyệt" status and checked out
 - The application redirects to booking detail screen
 - The actor presses on "Đánh giá chuyến đi" button and then rate and leave a comment.
 - The feedback has been created successfully, the message shows "Cảm ơn bạn đã đánh giá"

4. Non-Functional Requirements

4.1 External Interface

4.1.1 User Interfaces

UI-01. The user successfully logs in with valid credentials. The dashboard page should load within 10 seconds.

UI-02. The application supports Vietnamese language.

UI-03. Page information is presented in a clear and concise manner to allow users to focus.

UI-04. The text is easily readable due to the clear contrast between the background and font colors.

UI-05. The application is optimized for display on IOS devices.

4.1.2 Software Interfaces

4.1.3 Hardware Interfaces

HI-01. The application is compatible with standard devices like laptops or smartphones as long as they are connected to the internet.

4.1.4 Communication Interfaces

CI-01. The application could integrate with a payment gateway such as VNPay to handle payments for farmstay bookings

CI-02. The application could provide a RESTful that enables customers to access and manipulate resources related to booking farmstays

4.2 Quality Attributes

4.2.1 Usability

- The platform should have a user-friendly interface and navigation system.
- The platform has been designed to be accessible to all users, regardless of their technical knowledge or experience.

4.2.2 Reliability

- The average time for deployment completion is no more than 4 hours.
- The platform should have a high availability rate and be accessible 24/7.

4.2.3 Performance

- Response time of the platform should be less than 10 seconds for all critical transactions.
- The platform should be able to handle a large number of concurrent users without any significant degradation in performance.

4.2.4 Maintenance

- The platform should be easy to maintain and upgrade without affecting current functionality.
- The platform should have well-documented code and systems for ease of maintenance.

5. Requirement Appendix

5.1 Business Rules

No	Description
BR-1.	The user must have a Google account to sign in.
BR-2.	Name must not exceed 100 characters.
BR-3.	Email must be valid email address format
BR-4.	Phone numbers must contain only the number

BR-5.	Banned accounts cannot be used to access the system until it is unbanned.
BR-6.	The admin must have a valid reason to ban a customer.
BR-7.	The price must be greater than 0
BR-8.	The minimum price for an activity must be 10,000 VND.
BR-9.	The minimum price for a service greater or equal 0.
BR-10.	The minimum price for a room must be 100,000 VND.
BR-11.	The quantity must be greater than 0
BR-12.	Upload image's size should be less than 5Mb
BR-13.	ID will be generated by the system.
BR-14.	Only approved farmstays can be visible to customers.
BR-15.	Admin must reject farmstay with a reason.
BR-16.	Admin can only ban a farmstay if it does not abide by community standards.
BR-17.	The admin must review the host's request before approving or rejecting it.
BR-18.	After the farmstay is accepted by the admin, the host can update it.
BR-19.	After the admin approves the approval request, an email is sent to the host.
BR-20.	Customers cannot book an activity or room for dates in the past and the current date.
BR-21.	The customer can only make a booking within the next 3 months.
BR-22.	Customers can book an activity or room
BR-23.	Customers can book multiple activities on different days
BR-24.	Customers can book multiple activities in a day
BR-25.	Hosts can have multiple approval requests at the same time.
BR-26.	After booking, customers have 30 minutes to make the payment.

BR-27.	At the VNPay payment screen, customers have 15 minutes to complete the transaction. If the payment is not made within this time frame, the transaction will be cancelled.
BR-28.	After 45 minutes, the status will change to “Thất bại” status if the customer does not make the payment.
BR-29.	After the customer completes the payment, the host has 24 hours to approve or reject it.
BR-30.	Email is sent to the host if the customer completed the payment
BR-31.	Host must reject a booking with a reason.
BR-32.	If the host does not approve or reject the booking request within 24 hours , the system will automatically reject the request and refund the customer.
BR-33.	When the host accepts a booking, the status will change to "Đã phê duyệt"
BR-34.	An activity can have one or many activity tags.
BR-35.	A room can have one or many room categories.
BR-36.	Activity tags can be updated or deleted by the admin at any time.
BR-37.	All farmstays must meet minimum requirements for safety, cleanliness, and comfort.
BR-38.	The host must provide all required information when creating or updating a farmstay.
BR-39.	One farmstay can contain a maximum of 5 images.
BR-40.	The images cannot exceed 5MB in size.
BR-41.	Farmstay policies may vary depending on the location and type of the farmstay.
BR-42.	The policies must adhere to the laws and regulations of the country in which the farmstay is located.
BR-43.	Only the admin can create activity tags.
BR-44.	Only the admin can create room categories.
BR-45.	Only the admin can create service categories.
BR-46.	Customers can only use the services available at the farmstay.

BR-47.	Hosts can only view FAQs related to the farmstay they manage
BR-48.	The host must provide a valid question and answer for each FAQ.
BR-49.	The host must provide accurate contact information
BR-50.	The host cannot view the booking requests made for other host's farmstays.
BR-51.	Host can have one or more farmstays
BR-52.	Customers can create many booking requests.
BR-53.	Hosts can only view their own withdrawal requests
BR-54.	The customer must abide by the farmstay property's policies and rules during their stay.
BR-55.	The user must agree to the platform's terms and conditions
BR-56.	The system supports the VNPay payment method.
BR-57.	Payment must be made in 30 minutes at the time of checkout.
BR-58.	Customers can cancel a booking before a specified time prior to the check-in date
BR-59.	Customers can give feedback after the checkout date.
BR-60.	Customers who cancel a booking after it has been approved will be charged a cancellation fee based on the total price.
BR-61.	The host must provide valid bank account information during the signup process.
BR-62.	If the host rejects the booking, customers will receive a full refund without any fees.
BR-63.	Only signed-in customers are allowed to add items to their cart and create bookings.
BR-64.	Notify the host and email them upon customer's successful payment and booking.
BR-65.	Notify the host and email them when a customer cancels a booking, including refund details.

BR-66.	Notify the admin and email them when a host submits or updates a farmstay for review.
BR-67.	Notify the host and email them when the admin approves a farmstay, mentioning its visibility.
BR-68.	Notify the host and email them when the admin rejects a farmstay, stating the reason.
BR-69.	Bookings can be cancelled without any cancellation fee if the cancellation is made three or more days before the check-in date.
BR-70.	If a cancellation is made two days before the check-in date, a 30% cancellation fee will be charged. Cancellations made one day before the check-in date will not be accepted.
BR-71.	If the host does not approve the booking within 24 hours, the booking request will expire and the customer will receive a full refund without any fees being charged.
BR-72.	If the host rejects the booking, customers will receive a full refund without any fees being charged.

Table 21 - Business Rule

5.2 Application Messages List

No	Description
BR-1	The user must have a Google account to sign in.
BR-2	Name is greater than 100 characters or use unsupported encoding
BR-3	Email must be valid email address format
BR-4	Phone numbers must contain only the number
BR-5	Banned accounts cannot be used to access the system until it is unbanned.
BR-6	The admin must have a valid reason to ban a customer.
BR-7	The price must be greater than 0
BR-8	The quantity must be greater than 0
BR-9	Avatar url must be valid
BR-10	ID will be generated by the system.

BR-11	Only approved farmstays can be visible to customers.
BR-12	Admin must reject farmstay with a reason.
BR-13	The admin must review the host's request before approving or rejecting it.
BR-14	After the farmstay is accepted by admin, the host can update it.
BR-15	After the admin approves the approval request, an email is sent to the host.
BR-16	Customers can book an activity or room before the current date.
BR-17	The customer can only make a booking within the next 3 months.
BR-18	Customers can book an activity or room
BR-19	Customers can book multiple activities on different days
BR-20	Customers can book multiple activities in a day
BR-21	Hosts can have multiple approval requests at the same time.
BR-22	After booking, customers have 30 minutes to make the payment.
BR-23	After 45 minutes, the status will change "Thất bại" status if the customer does not make the payment.
BR-24	After the customer completes the payment, the host has 24 hours to approve or reject it.
BR-25	Email is sent to the host if the customer completed the payment
BR-26	Host must reject a booking with a reason.
BR-27	If the host does not approve or reject the booking request within 24 hour , the system will automatically reject the request and refund the customer.
BR-28	When the host accepts a booking, the status will change to "Đã phê duyệt"
BR-29	An activity can have one or many activity tags.
BR-30	A room can have one or many room categories.
BR-31	Activity tags can be updated or deleted by admin at any time.
BR-32	All farmstays must meet minimum requirements for safety, cleanliness, and comfort.
BR-33	The host must enter all required information when creating or updating a farmstay.
BR-34	One farmstay can contain a maximum of 5 images.
BR-35	The images cannot exceed 5MB in size.

BR-36	Policies may vary depending on the farmstay location and type.
BR-37	The policies must adhere to the laws and regulations of the country in which the farmstay is located.
BR-38	Only admin can create activity tags.
BR-39	Only admin can create room category.
BR-40	Only admin can create service category.
BR-41	Customers who purchase online will be use the service free of charge
BR-42	Customers can only use the services available at the farmstay.
BR-43	Hosts can only view FAQs related to the farmstays they manage
BR-44	The host must provide a valid question and answer for each FAQ.
BR-45	The host must provide accurate contact information
BR-46	The host cannot view the booking requests made for other host's farmstays.
BR-47	Host can have one or more farmstays
BR-48	Customer can create many booking requests.
BR-49	Hosts can only view their own withdrawal requests
BR-50	The customer must abide by the farmstay property's policies and rules during their stay.
BR-51	The user must agree to the platform's terms and conditions
BR-52	The system supports the VNPay payment method.
BR-53	Payment must be made in 30 minutes at the time of checkout.
BR-54	The cancellation process must be initiated from 3 to 1 day before the scheduled check-in date.
BR-55	The completion date is 3 days from the check-in date.

Table 22 - Application Messages List

IV. Software Design Document

1. System Design

1.1 System Architecture

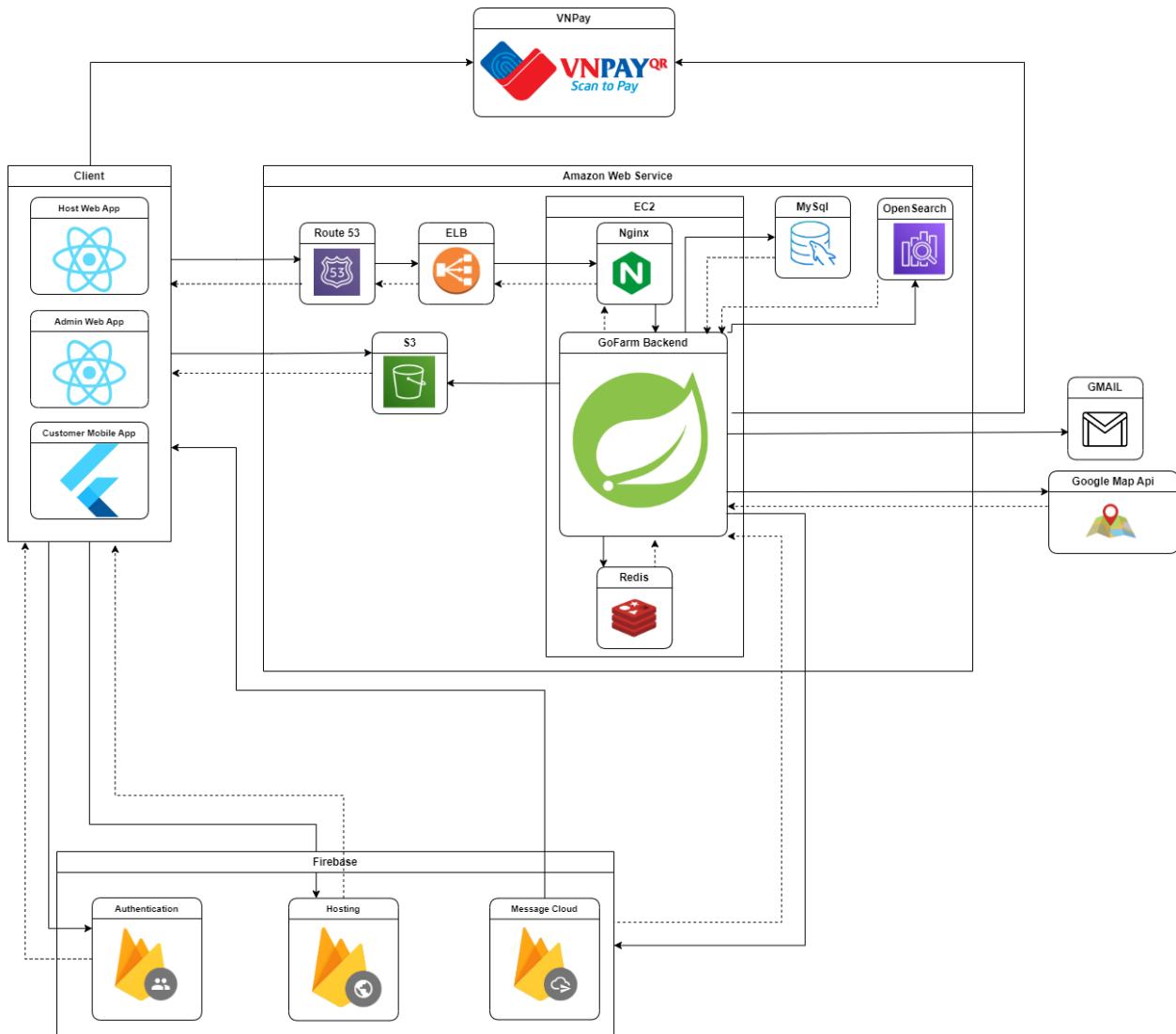


Figure 97 – System Architecture

1.2 Package Diagram

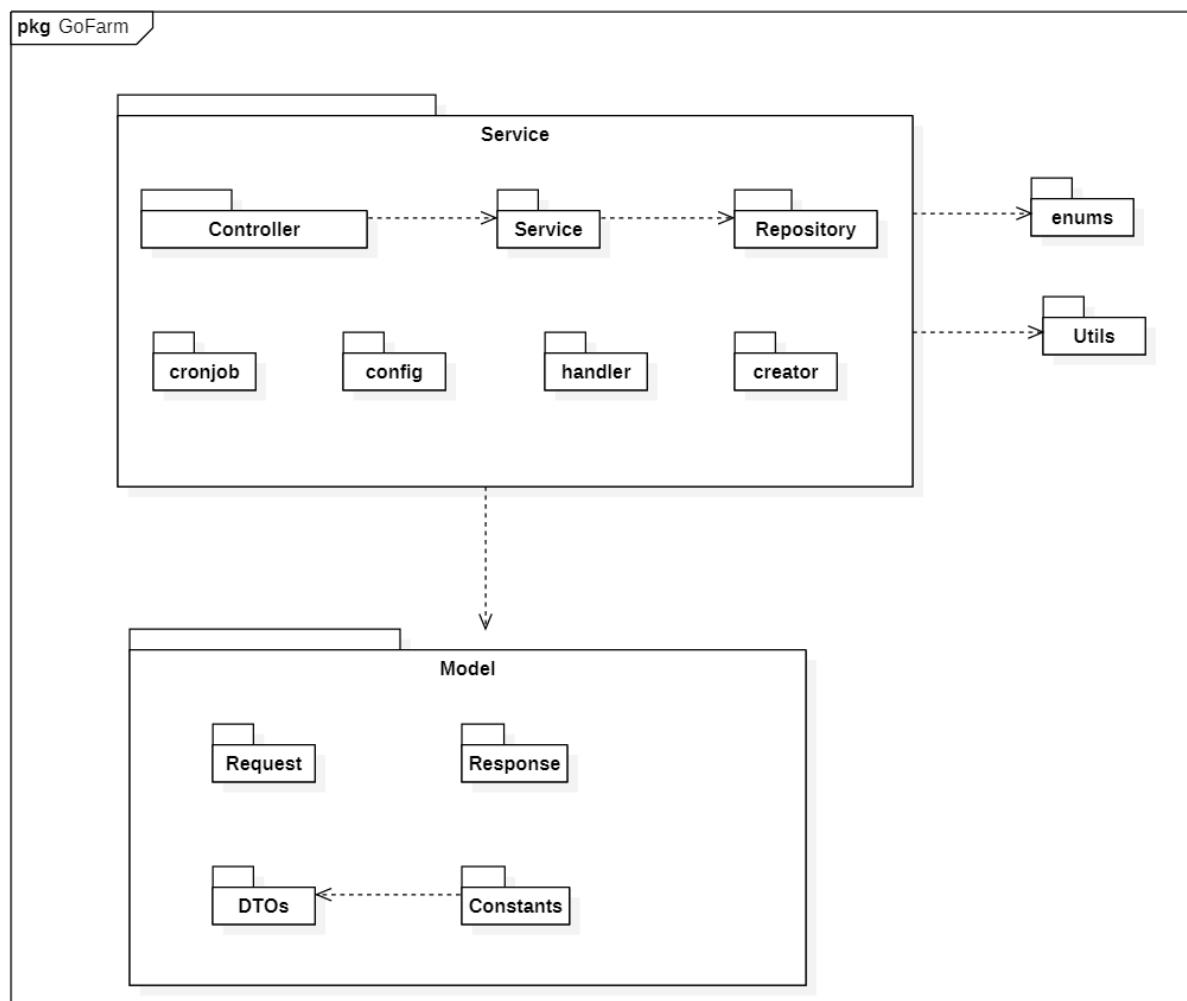


Figure 98 – Package Diagram

Package Descriptions

No	Package	Description
01	Controller	The package includes classes for handling HTTP requests and returning HTTP response
02	Service	The package includes classes responsible for handling business logic and data communication.
03	Repository	The package includes classes for data access and storage in database

04	Cronjob	The package includes classes for implementing scheduled tasks that run automatically at specific intervals. This include classes for setting up and configuring cronjobs, as well as classes for implementing the actual tasks that are executed
05	Config	The package includes classes for configuration
06	Handler	The package includes classes for handling exceptions
07	Creator	The package includes classes for creating objects and instances.
08	Request	The package includes classes for representing HTTP requests
09	Response	The package includes classes for representing HTTP response
10	DTOs	The package includes all the DTO models classes
11	Constants	The package includes classes for defining constant values
12	enums	The package includes classes for defining enumerated types.
13	Utils	The package includes all the utility of the application

Table 23 - Package Descriptions

2 Database Design

2.1 Database Diagram

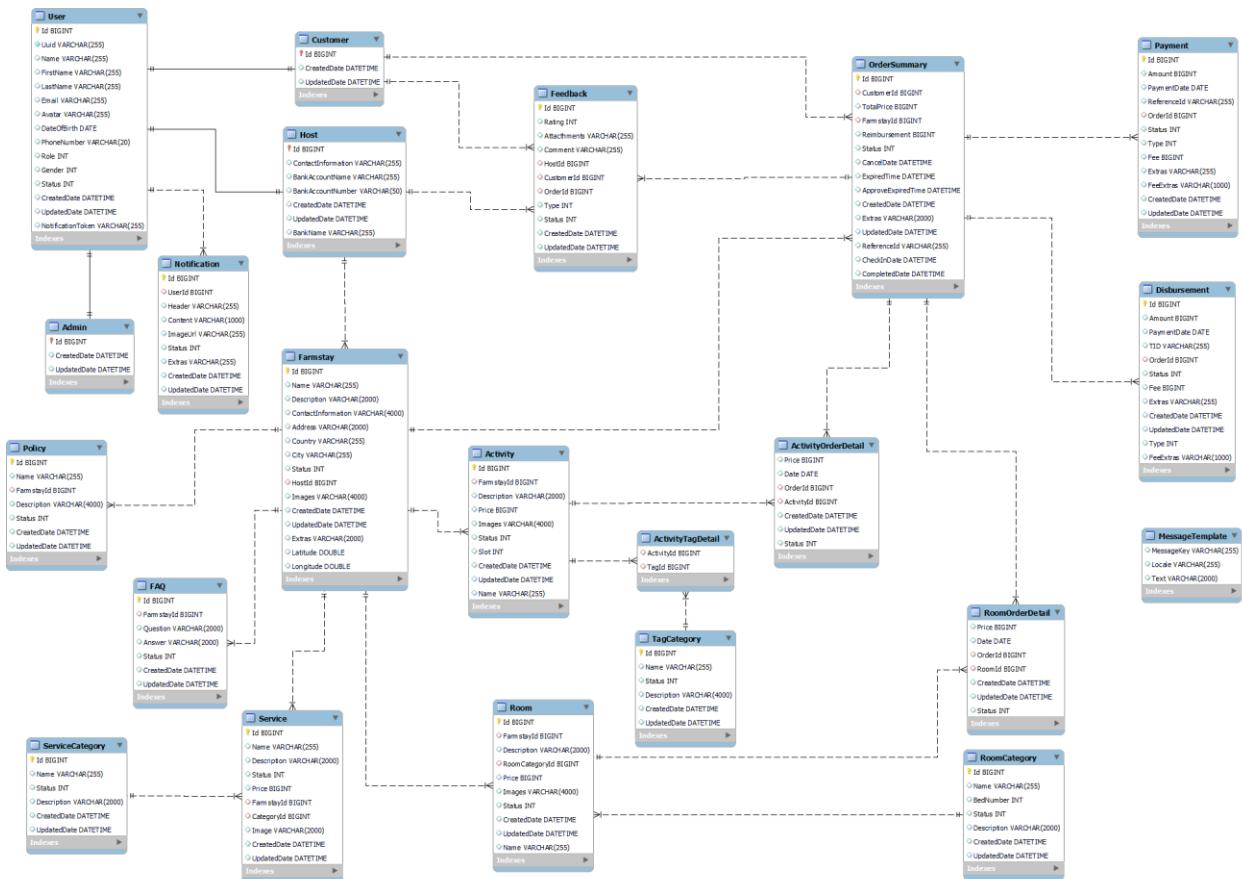


Figure 99 – Database Design

2.2 Data Dictionary

2.2.1 Admin

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of an admin
2	CreatedDate	DateTime		Created time of admin
3	UpdatedDate	DateTime		Updated time of admin

Table 24 - Admin

2.2.2 User

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a user

2	Uuid	varchar(255)	FK	A unique identifier for a user
3	Name	varchar(255)		The name of a user
4	FirstName	varchar(255)		The first name of a user
5	LastName	varchar(255)		The last name of a user
6	Email	varchar(255)		The email address of user
7	Avatar	varchar(255)		The avatar of user
8	DateOfBirth	Date		The date on which user was born.
9	PhoneNumber	varchar(20)		The phone number of user
10	Role	Int		Role of user
11	Gender	Int		User's gender identity
12	Status	Int		User account status information
13	CreatedDate	DateTime		Created time of user
14	UpdatedDate	DateTime		Updated time of user
15	Notification Token	varchar(255)		Unique identifier used to send push notifications

Table 25 - User

2.2.3 Host

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a host
2	ContactInfomation	Varchar(255)		Host's communication information
3	BankAccountName	Varchar(255)		Host's bank account name
4	BankAccountNumber	Varchar(50)		Host's bank account number
5	CreatedDate	DateTime		Created time of host

6	UpdatedDate	DateTime		Updated time of host
7	BankName	Varchar(255)		Host's bank name

Table 26 - Host

2.2.4 Customer

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a customer
2	CreatedDate	DateTime		Created time of customer
3	UpdatedDate	DateTime		Updated time of customer

Table 27 - Customer

2.2.5 Farmstay

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a farmstay
2	Name	varchar(255)		The name of a farmstay
3	Description	varchar(2000)		Description of Farmstay details
4	ContactInfomation	varchar(4000)		Farmstay 's communication information
5	Address	varchar(2000)		Address of farmstay
6	Country	varchar(255)		Country of farmstay
7	City	varchar(255)		City of farmstay
8	Status	int		Farmstay status information
9	HostId	bigint	FK	A unique, individual definition of a host
10	Images	varchar(4000)		Images of a farmstay
11	CreatedDate	DateTime		Created time of host
12	UpdatedDate	DateTime		Updated time of host

13	Extras	varchar(2000)		Additional data
14	Latitude	double		It is used to identify a specific location on a map
15	Longitude	double		It is used to identify a specific location on a map

Table 28 - Farmstay

2.2.6 Feedback

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a feedback
2	Rating	int		The rating system for farmstays
3	Attachments	varchar(255)		Attachments of a farmstay
4	Comment	varchar(255)		Farmstay's communication information
5	HostId	bigint	FK	A unique identifier to a host
6	CustomerId	bigint	FK	A unique identifier for a customer
7	OrderId	bigint	FK	A unique identifier for an order
8	Type	int		Type of feedback
9	Status	int		Feedback status information
10	CreatedDate	DateTime		Created time of feedback
11	UpdatedDate	DateTime		Updated time of feedback

Table 29 - Feedback

2.2.7 Policy

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a policy
2	Name	varchar(255)		The name of a policy
3	FarmstayId	bigint	FK	A unique, individual definition of a farmstay

4	Description	varchar(4000)		Description of policy details
9	Status	int		Policy status information
10	CreatedDate	DateTime		Created time of policy
11	UpdatedDate	DateTime		Updated time of policy

Table 30 - Policy

2.2.8 FAQ

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a faq (Frequently Asked Questions)
2	FarmstayId	bigint	FK	A unique, individual definition of a farmstay
3	Question	varchar(255)		Questions for farmstay
4	Answer	varchar(255)		Answer for questions in farmstay
5	Status	Int		Faq status information
6	CreatedDate	DateTime		Created time of faq
7	UpdateDate	DateTime		Updated time of faq

Table 31 - FAQ

2.2.9 Service

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a service
2	Name	varchar(255)		The name of a service
3	Description	varchar(2000)		Description of service details
4	Status	tinyint		Service status information
5	Price	bigint		The price of service

6	FarmstayId	bigint	FK	A unique, individual definition of a farmstay
7	CategoryId	bigint	FK	A unique, individual definition of a category
8	Image	varchar(2000)		Images of a service
9	CreatedDate	DateTime		Created time of faq
10	UpdatedDate	DateTime		Updated time of faq

Table 32 - Service

2.2.10 ServiceCategory

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a service category
2	Name	varchar(255)		The name of a service category
3	Description	varchar(2000)		Description of service category
4	Status	int		Service category status information
8	CreatedDate	DateTime		Created time of service category
9	UpdatedDate	DateTime		Updated time of service category

Table 33 - Service Category

2.2.11 OrderSummary

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of an order
2	CustomerId	bigint	FK	A unique, individual definition of an customer
3	TotalPrice	bigint		Total price in order
4	FarmstayId	Bigint		A unique, individual definition of a farmstay
5	Reimbursement	bigint		The reimbursement of order

6	Status	int		Order status information
7	CancelDate	DateTime		Order cancel date
8	ExpiredTime	DateTime		Order expiration date
9	ApproveExpiredTime	DateTime		Order approve expired time
10	CreatedDate	DateTime		Created time of order
11	Extras	varchar(2000)		Additional data
12	UpdatedDate	DateTime		Updated time of order
13	Referenceld	varchar(255)		Referenceld means a unique identifier assigned to a specific entity
14	CheckInDate	DateTime		Check in date
15	CompletedDate	DateTime		Completed date

Table 34 - Order Summary

2.2.12 RoomOrderDetail

No	Attribute	Data Type	PK/FK	Descriptions
1	Price	bigint	PK	Details of room order pricing
2	Date	Date		Date of room order detail
3	OrderId	bigint	FK	A unique, individual definition of an order
4	RoomId	bigint	FK	A unique, individual definition of a room
5	CreatedDate	DateTime		Created time of room order detail
6	UpdatedDate	DateTime		Updated time of room order detail
7	Status	Int		Room order detail status

Table 35 - Room Order Detail

2.2.13 Room

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of an room
2	FarmstayId	bigint	FK	A unique, individual definition of a farmstay
3	Description	varchar(2000)		Description of room
4	Name	varchar(255)		Name of room
5	RoomCategoryId	bigint		A unique, individual definition of room category
6	Price	bigint		Details of room pricing
7	Images	Varchar(4000)		Images of room
8	Status	int		Room status information
9	CreatedDate	DateTime		Created time of room
10	UpdatedDate	DateTime		Updated time of room

Table 36 - Room

2.2.14 RoomCategory

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a room category
2	Name	varchar(255)		The name of room category
3	BedNumber	int		Number of beds in the room
4	Status	int		Room status information
5	Description	varchar(2000)		Description of room category
6	CreatedDate	DateTime		Created time of room category
7	UpdatedDate	DateTime		Updated time of room category

Table 37 - Room Category

2.2.15 ActivityOrderDetail

No	Attribute	Data Type	PK/FK	Descriptions
1	Price	bigint	PK	Details of activity order pricing
2	Date	Date		Date of activity order detail
3	OrderId	bigint	FK	A unique, individual definition of an order
4	ActivityId	bigint	FK	A unique, individual definition of an activity
5	CreatedDate	DateTime		Created time of activity order detail
6	UpdatedDate	DateTime		Updated time of activity order detail
7	Status	Int		Activity order detail status

Table 38 - Activity Order Detail

2.2.16 Activity

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of an activity
2	FarmstayId	bigint	FK	A unique, individual definition of a farmstay
3	Description	Varchar(2000)		Description about activity
4	Name	Varchar(255)		Name of activity
5	Price	bigint		Details of activity pricing
6	Images	Varchar(4000)		Images of activity
7	Status	int		Activity status information
8	Slot	int		Slot of an activity
9	CreatedDate	DateTime		Created time of activity
10	UpdatedDate	DateTime		Updated time of activity

Table 39 - Activity

2.2.17 ActivityTagDetail

No	Attribute	Data Type	PK/FK	Descriptions
1	ActivityId	bigint	FK	A unique, individual definition of an activity
2	TagId	bigint	FK	A unique, individual definition of a tag

Table 40 - Activity Tag Detail

2.2.18 TagCategory

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a tag category
2	Name	varchar(255)		The name of tag category
4	Status	tinyint		Tag status information
5	Description	varchar(2000)		Description of room category
6	CreatedDate	DateTime		Created time of tag category
7	UpdatedDate	DateTime		Updated time of tag category

Table 41 - Tag Category

2.2.19 Disbursement

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a disbursement
2	Amount	bigint		The amount of disbursement
3	PaymentDate	Date		Date of payment disbursement
4	TID	varchar(255)		A unique, individual definition of a transaction
5	OrderId	bigint	FK	A unique, individual definition of an order
6	Status	tinyint		Disbursement status information

7	Fee	bigint		Fee
8	Extras	varchar(255)		Extras of disbursement
9	CreatedDate	DateTime		Created time of disbursement
10	UpdatedDate	DateTime		Updated time of disbursement
11	Type	Int		Type of disbursement
12	FeeExtras	Varchar(1000)		Fee extras of disbursement

Table 42 - Disbursement

2.2.20 Payment

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint	PK	A unique, individual definition of a payment
2	Amount	bigint		The amount of payment
3	PaymentDate	Date		Tag status information
4	Referenceld	Varchar(255)		Referenceld means a unique identifier assigned to a specific entity
5	OrderId	bigint	FK	A unique, individual definition of an order
6	Type	tinyint		Type of payment
7	Status	tinyint		Payment status information
8	Fee	bigint		Fee
9	Extras	varchar(255)		Extras of payment
10	FeeExtras	varchar(1000)		Fee extras of payment
11	CreatedDate	DateTime		Created time of payment
12	UpdatedDate	DateTime		Updated time of payment

Table 43 – Payment

2.2.21 MessageTemplate

No	Attribute	Data Type	PK/FK	Descriptions
1	MessageKey	varchar(255)		Identifier for message template
2	Locale	varchar(255)		Language Code
3	Text	varchar(2000)		Message content

Table 44 – MesageTemplate

2.2.22 Notification

No	Attribute	Data Type	PK/FK	Descriptions
1	Id	bigint		A unique, individual definition of a notification
2	UserId	bigint		A unique, individual definition of user
3	Header	varchar(255)		The title or subject of the notification message.
4	Content	varchar(1000)		The content of the notification message.
5	ImageUrl	varchar(255)		The URL of an image to be included in the notification.
6	Status	int		Notification status information
7	Extras	varchar(255)		Extras of notification
8	CreatedDate	DateTime		Created time of notification
9	UpdatedDate	DateTime		Updated time of notification

Table 45 - Notification

3 Detailed Design

3.1 Management Farmstay Feature

3.1.1 Class diagram

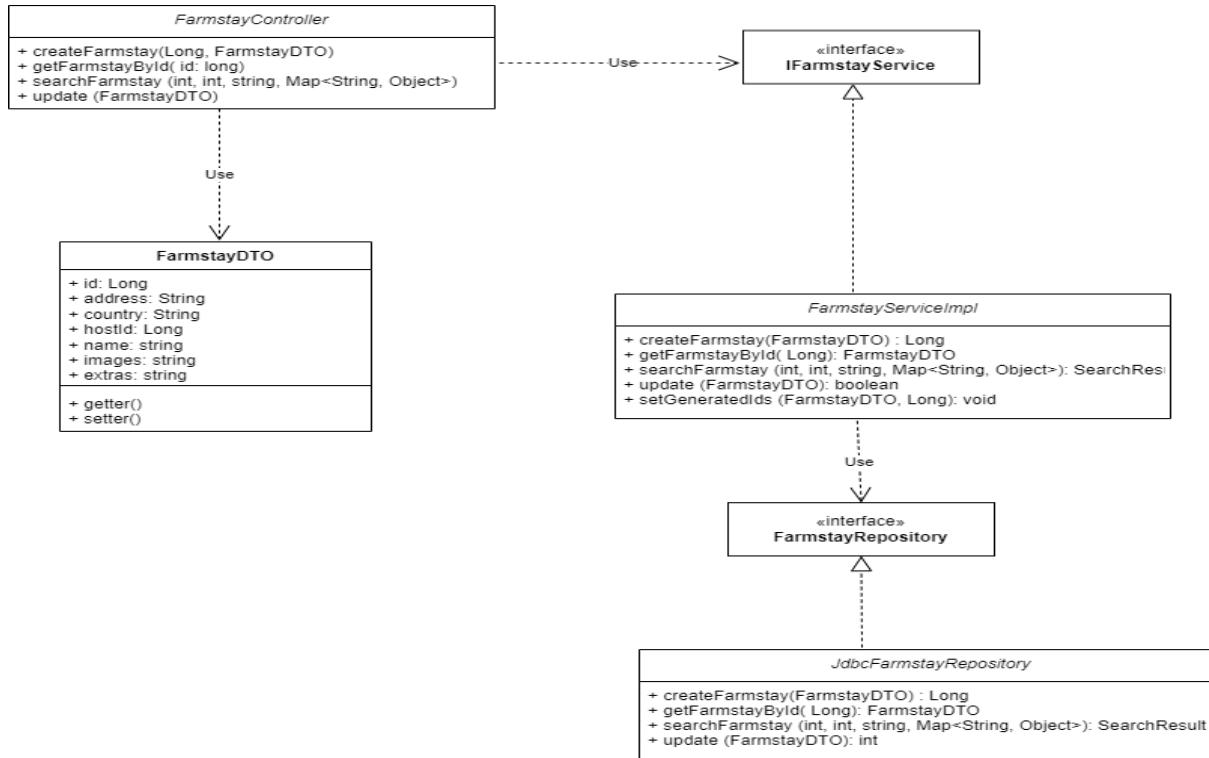


Figure 100 – Class Diagram Management Farmstay

3.1.2 <Host>Create Farmstay Sequence Diagram

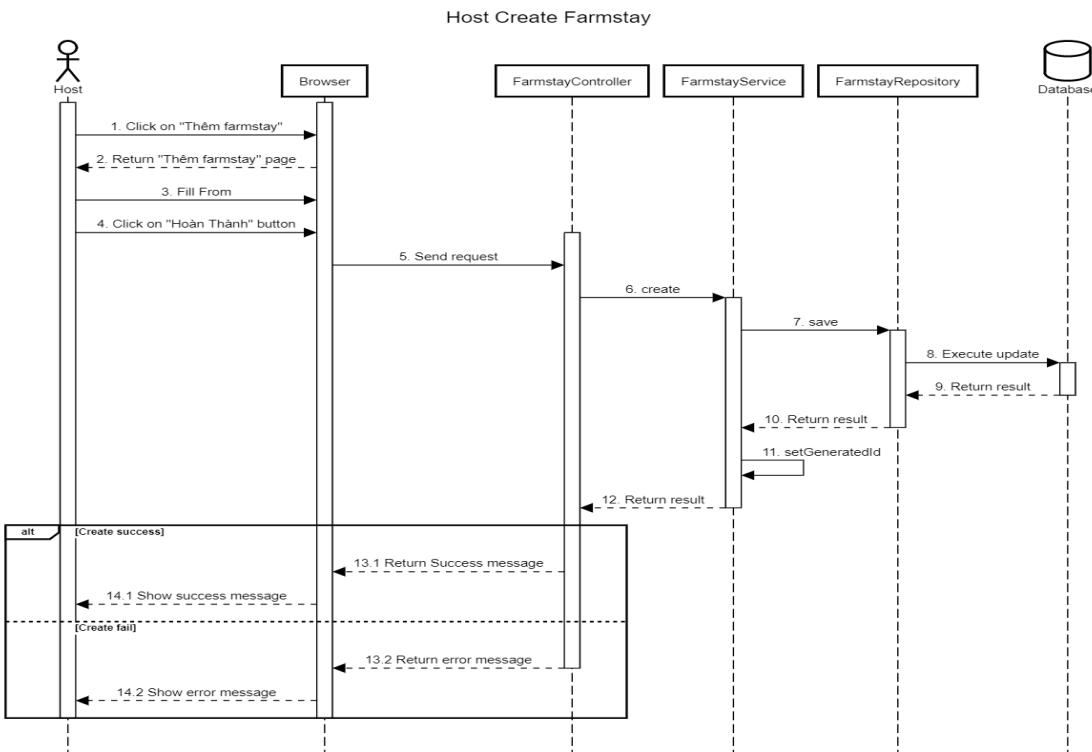


Figure 101 - Create Farmstay Sequence Diagram

3.1.3 <Host>View Farmstay Sequence Diagram

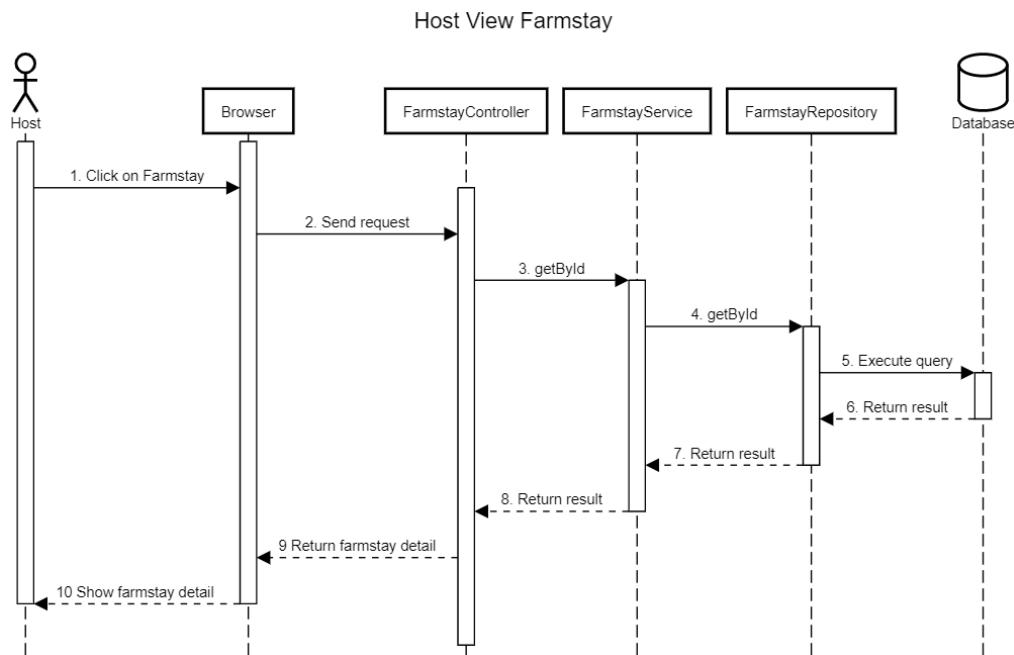


Figure 102 – View Farmstay Sequence Diagram

3.1.4 <Host>Update Farmstay Sequence Diagram

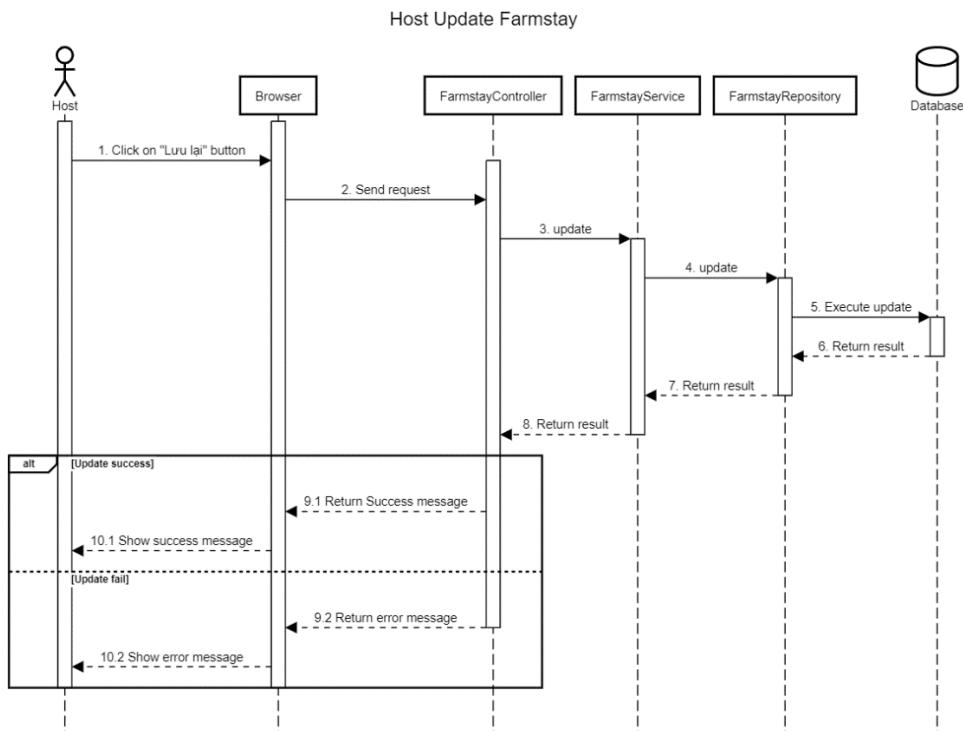


Figure 103 – Update Farmstay Sequence Diagram

3.1.5 <Host>Send Review Farmstay Sequence Diagram

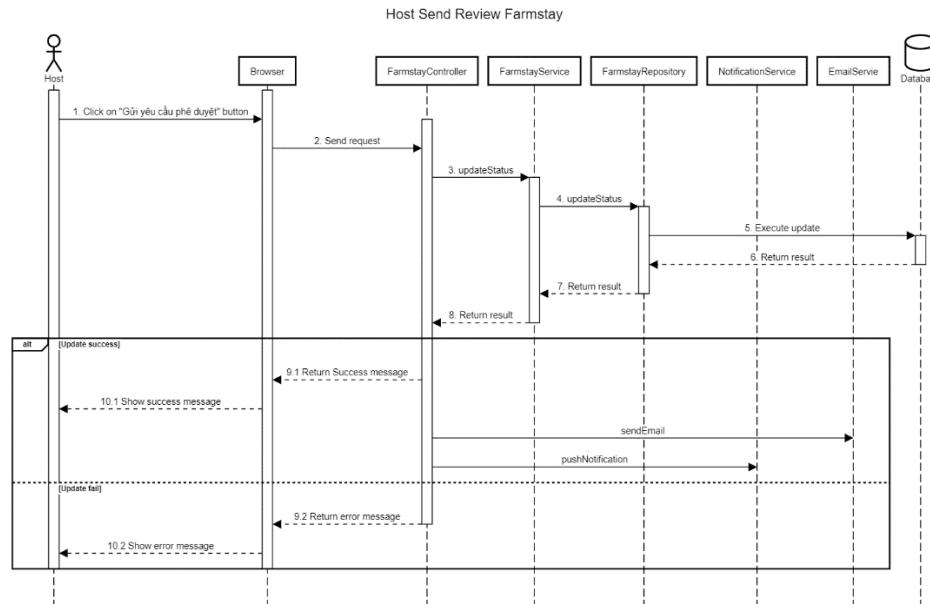


Figure 104 – View Farmstay Detail Sequence Diagram

3.2 Management Activity Feature

3.2.1 Class diagram

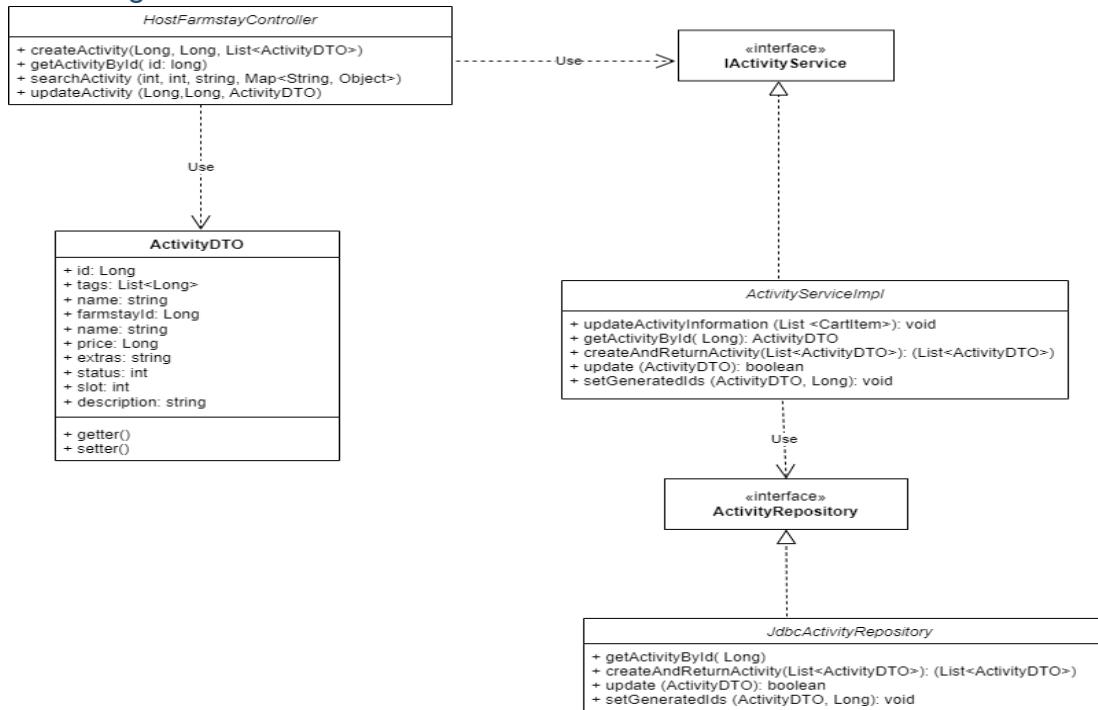


Figure 105 - Class Diagram Management Activity

3.2.2 <Host> Create Activity Sequence Diagram

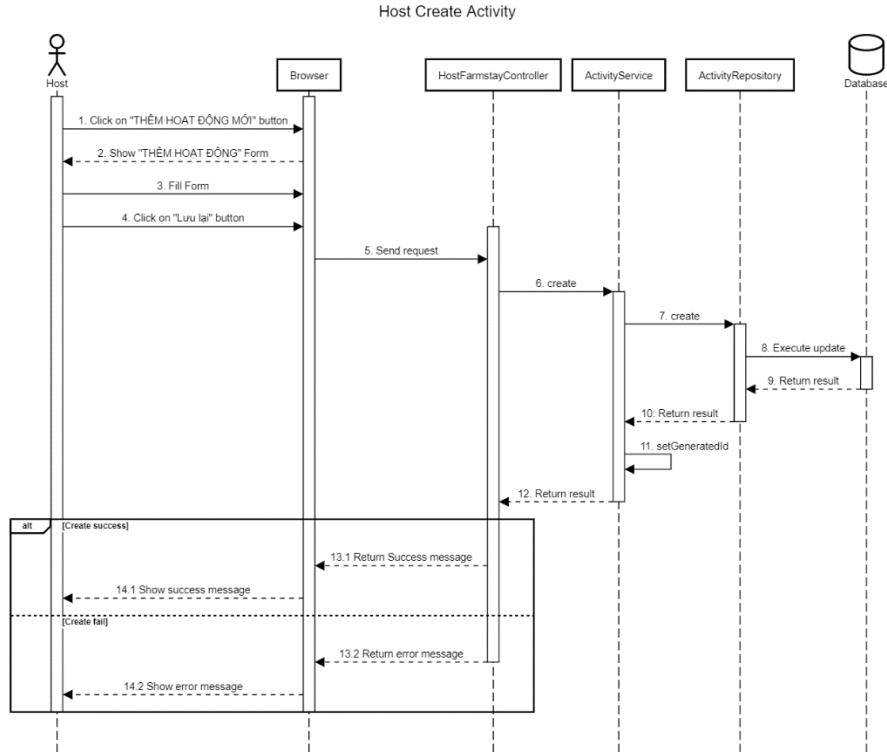


Figure 106 – Create Activity Sequence Diagram

3.2.3 <Host> Update Activity Sequence Diagram

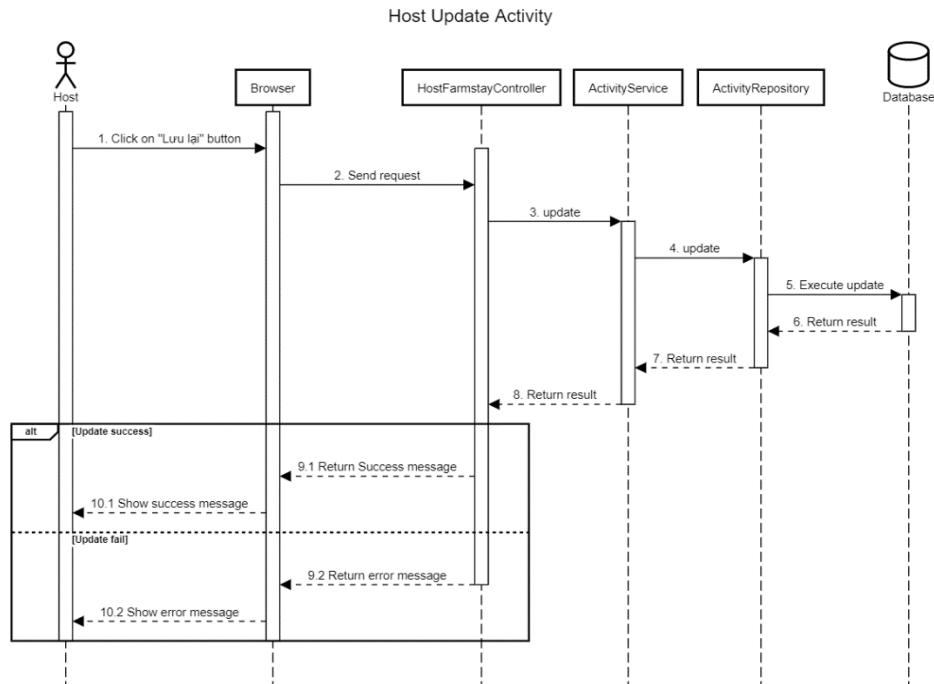


Figure 107 - Update Activity Sequence Diagram

3.3 Management Policy Feature

3.3.1 Class diagram

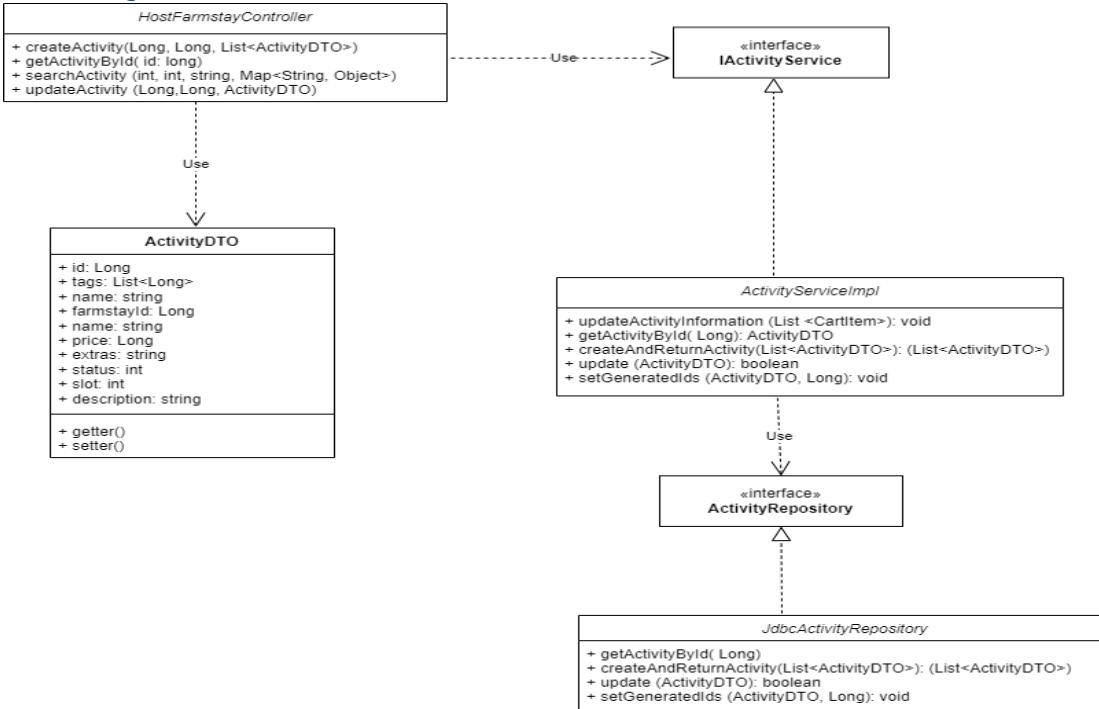


Figure 108 - Class Diagram Management Policy

3.3.2 <Host> Create Policy Sequence Diagram

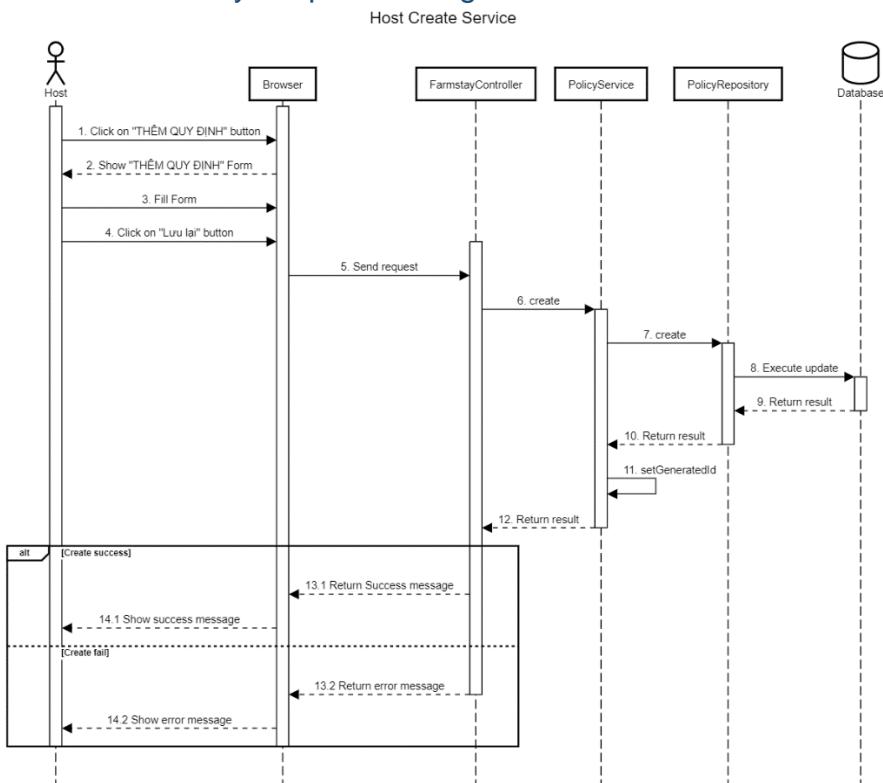


Figure 109 – Create Policy Sequence Diagram

3.3.3 <Host> Update Policy Sequence Diagram

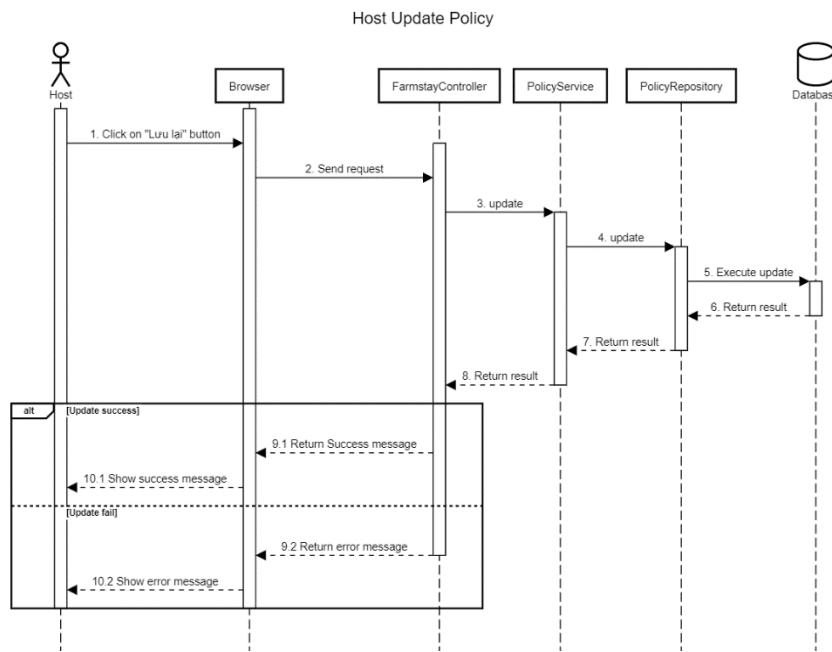


Figure 110 - Update Policy Sequence Diagram

3.4 Management Room Feature

3.4.1 <Host> Create Room Sequence Diagram

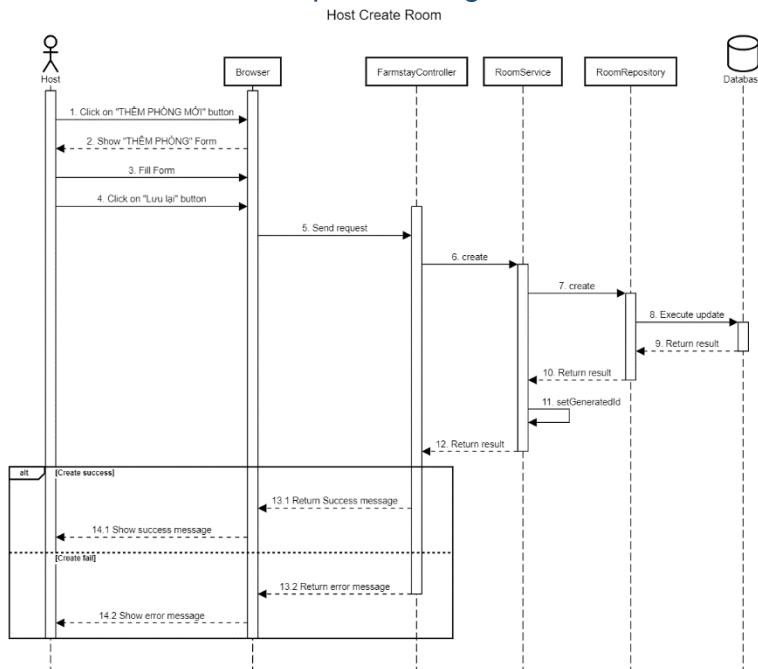


Figure 111 – Create Room Sequence Diagram

3.4.2 <Host> Update Room Sequence Diagram

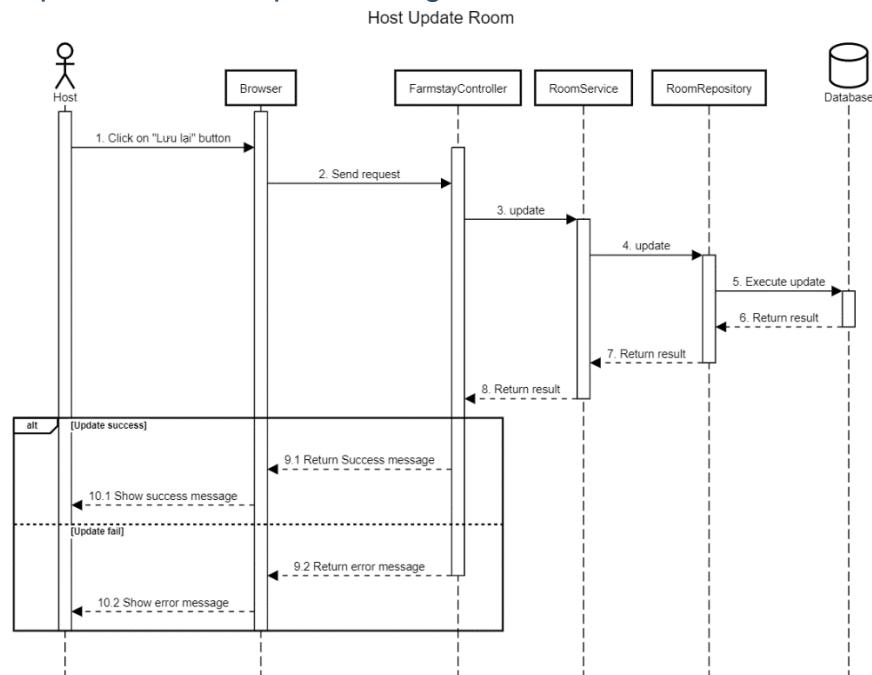


Figure 112 - Update Room Sequence Diagram

3.5 Management Service Feature

3.5.1 <Host> Create Service Sequence Diagram

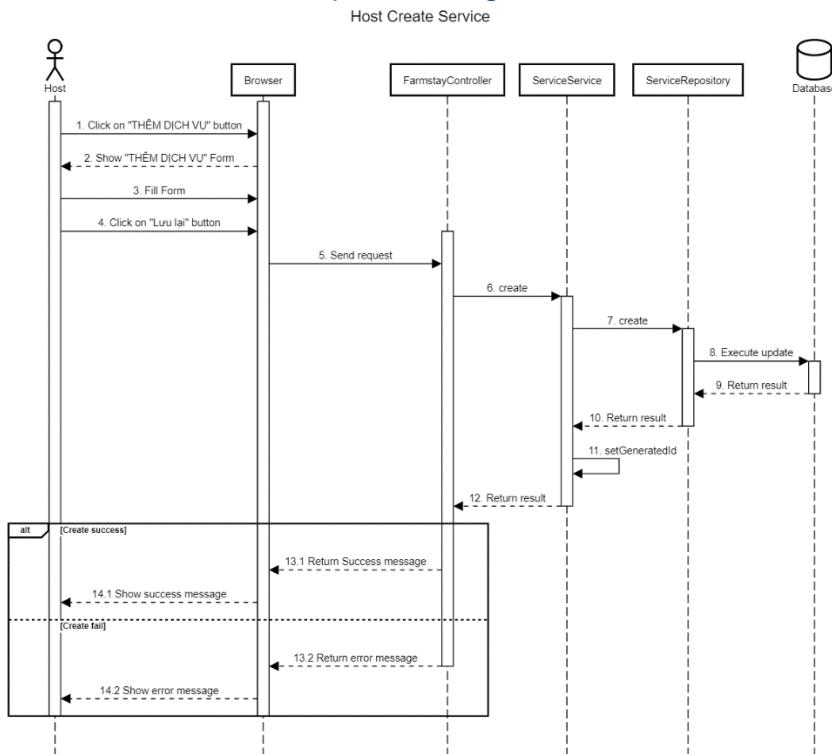


Figure 113 – Create Service Sequence Diagram

3.5.2 <Host> Update Service Sequence Diagram

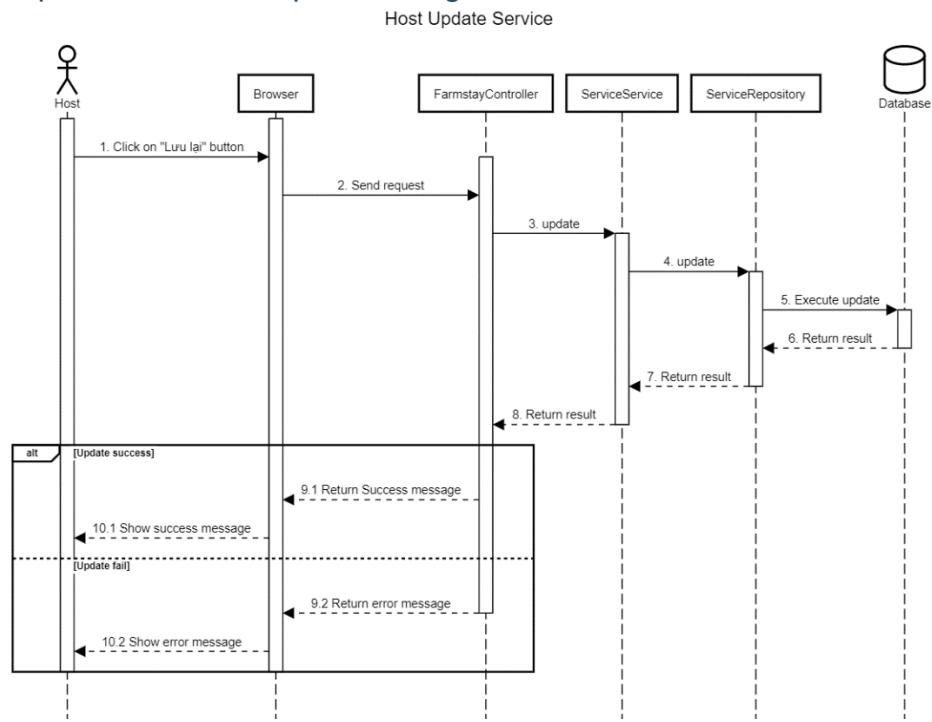


Figure 114 - Update Service Sequence Diagram

3.6 Management FAQ Feature

3.6.1 <Host> Create Faq Sequence Diagram

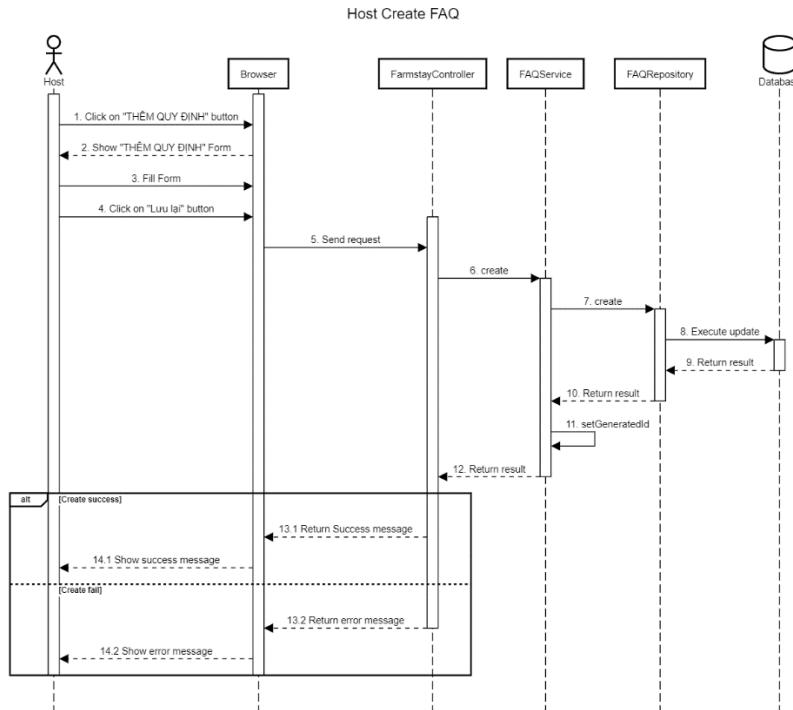


Figure 115 – Create Faq Sequence Diagram

3.6.2 <Host> Update Faq Sequence Diagram

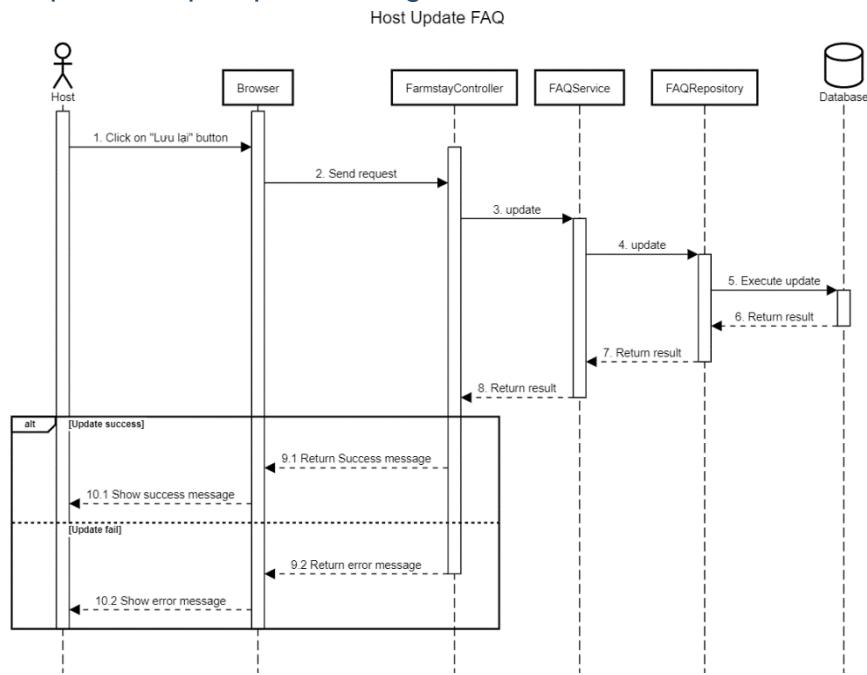


Figure 116 - Update Faq Sequence Diagram

3.7 Management Profile Feature

3.7.1 <Host> View Profile Sequence Diagram

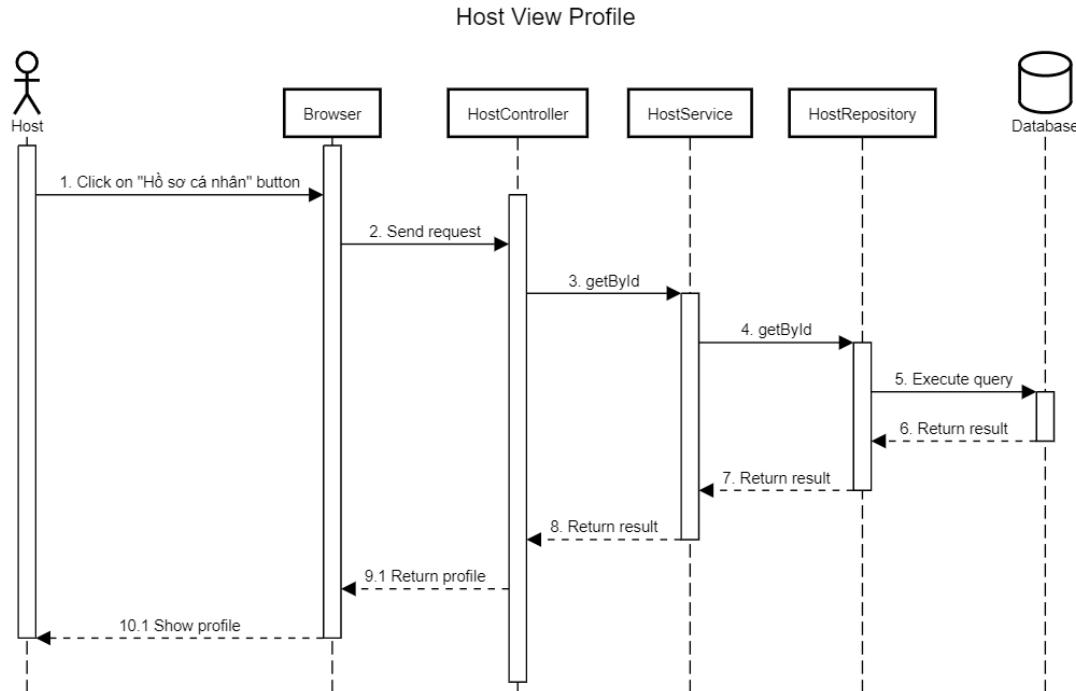


Figure 117 – View Profile Sequence Diagram

3.7.2 <Host> Update Profile Sequence Diagram

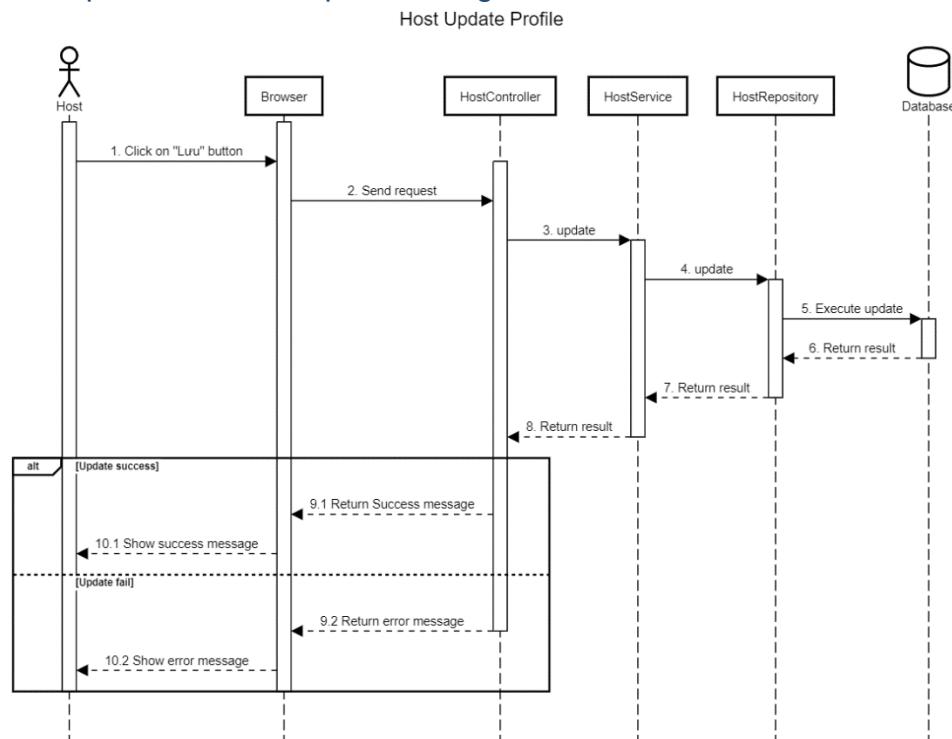


Figure 118 - Update Profile Sequence Diagram

3.8 Management Booking Feature

3.8.1 <Host> Accept Booking Sequence Diagram

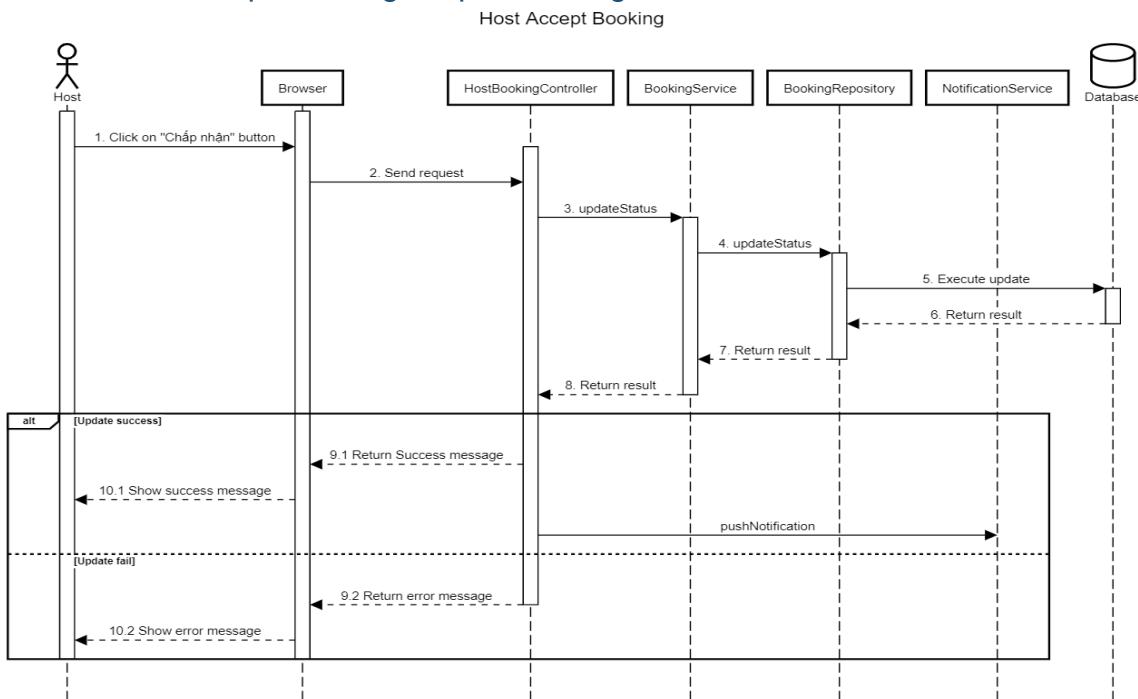


Figure 119 – Accept Booking Sequence Diagram

3.8.2 <Host> Reject Booking Sequence Diagram

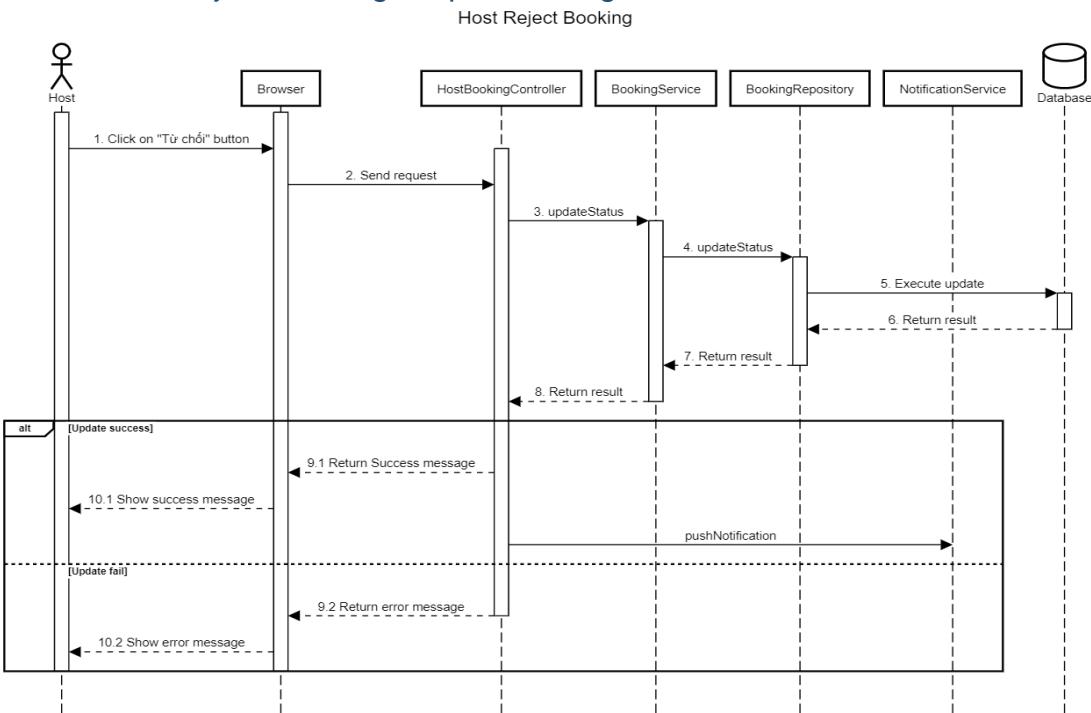


Figure 120 – Reject Booking Sequence Diagram

3.8.3 <Host> View Booking Sequence Diagram

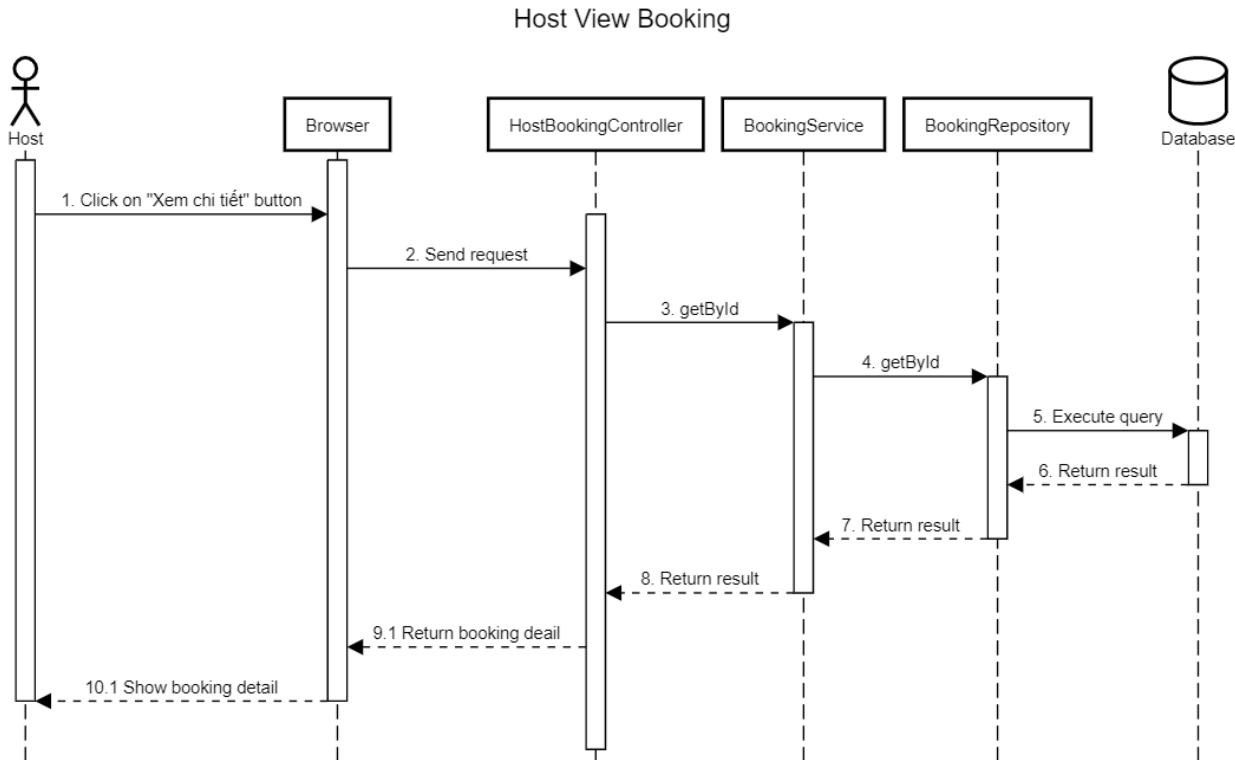


Figure 121 – View Booking Sequence Diagram

3.9 Management Service Category Feature

3.9.1 Class diagram

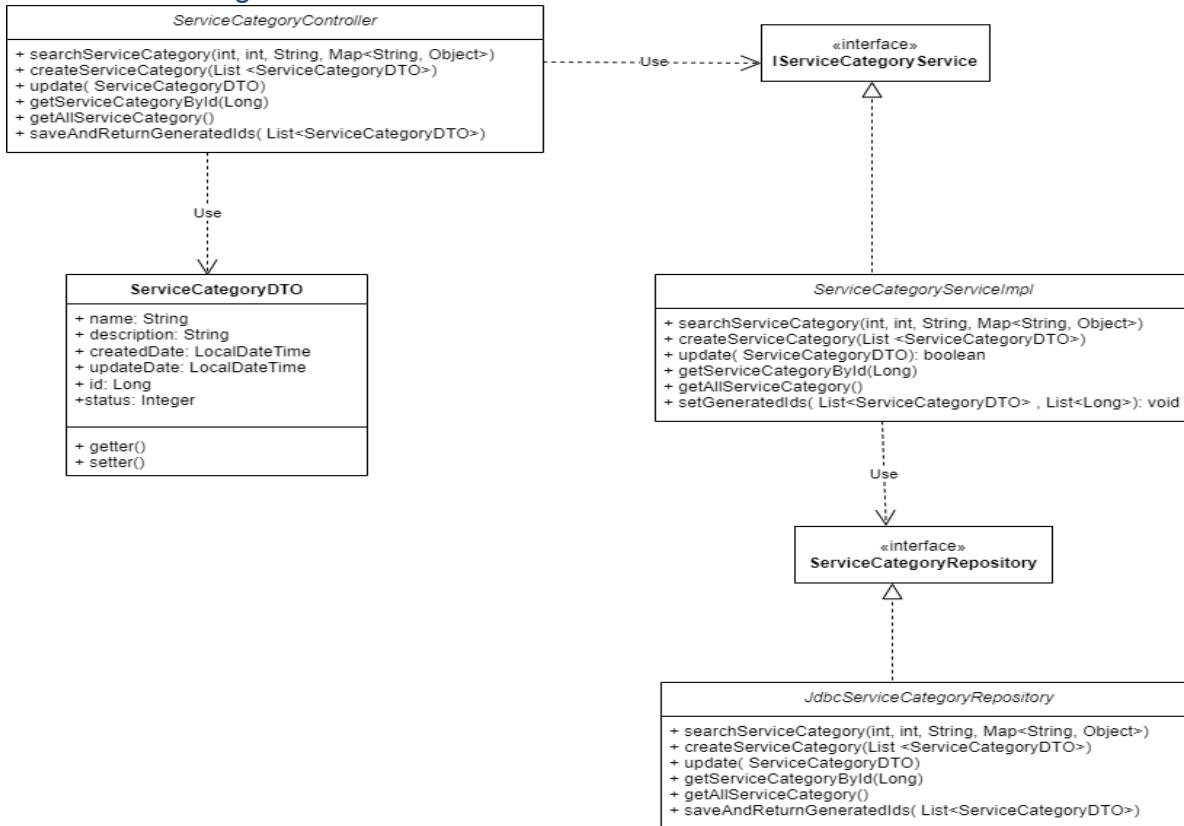


Figure 122 - Class Diagram Management Service Category Feature

3.9.2 <Admin> Create Service Category Sequence Diagram

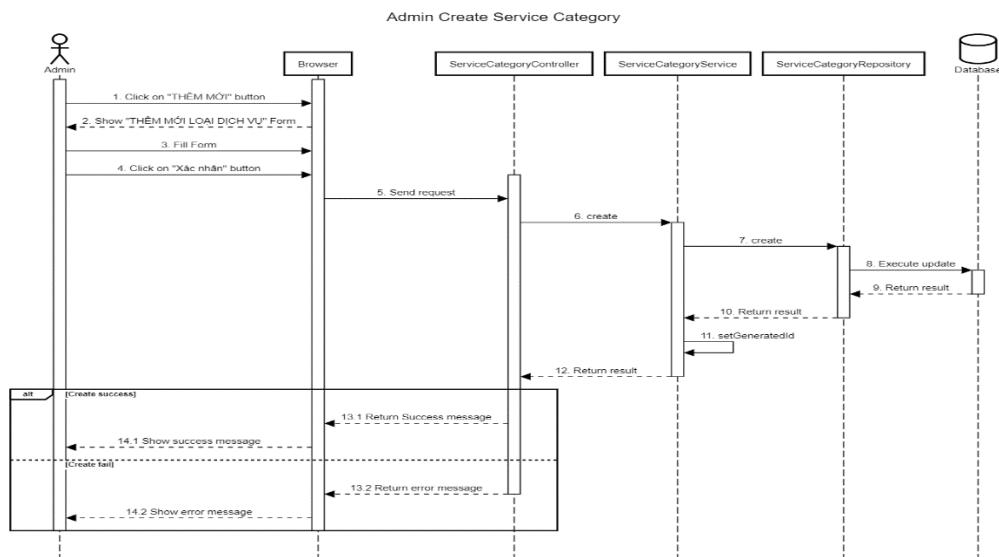


Figure 123 - Create Service Category Sequence Diagram

3.9.3 <Admin> Update Service Category Sequence Diagram

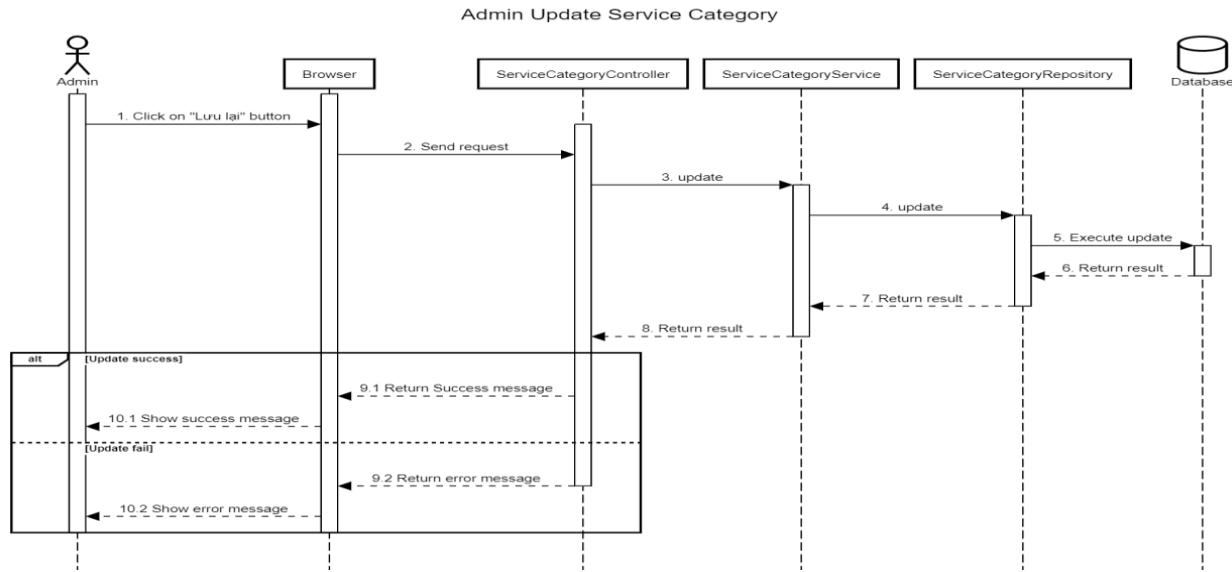


Figure 124 - Update Service Category Sequence Diagram

3.10 Management Room Category Feature

3.10.1 <Admin> Create Room Category Sequence Diagram

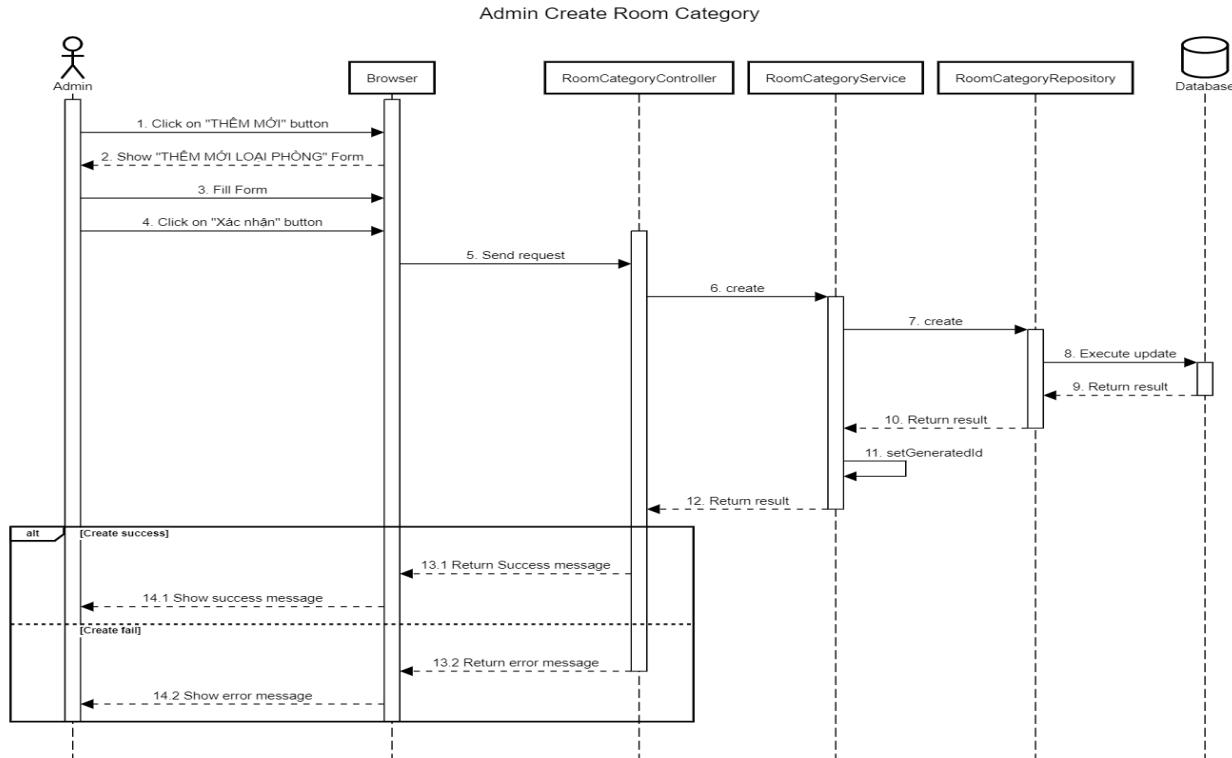


Figure 125 - Create Room Category Sequence Diagram

3.10.2 <Admin> Update Room Category Sequence Diagram

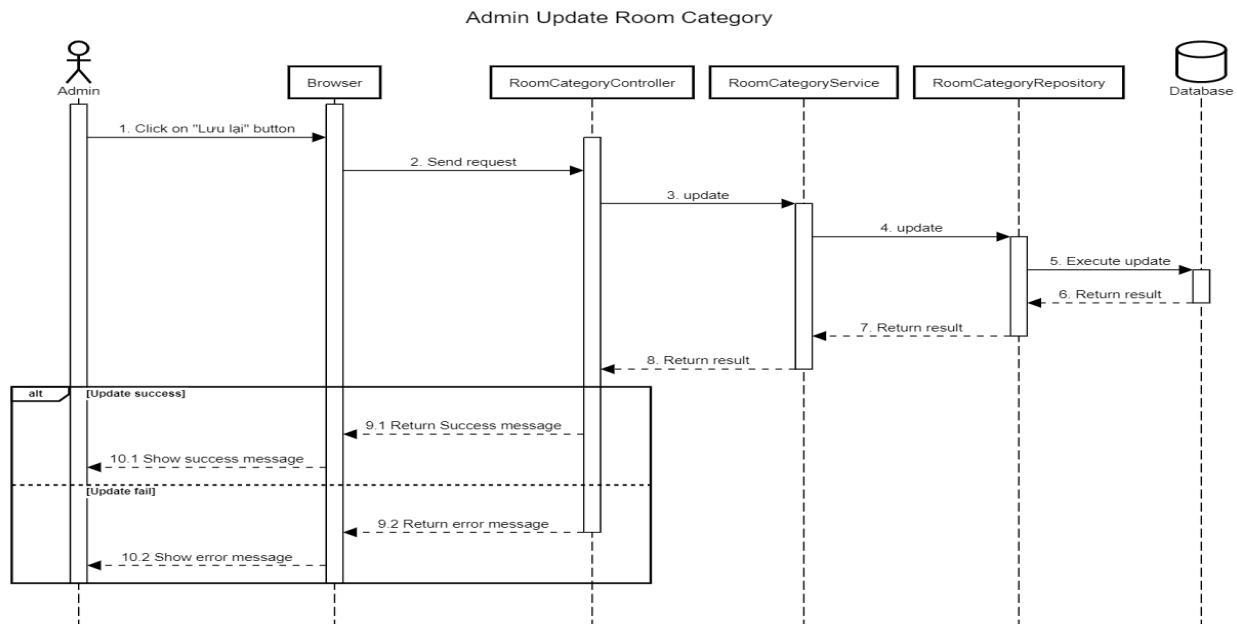


Figure 126 - Update Service Category Sequence Diagram

3.11 Management Tag Category Feature

3.11.1 <Admin> Create Tag Category Sequence Diagram

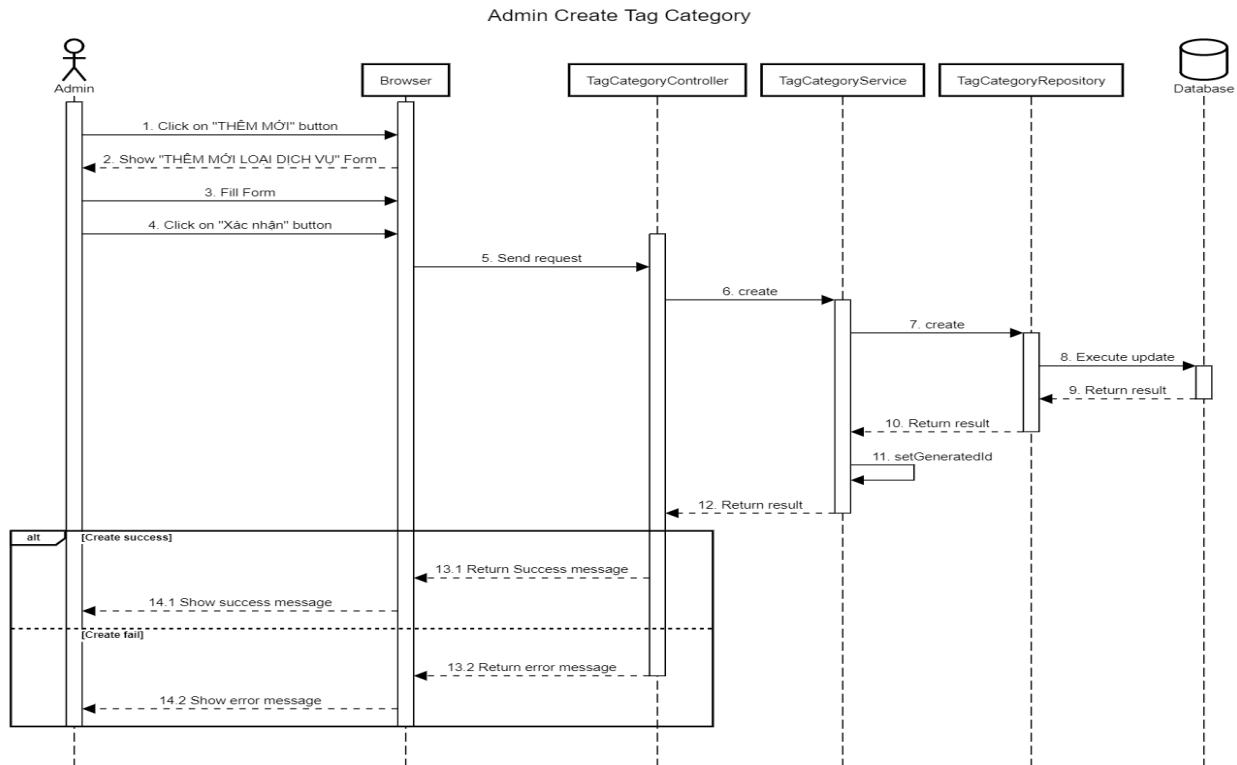


Figure 127 - Create Tag Category Sequence Diagram

3.11.2 <Admin> Update Tag Category Sequence Diagram

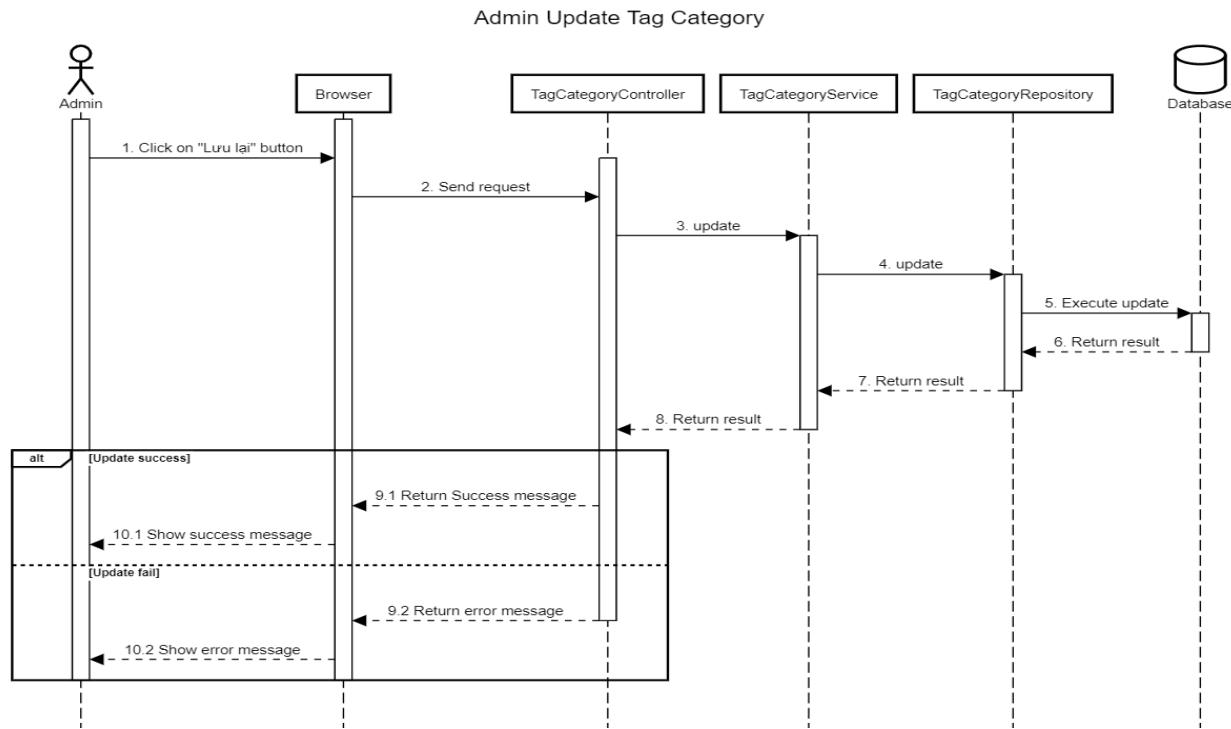


Figure 128 - Update Tag Category Sequence Diagram

3.12 Management Customer Feature

3.12.1 <Admin> View Customer Sequence Diagram

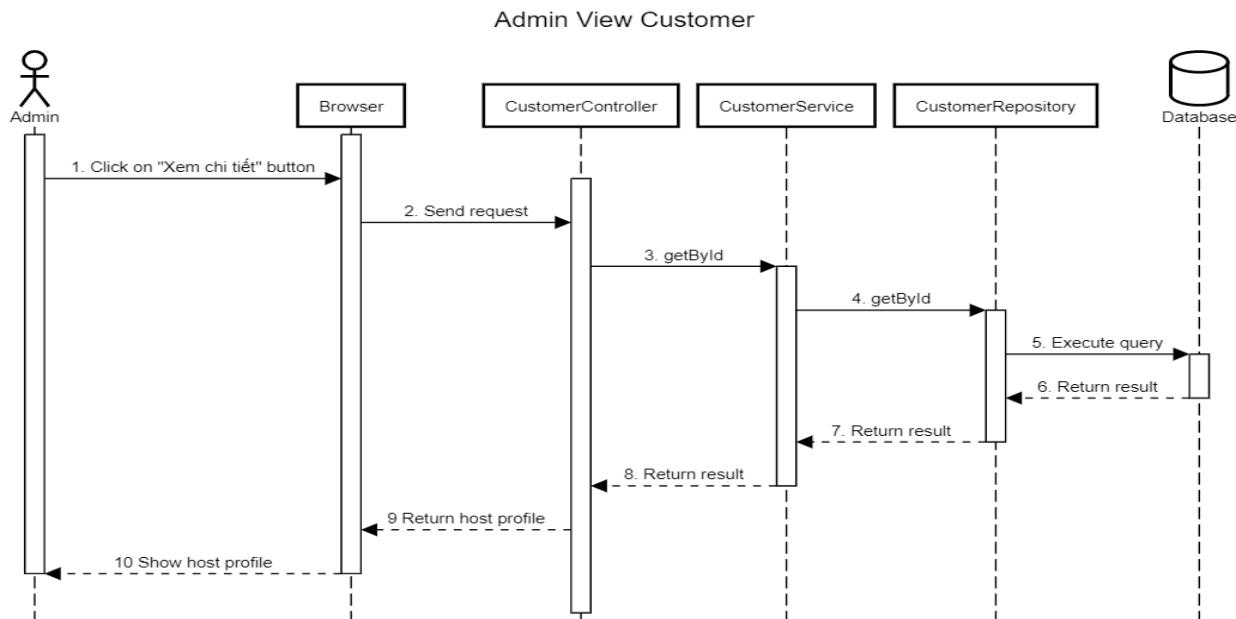


Figure 129 – View Customer Sequence Diagram

3.12.2 <Admin> Ban/Unban Customer Sequence Diagram

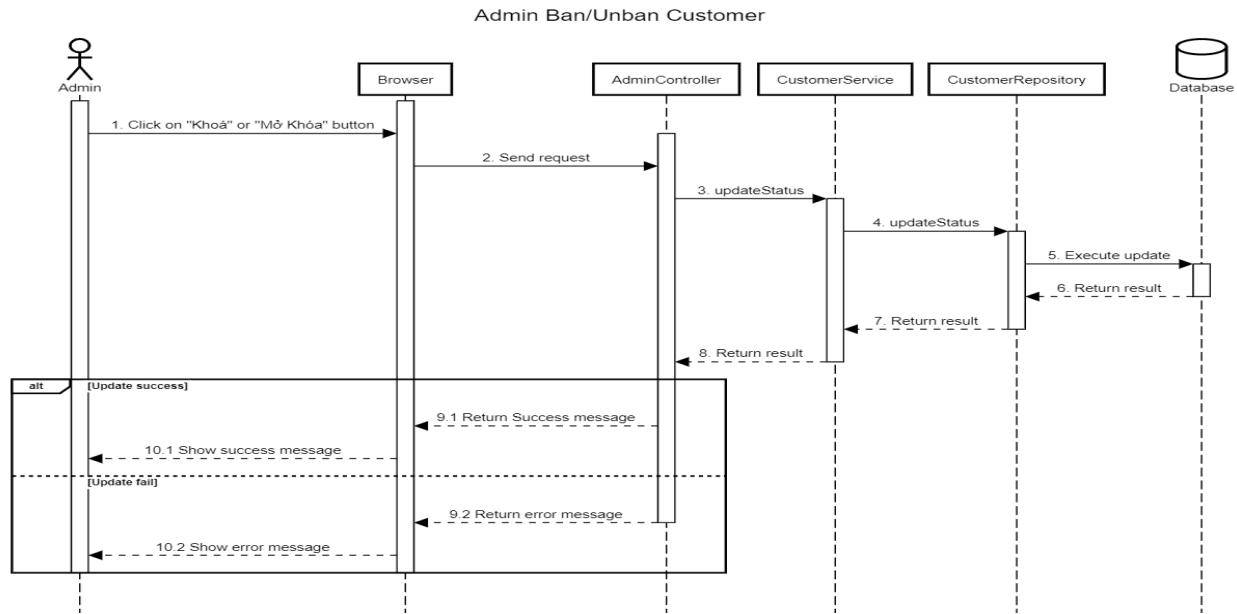


Figure 130 – Ban/Unban Customer Sequence Diagram

3.13 Management Host Feature

3.13.1 <Admin> View Host Sequence Diagram

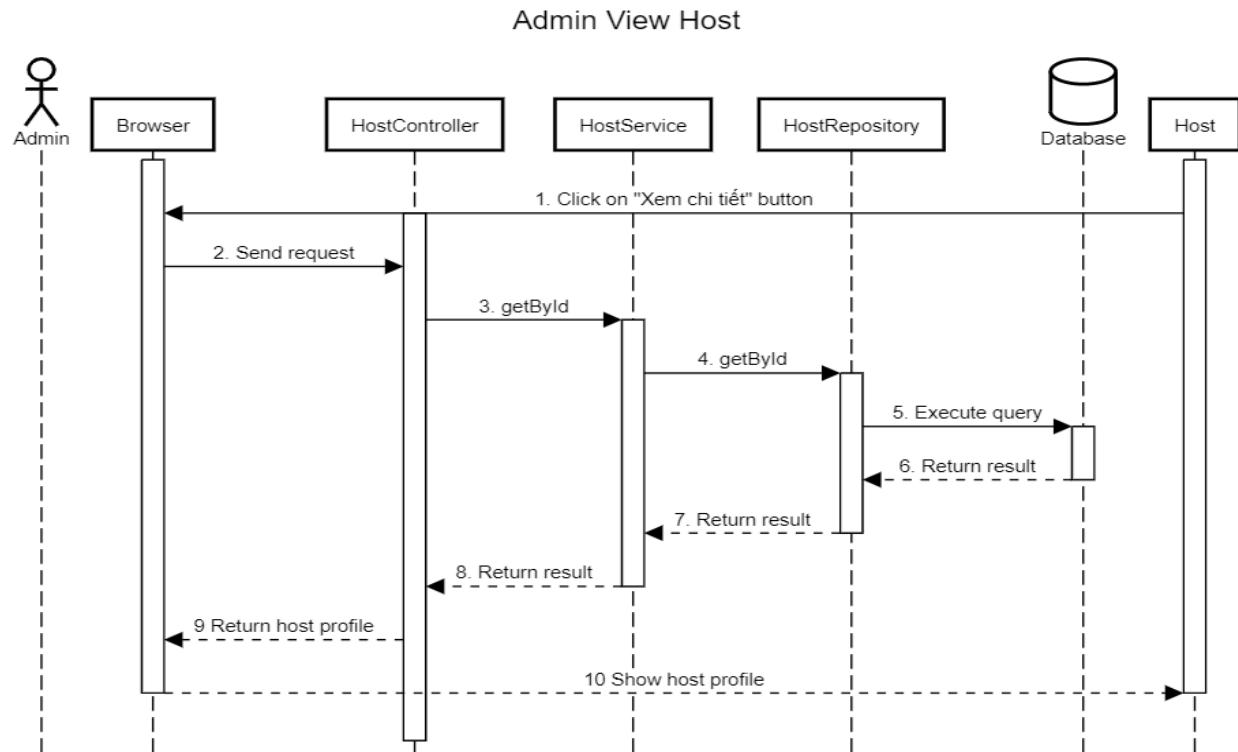


Figure 131 – View Host Sequence Diagram

3.13.2 <Admin> Ban/Unban Host Sequence Diagram

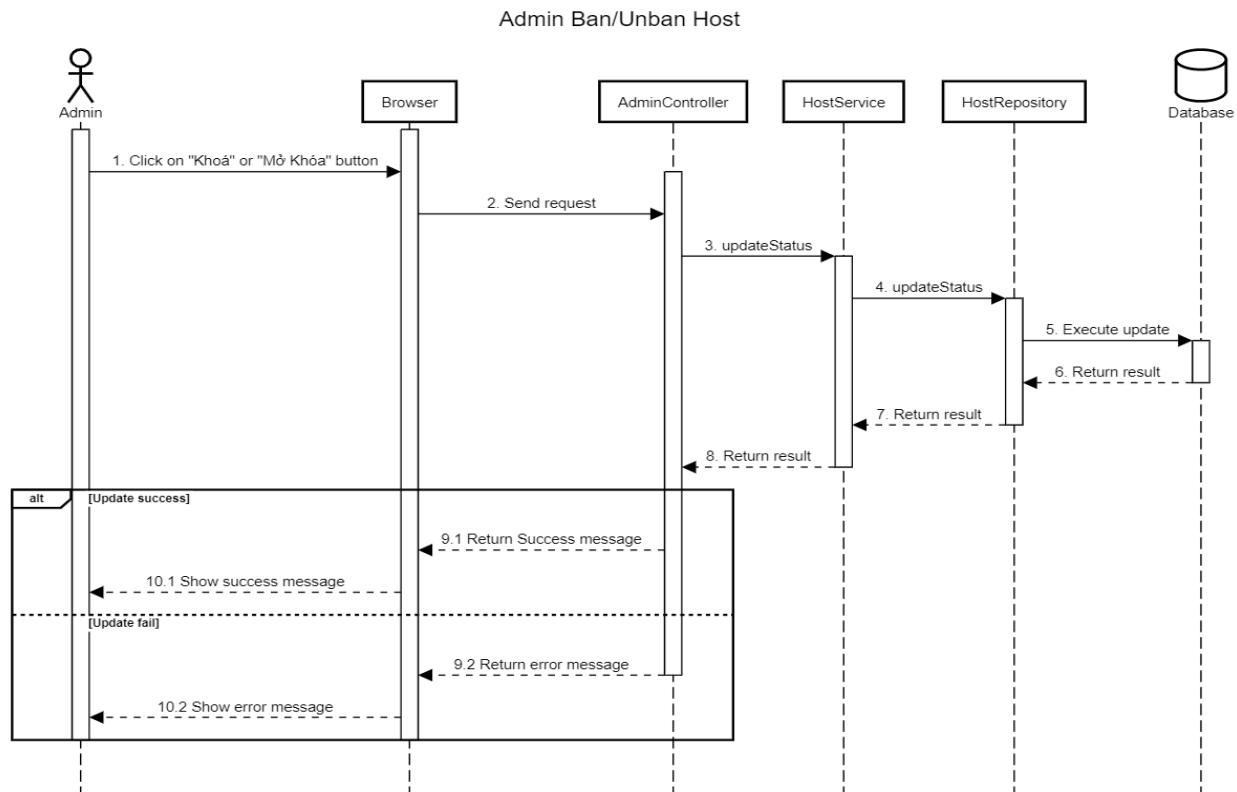


Figure 132 – Ban/Unban Host Sequence Diagram

3.14 Management Booking Feature

3.14.1 <Customer> Create Booking Sequence Diagram

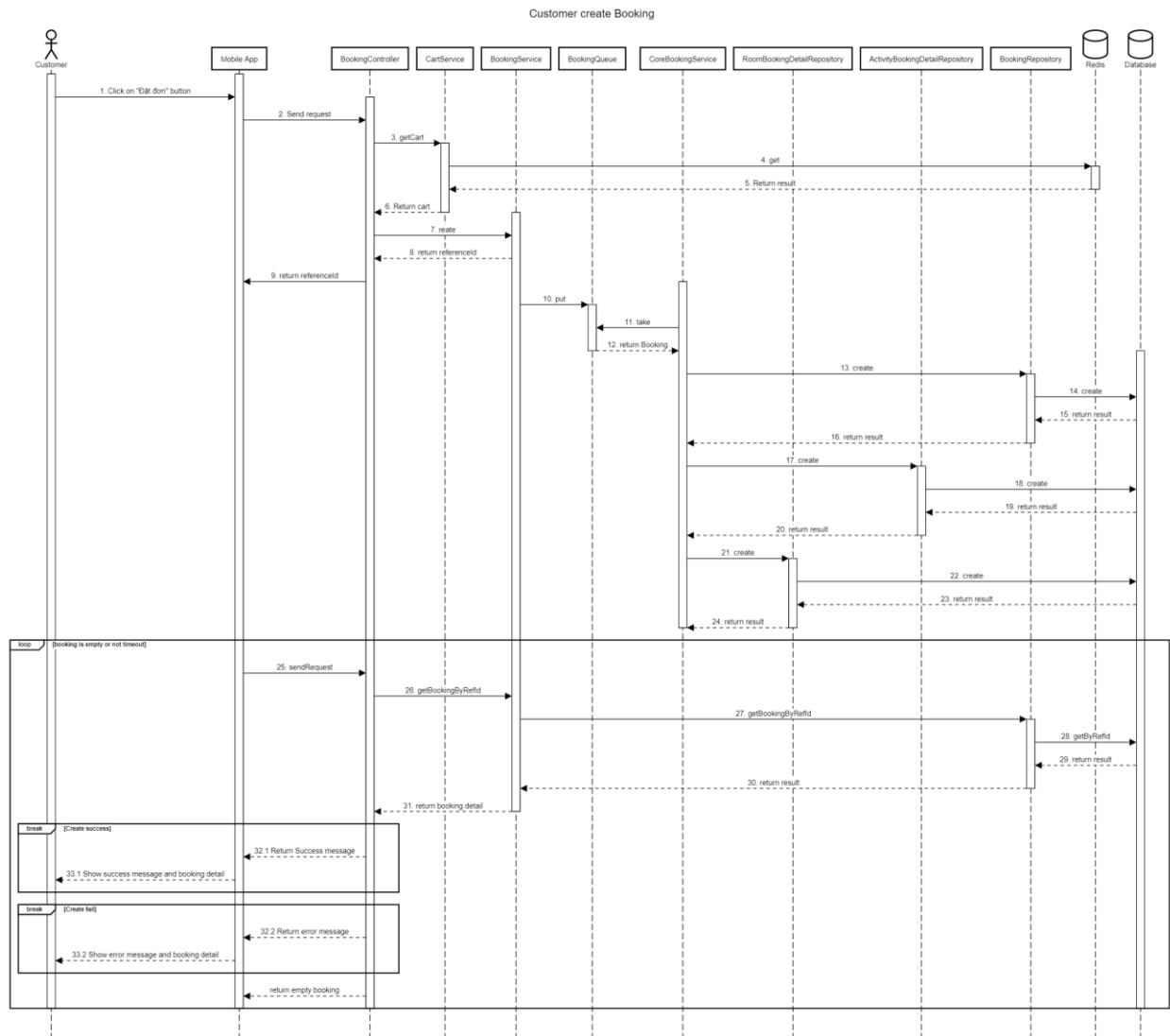


Figure 133 - <Customer> Create Booking Sequence Diagram

3.14.2 <Customer> Payment Booking Sequence Diagram

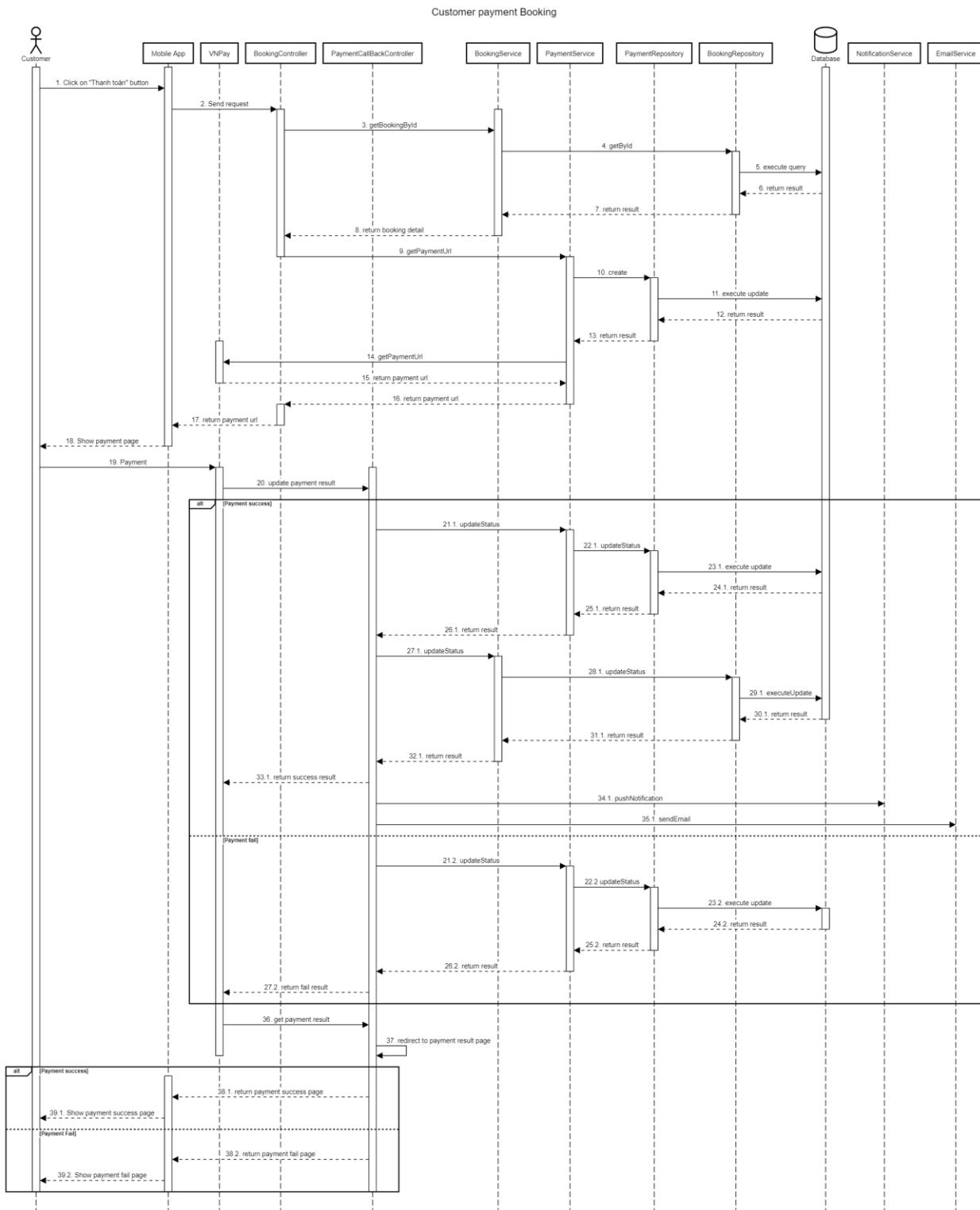


Figure 134 - <Customer> Payment Booking Sequence Diagram

3.15 Management Cart Feature

3.15.1 <Customer> Get Cart Sequence Diagram

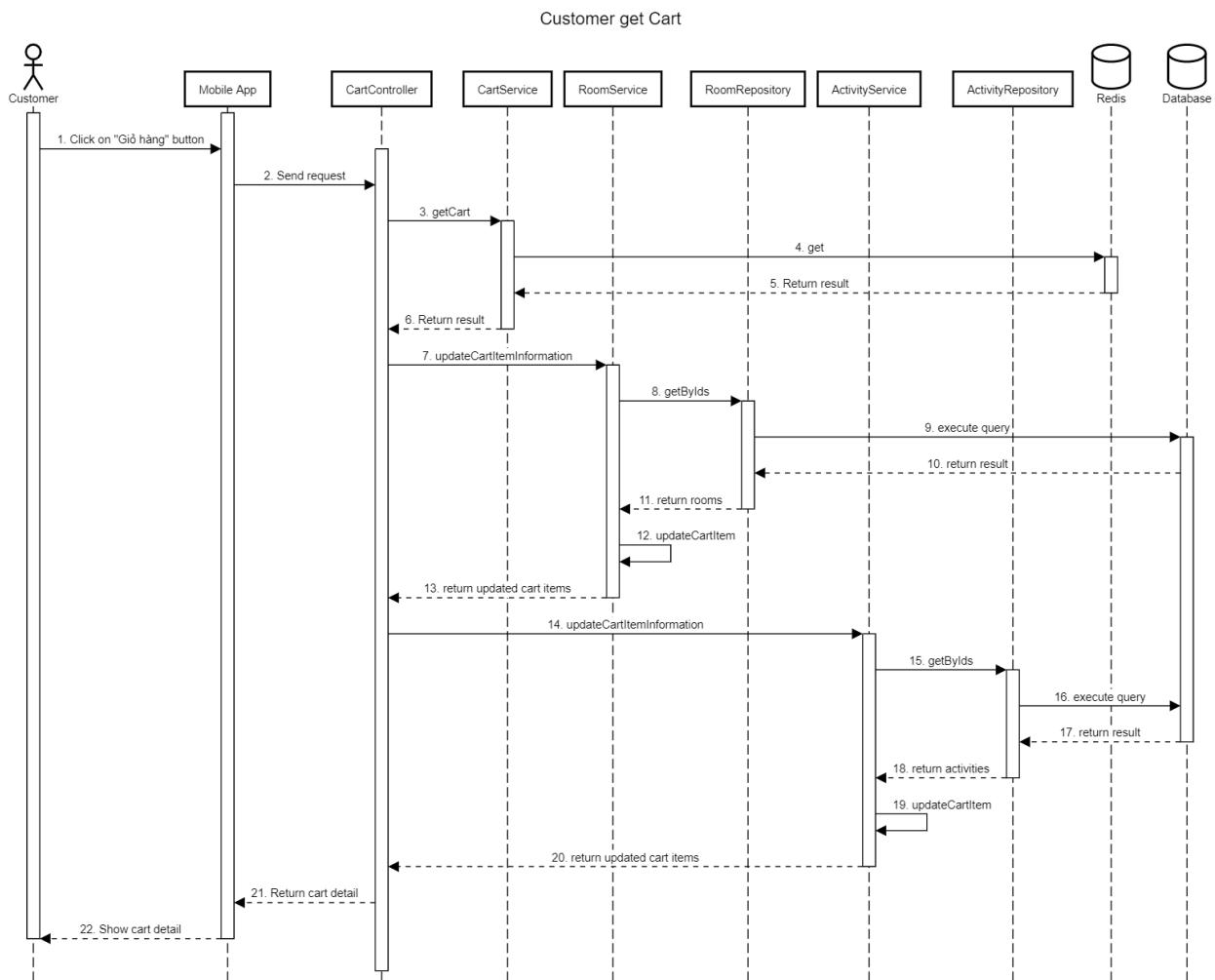


Figure 135 - <Customer> Get Cart Sequence Diagram

3.15.2 <Customer> Update Cart Sequence Diagram

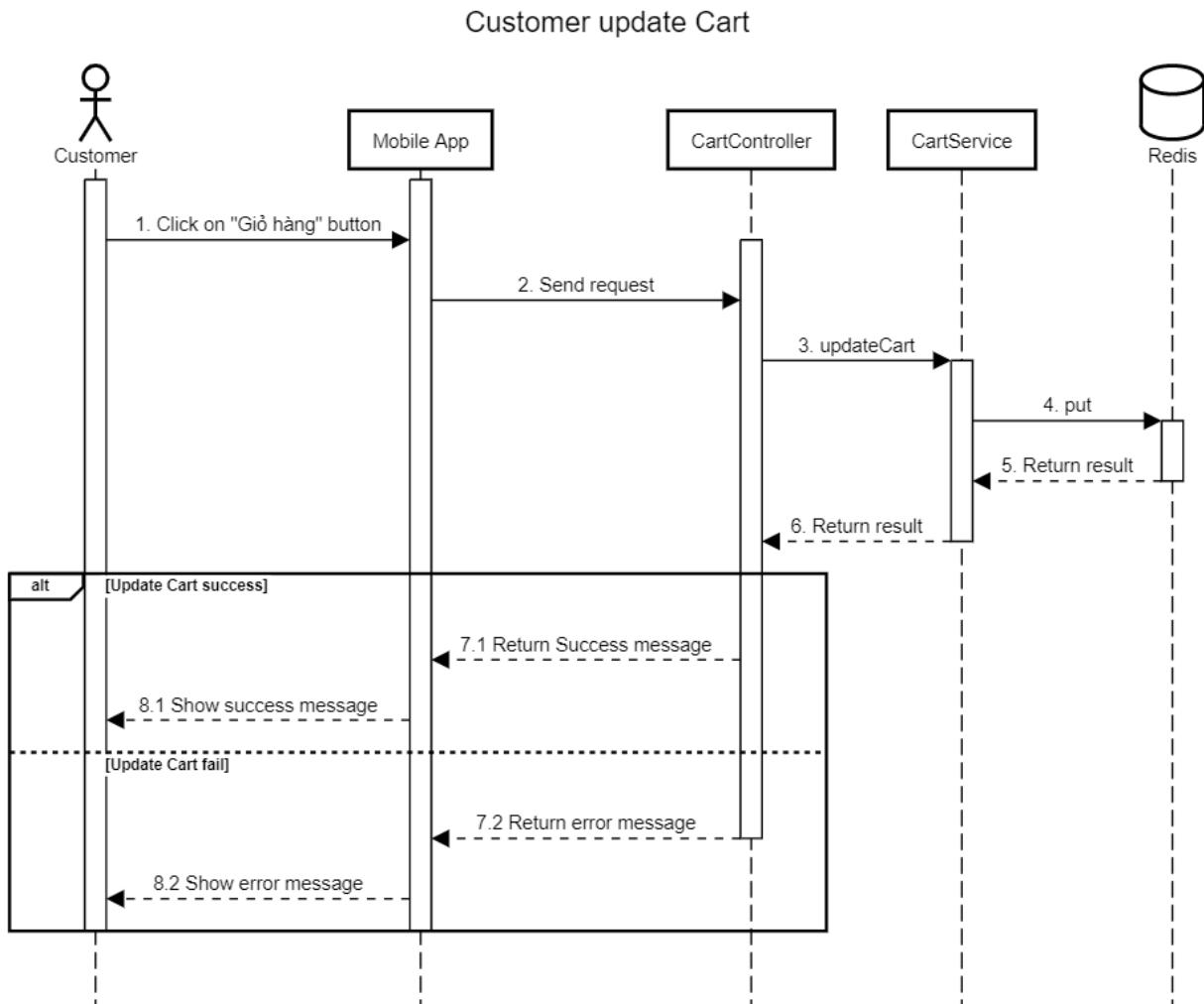


Figure 136 - <Customer> Update Cart Sequence Diagram

3.16 Search Farmstay

3.16.1 <Customer> Search Farmstay Sequence Diagram

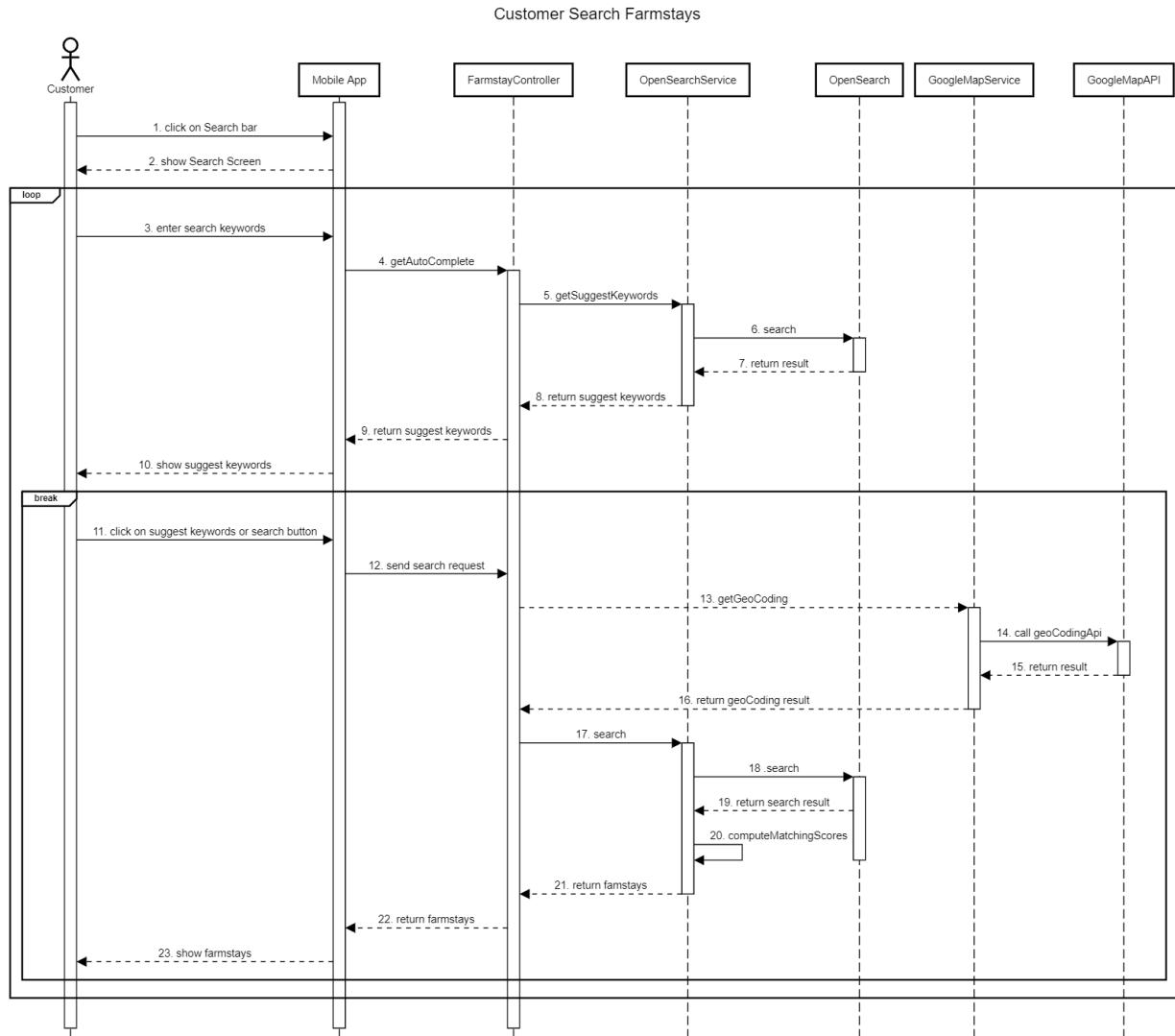


Figure 137 - <Customer> Search Farmstay Sequence Diagram

3.16.2 <Customer> Onboarding Sequence Diagram

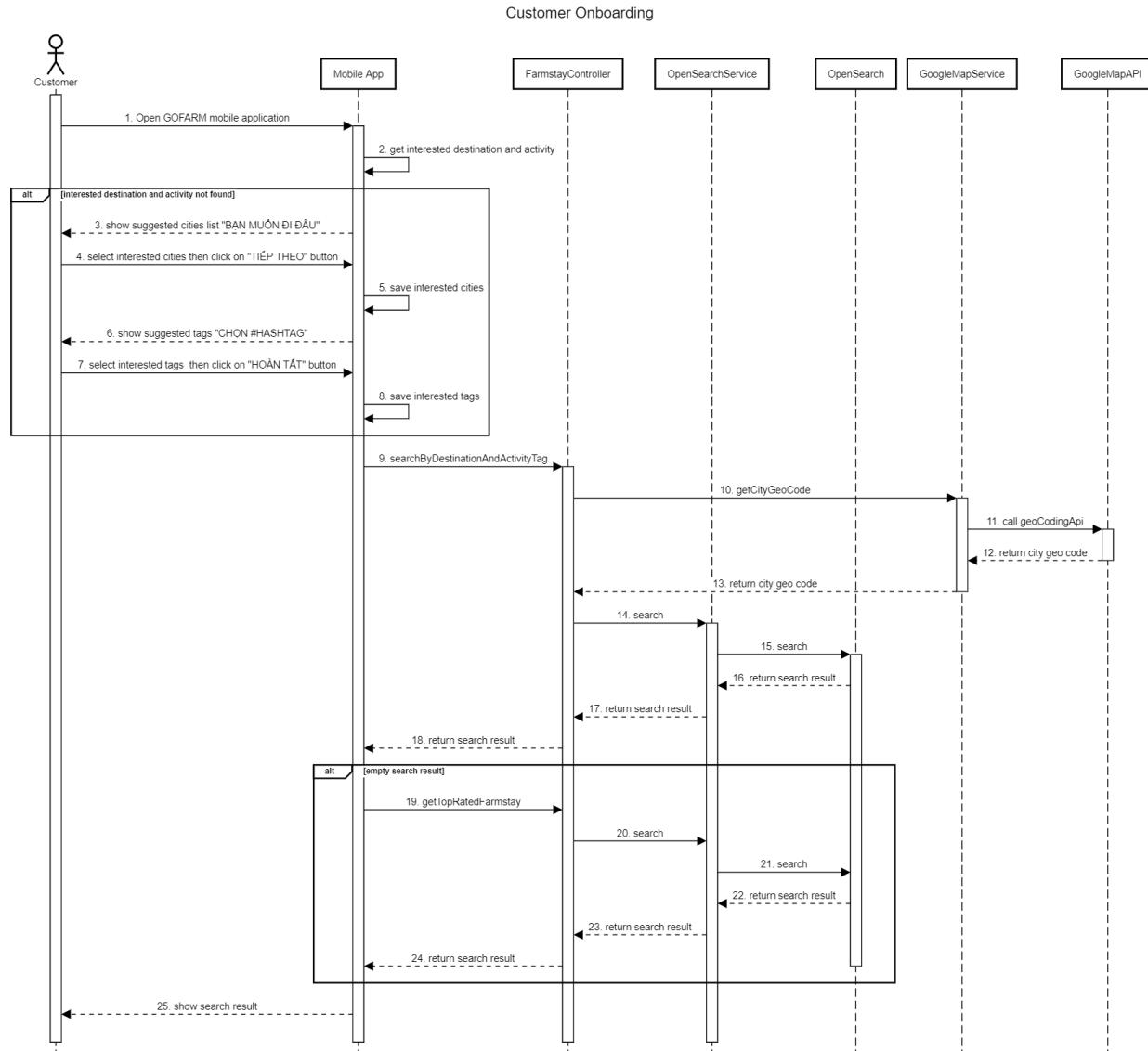


Figure 138 - <Customer> Onboarding Sequence Diagram

V. Software Testing Documentation

1. Scope of Testing

The scope of testing can vary depending on the size and complexity of the project. With GoFarm project, we should ensure that all the features and function of the GoFarm platform are working as expected. This testing should include testing the registration process for hosts and customer, searching and booking farmstay, payment processing etc. On the other hand, we ensure that the platform can handle a large number of users simultaneously without any performance issues.

In GoFarm project, we applied Unit Testing with the backend API. With the Front-End and Mobile we applied System Testing with functional requirements.

2. Test Strategy

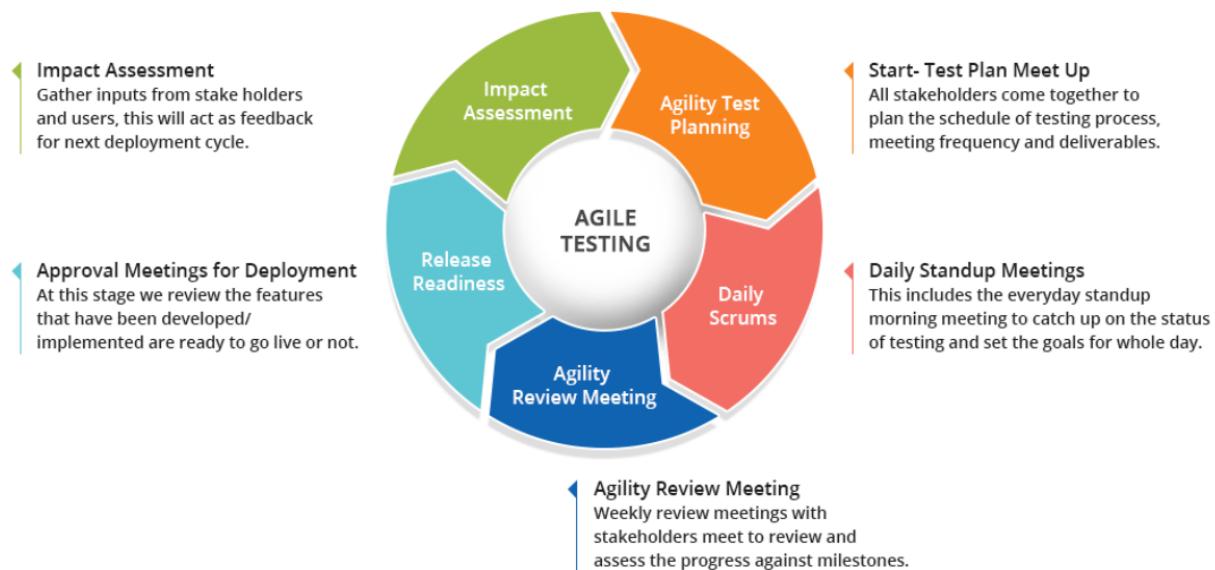


Figure 139 - Agile Testing

We apply Agile Testing because it allows for flexibility and adaptability in the testing process which is particularly useful to the changing requirements with each cycle. Additionally, allows the testing team to spot bugs easily and prevents the development team to repeat a bug type too many times. Moreover, it's suitable in small or medium projects and focuses on delivering value to the customers

2.1 Testing Types

Testing types that will be performed in the project:

- Functional Test: To ensure that the application is working as expected and meets the user's requirements.
- User Interface Test: To ensure that the application is easy to use, intuitive, and provides a positive user experience.

2.2 Test Levels

Type of Tests	Test Level			
	Unit	Integration	System	Acceptance
Functional Test	X	X		
User Interface Test			X	

Table 46 - Test Levels

2.3 Supporting Tools

Purpose	Tool	Vendor/In-house	Version

View logs of web application	Chrome DevTools	Chrome	112.0.5615.121
Backend IDE	IntelliJ	JetBrains	2021.1
Web application IDE	Visual Studio Code	Microsoft	1.60.2
Mobile application IDE	Android Studio	Google	2021.1.1
Communication	Message	Facebook	

Table 47 - Supporting Tools

3 Test Plan

3.1 Human Resources

Worker/Doer	Role	Specific Responsibilities/Comments
NhungLDM	Test Leader	Write test cases, run tests, write reports and verifying test results
AnhNDH	Tester	Execute test and report
TrongLD	Tester	Execute test and report

Table 48 - Human Resources

3.2 Test Environment

Purpose	Tool	Provider	Version
Integration test web app with UI/UX	Chrome	Google	112.0.5615.121
Run server side	Postman	Postdot Technologies	3.52
Integration test mobile app with UI/UX	Galaxy A03	Samsung	Android 13

Table 49 - Test Environment

3.3 Test Milestones

Milestone Task	Start Date	End Date
Setup environment	01/03/2023	02/03/2023
Unit test for backend functions	02/03/2023	01/04/2023
System test	02/03/2023	01/04/2023
Write final report test	01/04/2023	03/04/2023

Table 50 - Test Milestones

4 Test Cases

The details of the test cases are described in the following file:

- Unit Test Cases: [Report 5 Unit Test.xlsx](#)
- Other Test Cases: [Report 5 Test Report.xlsx](#)

5 Test Reports

TEST STATISTICS

Project Name	<i>Build an application to help tourists find and camp in farmstays</i>	Creator	<i>NhungLDM</i>
Project Code	<i>SP23SE30</i>	Reviewer/Approver	<i>AnhNDH</i>
Document Code	<i>SP23SE30_Test Report_v1.0</i>	Issue Date	<i>18/03/2023</i>
Notes			

No	Module code	Passed	Failed	Pending	N/A	Number of test cases
1	Authentication	6	0	0	0	6
2	WebHost_FarmstayManagement	13	1	0	0	14
3	WebHost_ServicesManagement	12	0	0	0	12
4	WebHost_PoliciesManagement	9	0	0	0	9
5	WebHost_FAQsManagement	9	0	0	0	9
6	WebHost_RoomManagement	18	0	0	0	18
7	WebHost_BookingRequestManagement	11	0	0	0	11
9	WebHost_ActivitiesManagement	17	0	0	0	17
10	WebHost_ProfileManagement	6	0	0	0	6
11	WebAdmin_HostManagement	11	0	0	0	11
12	WebAdmin_CustomerManagement	10	0	0	0	10
13	WebAdmin_FarmstayManagement	23	0	0	0	23
14	WebAdmin_OrderManagement	7	0	0	0	7
15	WebAdmin_DisbursementManagement	8	0	0	0	8
16	WebAdmin_FeedbackManagement	10	0	0	0	10
17	WebAdmin_ServiceCategoryManagement	10	0	0	0	10
18	WebAdmin_RoomCategoryManagement	10	0	0	0	10
19	WebAdmin_TagCategoryManagement	10	0	0	0	10
20	Mobile.Authentication	7	0	0	0	7
21	Mobile.HomeScreen	7	0	0	0	7
22	Mobile.FarmstayManagement	7	0	0	0	7
23	Mobile.BookingManagement	8	0	0	0	8
Sub total		229	1	0	0	230

Test coverage **100.00 %**
Test successful coverage **99.57 %**

Figure 140 - <Test Report> Test Statistic

UNIT TEST REPORT

Project Name	<i>Build an application to help tourists find and camp in farmstays</i>	Creator	NhungLDM
Project Code	<i>SP23SE30</i>	Reviewer/Approvers	AnhNDH
Document Code	<i>SP23SE30_Test Report_vx.x</i>	Issue Date	<i>18/03/2023</i>
Notes			

No	Function code	Passed	Failed	Untested	N	A	B	Cases
1	CreateFarmstay	1	0	0	1	0	0	1
2	UpdateFarmstay	1	0	0	1	0	0	1
3	CreatePolicies	1	0	0	1	0	0	1
4	UpdatePolicy	1	0	0	1	0	0	1
5	CreateActivites	1	0	0	1	0	0	1
6	UpdateActivity	1	0	0	1	0	0	1
7	CreateRooms	1	0	0	1	0	0	1
46	SearchRoomCategory	3	0	0	1	2	0	3
47	GetRoomCategoryById	3	0	0	1	2	0	3
48	CreateFaq	1	0	0	1	0	0	1
49	UpdateFaq	1	0	0	1	0	0	1
50	GetFAQById	3	0	0	1	2	0	3
51	GetActivityById	3	0	0	1	2	0	3
52	GetRoomById	3	0	0	1	2	0	3
53	GetPolicyById	3	0	0	1	2	0	3
54	SearchFarmstay	3	0	0	1	2	0	3
55	GetRoomSchedule	4	0	0	2	2	0	4
56	GetActivitySchedule	4	0	0	2	2	0	4
57	ReviewDisbursement	3	0	0	1	2	0	3
58	GetDisbursementById	2	0	0	1	1	0	2
59	HostReviewBooking	2	0	0	1	1	0	2
Sub total		112	0	0	63	49	0	112

Test coverage
Test successful coverage
Normal case
Abnormal case
Boundary case

100.00 %
100.00 %
56.25 %
43.75 %
0.00 %



Figure 141 - <Test Report> Unit Test

VI. Release Package & User Guides

1. Deliverable Package

No.	Deliverable Item	Sub-Items	Type	Version
Code package				
1	API Server	gofarm-be	New	1.0
2	Web Application	gofarm-web	New	1.0
3	Mobile Application	gofarm-mobile customer-gofarm.apk	New	1.0
Database				
5	Database Script	gofarm.sql	New	1.0
Documents				
6	Final Report Document	GoFarm_Final-Report.pdf	New	1.0

Table 51 - Deliverable Package

2. Installation Guides

2.1 System Requirements

Component	Minimum	Recommended
CPU	At least 2 (GHz) x64-bit	Core i5 or i7
Memory	2GB RAM	4GB RAM
Storage	2GB	4GB up
Internet Connection	Cable, Wi-Fi (4 Mbps)	Cable, Wi-Fi (8 Mbps)

Table 52 – System Requirements

2.2 Installation Instruction

2.2.1 Set up Environment for Backend

- Install JDK 17 <https://www.oracle.com/java/technologies/javase/jdk17-archive-downloads.html>
- Install Apache Maven 3.8.5 <https://maven.apache.org/download.cgi>
- Install Opensearch 2.6.0 <https://opensearch.org/versions/opensearch-2-6-0.html>
- Install MySQL <https://dev.mysql.com/downloads/installer/>
- Install Redis <https://redis.io/docs/getting-started/installation/>
- Install IntelliJ IDEA <https://www.jetbrains.com/help/idea/installation-guide.html>

2.2.2 Set up Environment for Web Application

- Install Node.js by downloading the appropriate installer from the official website: [Node.js Download](#)
- Install Visual Studio Code as your code editor by downloading it from the following link: [Visual Studio Code Download](#)
- Create a firebase project by visiting the Firebase Console at [Firebase Console](#) and click on the "Add project" button. Follow the on-screen prompts to create a new project.
- Configure Firebase in web-app:

- `npm install firebase`
- Create config file: `firebaseConfig.ts`
- Config to use **Firebase Authentication** and **Firebase messaging**.
- Open the terminal or command prompt and run the following command to install all packages:
 - `npm install`
- Build the production version for app:
 - `npm run build`
- Deploy host web-app to firebase:
 - `firebase deploy --only hosting:host`
- Deploy host admin-app to firebase:
 - `firebase deploy --only hosting:admin`
- Start web-app locally:
 - `npm start`

2.2.3 Set up Environment for Mobile Application

- Download and install [Download Android Studio & App Tools - Android Developers](#)
- Download the following installation bundle to get the latest stable release of the Flutter SDK from [Windows install | Flutter](#)
- Install Flutter by following the installation instructions on the Flutter website: [Flutter Installation Instructions](#)
- Configure the Android Studio by installing the Flutter and Dart plugins. Follow the instructions here: [Flutter Plugin Installation](#)
- Create a new Flutter project in Android Studio by following this guide: [Create a new Flutter Project](#)
- Run the mobile application by following the steps below:
 - Open the created Flutter project in Android Studio.
 - Select the desired emulator or device from the dropdown menu in the toolbar.
 - Click the green "Run" (▶) button in the toolbar to build and run the application on the selected device.

3 User Manual

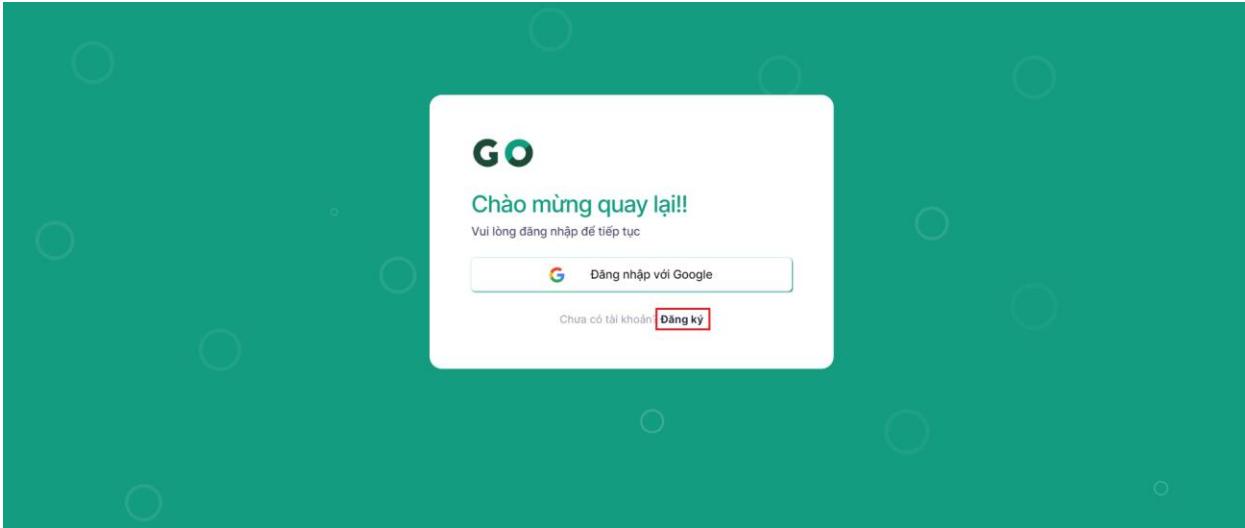
3.1 Overview

This application provides a platform for customers to book farmstays. The web application for admin allows for managing all aspects of the system. We provide manage farmstay feature for hosts can easily manage their farmstay listings. Additionally, customers can search for and book farmstays, manage their bookings, and provide feedback.

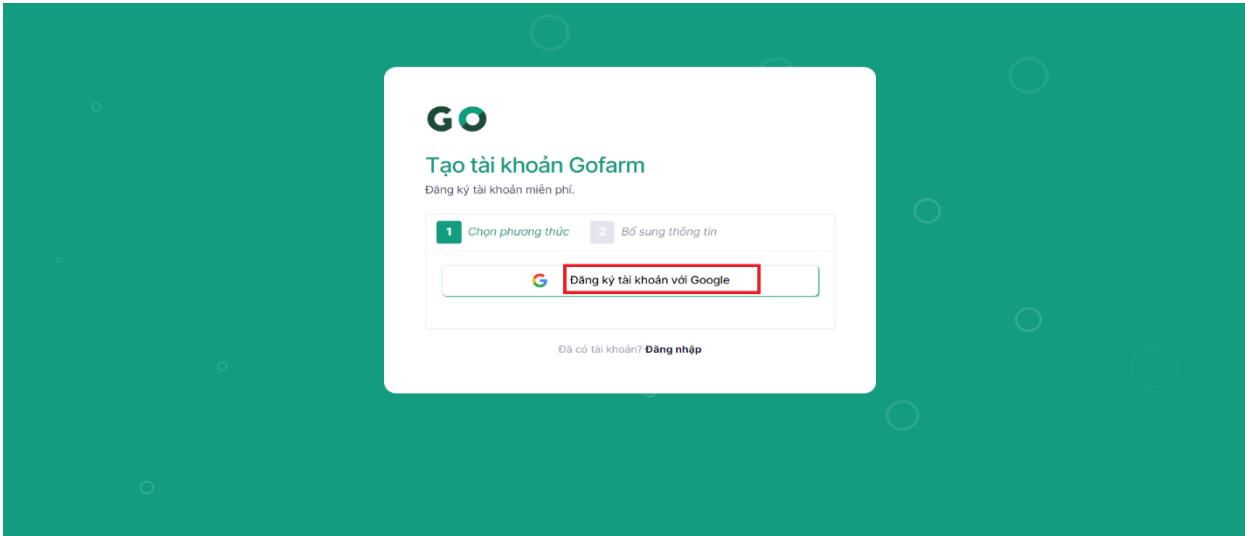
3.2 Web Application for Host

3.2.1 <Host> Sign up

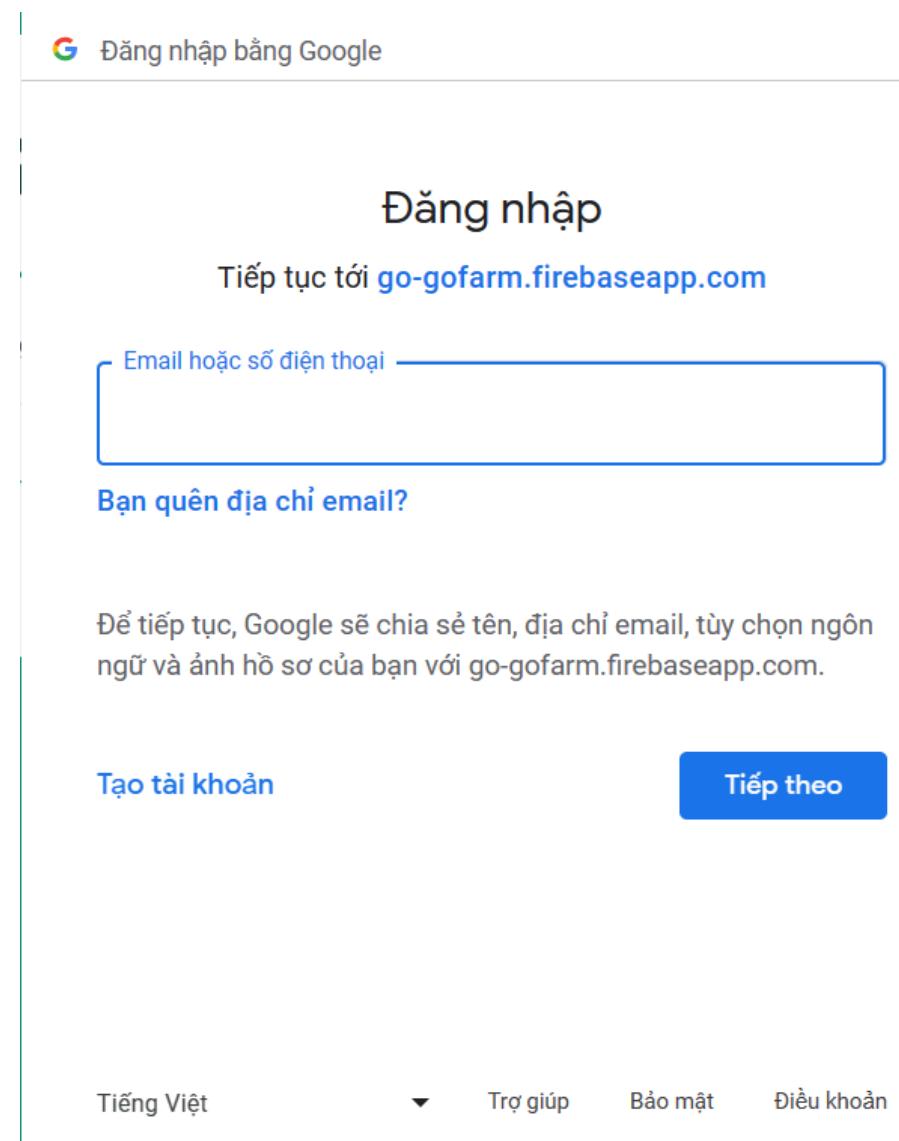
Step 1: Host click on “Đăng ký” text



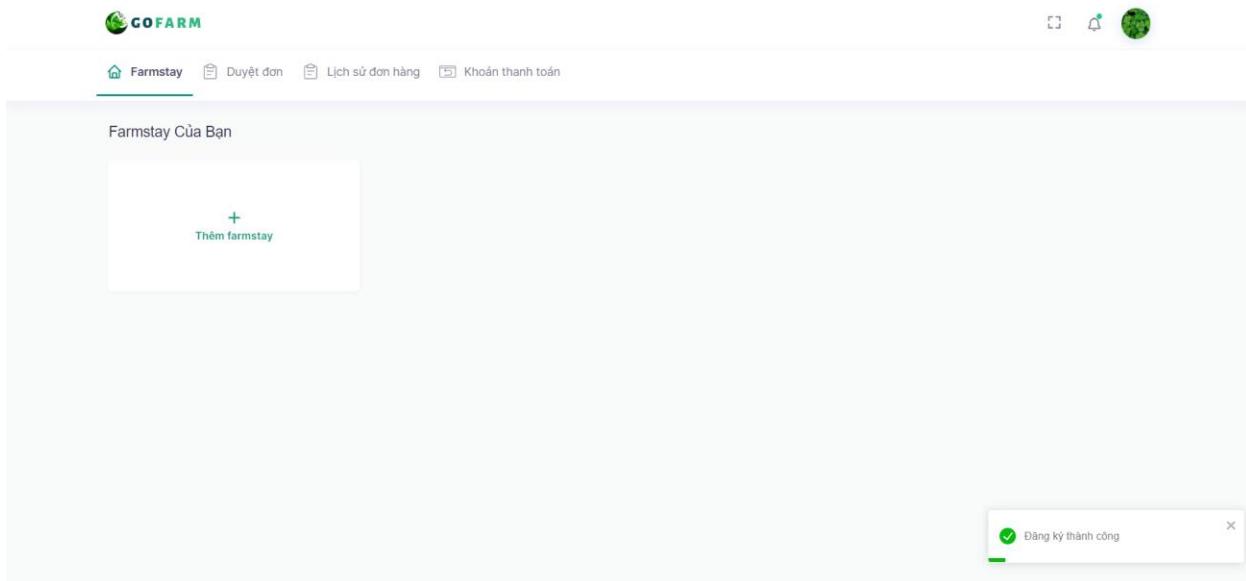
Step 2: Host click on “Đăng ký với Google” button



Step 3: The host entered their Google account information to sign up

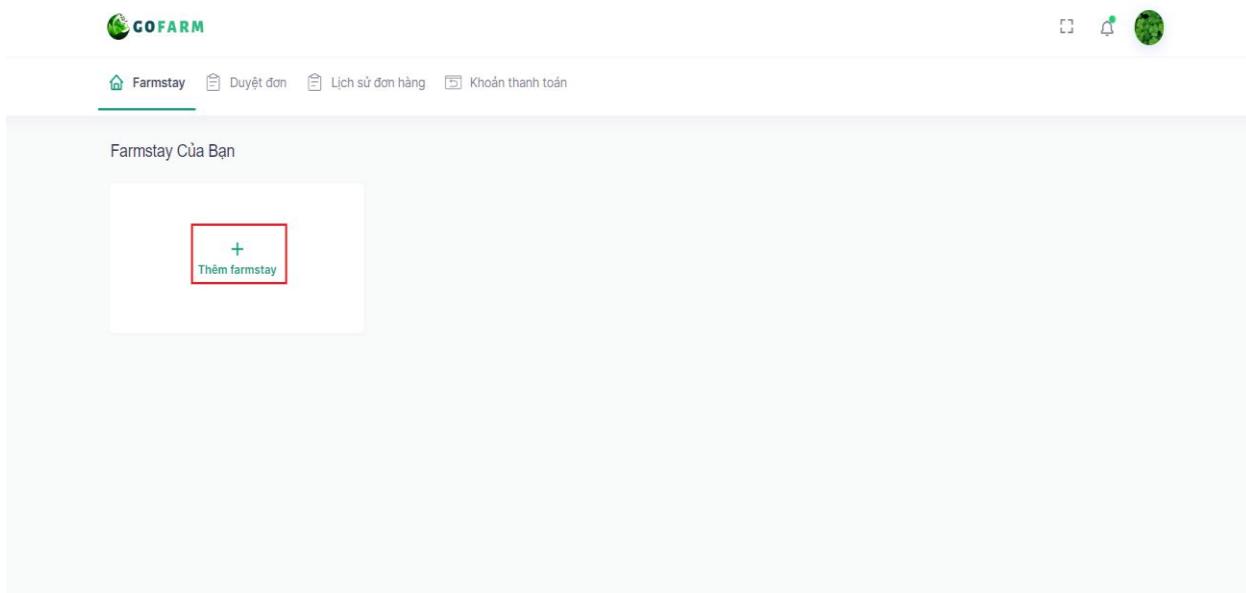


Step 4: After entering the Google account information, host will be redirected to the management page



3.2.2 <Host> Create farmstay.

Step 1: Click on “Thêm farmstay” button



Step 2: Enter the information of the farmstay

| THÊM FARMSTAY

X

Bước 1/5

Cung cấp tên và ảnh đại diện farmstay

Nhập tên/thương hiệu farmstay

Ảnh đại diện

[TIẾP TỤC →](#)

| THÊM FARMSTAY

X

Bước 2/5

Địa chỉ

* Quốc gia	Việt Nam
* Tỉnh/Thành phố	Tỉnh Bến Tre
* Quận/Huyện	Thành phố Bến Tre
* Phường/Xã	Xã Phú Nhuận
Chi tiết	Số nhà 479C, ấp 3

(*) Thông tin bắt buộc

[← QUAY LẠI](#)[TIẾP TỤC →](#)

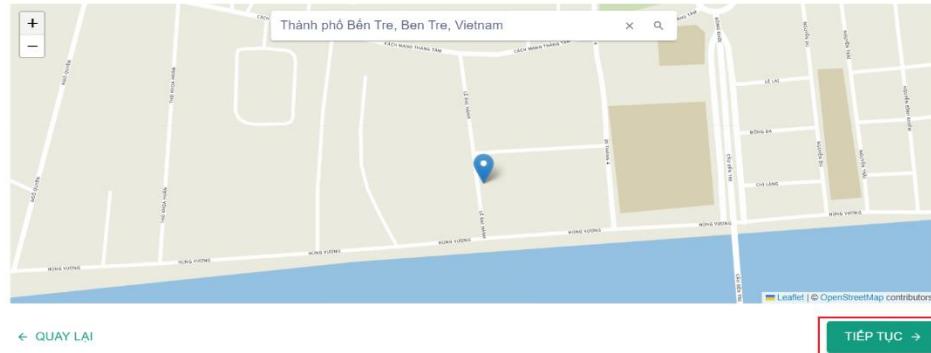
THÊM FARMSTAY

X

Bước 3/5

Chọn vị trí farmstay trên bản đồ

Kinh độ 106.3747241 Vĩ độ 10.2350016



← QUAY LẠI

TIẾP TỤC →

THÊM FARMSTAY

X

Bước 4/5

Cung cấp thông tin liên hệ

Số điện thoại

0915284315

Email

bentrefarmstay@gmail.com

+ Thêm phương thức khác

← QUAY LẠI

TIẾP TỤC →

Step 3: Confirm information of the farmstay and click on “Hoàn Thành” button

| THÊM FARMSTAY

X

Bước 5/5

Xác nhận thông tin

Farmstay



Địa chỉ

Quốc gia	Viet Nam
Tỉnh/Thành phố	Tỉnh Bến Tre
Quận/Huyện	Thành phố Bến Tre
Phường/Xã	Xã Phú Nhuận
Chi tiết	Số nhà 479C, ấp 3

Vị trí

Kinh độ: 106.342545 | Vĩ độ: 10.142435

Phương thức liên lạc

Số điện thoại: 091584312

← QUAY LẠI

HOÀN THÀNH

Step 4: The farmstay created successfully

| THÊM FARMSTAY

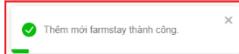
X

Một số lưu ý

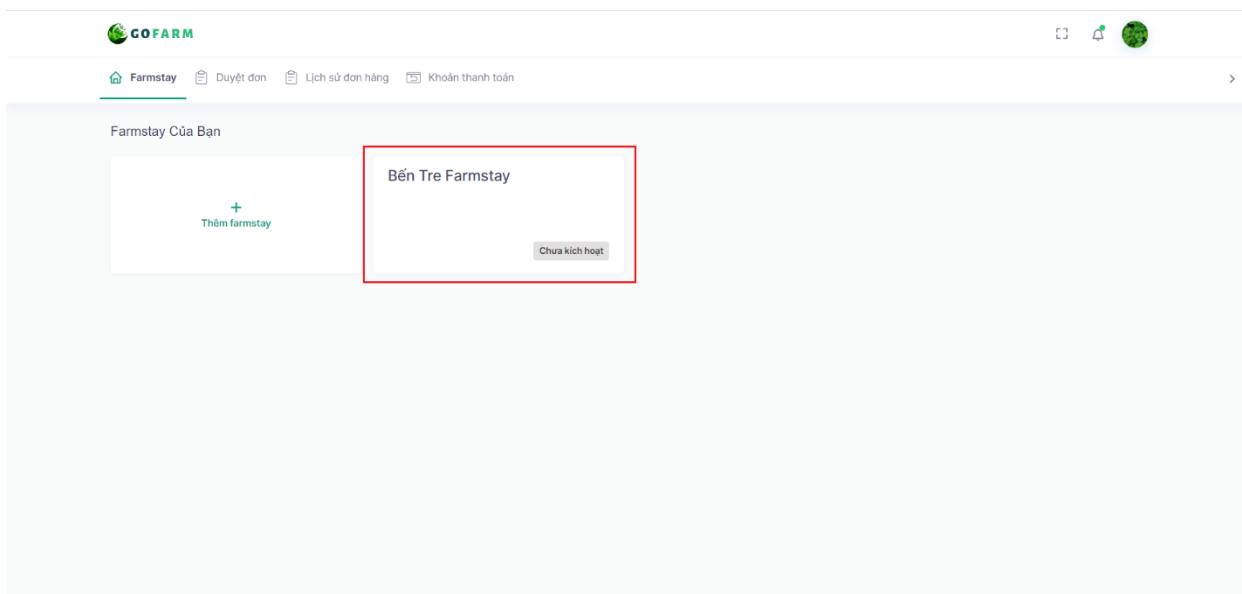
- ✓ Hãy hoàn thiện thông tin liên lạc (sdt, email, v.v) để du khách có thể liên hệ với bạn. Hãy đảm bảo rằng số điện thoại và địa chỉ email của bạn được cập nhật và chính xác.
- ✓ Tải lên hình ảnh chất lượng cao của farmstay. Hình ảnh tốt sẽ giúp du khách có được cái nhìn tổng quan và thu hút về nơi lưu trú và các hoạt động của bạn.
- ✓ Mô tả rõ ràng về farmstay của bạn, bao gồm các tiện nghi và dịch vụ cung cấp, quy định, v.v. Hãy đảm bảo rằng các thông tin này được cập nhật và chính xác để giúp du khách có được trải nghiệm tuyệt vời nhất.
- ✓ Hãy cẩn nhắc và lựa chọn giá phòng hợp lý để thu hút du khách đặt phòng và đảm bảo lợi nhuận cho bạn

Lưu ý: cần bổ sung đầy đủ thông tin trước khi được đăng lên nền tảng GOFARM

ĐÓNG

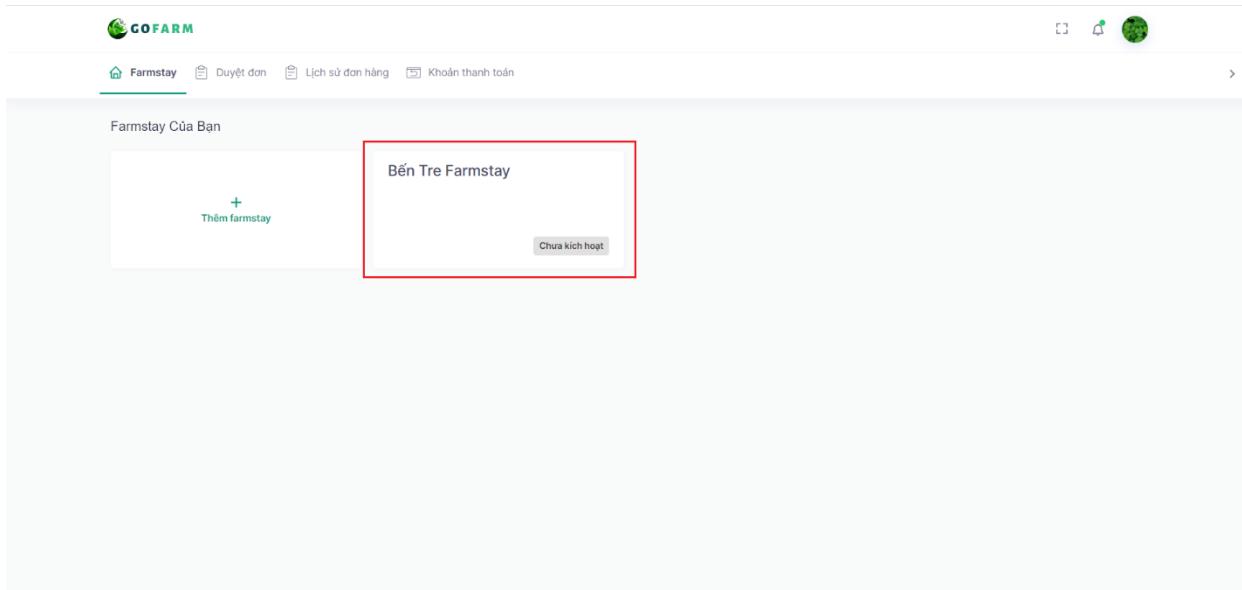


Step 5: After clicking on the “Đóng” button, the application will redirect to the 'Farmstay' tab and display the newly created farmstay



3.2.3 <Host> Create activities.

Step 1: Host clicks on a farmstay to create activities



Step 2: Host click on “Hoạt động” tab

Bến Tre Farmstay Chưa Kích Hoạt

Chủ sở hữu: Nhung Le

Danh giá: 0/5

Gửi yêu cầu phê duyệt

Địa chỉ: 123C,Xã Hồng An,Huyện Bảo Lạc,Tỉnh Cao Bằng,Vietnam

Liên hệ: 0912654132

Thông tin Lịch trình hoạt động **Hoạt động** Phòng Dịch vụ Quy định Hỏi đáp Đánh giá & Phản hồi Lịch sử đơn hàng

Thông tin cơ bản

Tên: Bến Tre Farmstay Địa chỉ: 123C,Xã Hồng An,Huyện Bảo Lạc,Tỉnh Cao Bằng,Vietnam

Mô tả: Chưa có mô tả

Ngày tạo: 16 tháng 4 2023 Lần cập nhật cuối: 16 tháng 4 2023

Step 3: Host clicks on “Thêm hoạt động mới” button

Bến Tre Farmstay Chưa Kích Hoạt

Chủ sở hữu: Nhung Le

Địa chỉ: 123C,Xã Hồng An,Huyện Bảo Lạc,Tỉnh Cao Bằng,Vietnam

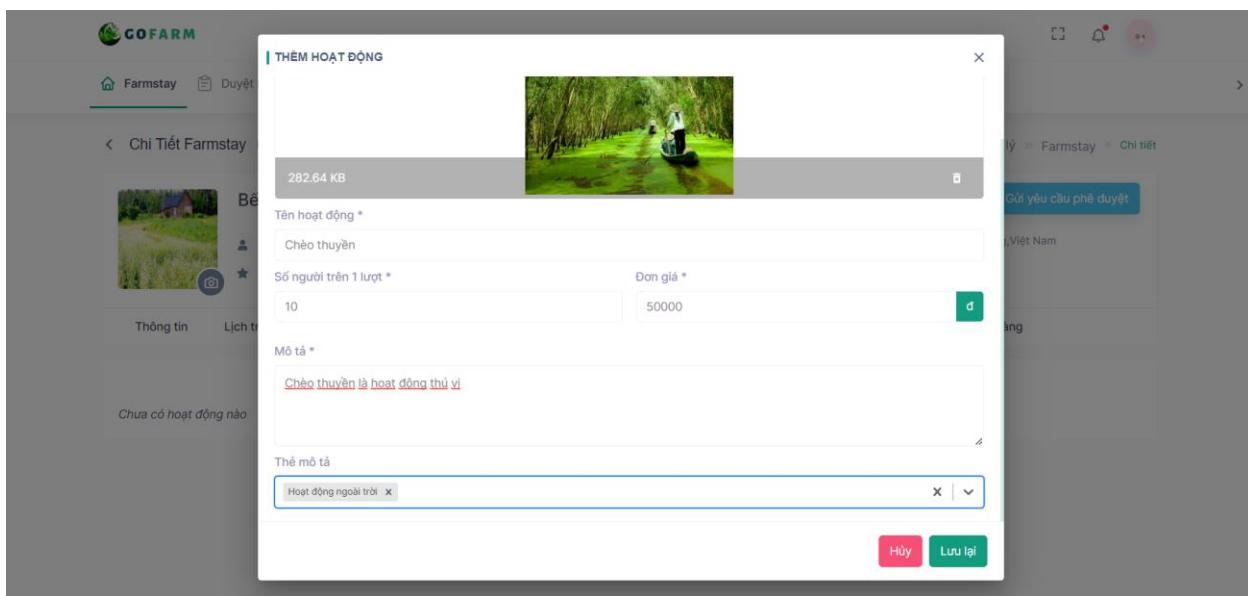
Liên hệ: 0912654132

Thông tin Lịch trình hoạt động **Hoạt động** Phòng Dịch vụ Quy định Hỏi đáp Đánh giá & Phản hồi Lịch sử đơn hàng

+ THÊM HOẠT ĐỘNG MỚI

Chưa có hoạt động nào

Step 4: “Thêm hoạt động” popup is displayed. Enter all information of the activity and click on “Lưu lại” button



Step 5: The activity created successfully

Step 6: Beside that, host can view activity detail by clicking on “Xem chi tiết” button

Chèo thuyền Đang triển khai

- Sức chứa: 10
- Giá vé: 50.000 đ

Thông tin cơ bản

Tên :	Mã :
Chèo thuyền	R-000092
Số người mỗi lượt :	Đơn giá :
10	50.000 đ
Mô tả : Chèo thuyền là hoạt động thú vị	
Hoạt động ngoài trời	

3.2.4 <Host> Update activity.

Step 1: Click on “Cập nhật” icon in the activity detail page.

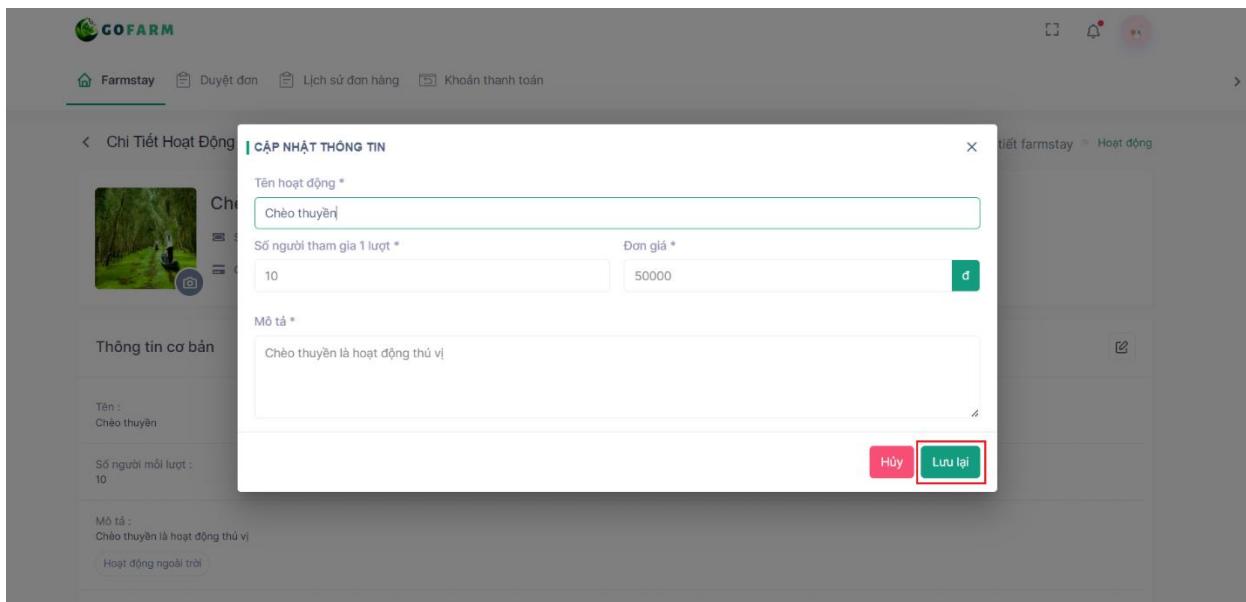
Chèo thuyền Đang triển khai

- Sức chứa: 10
- Giá vé: 50.000 đ

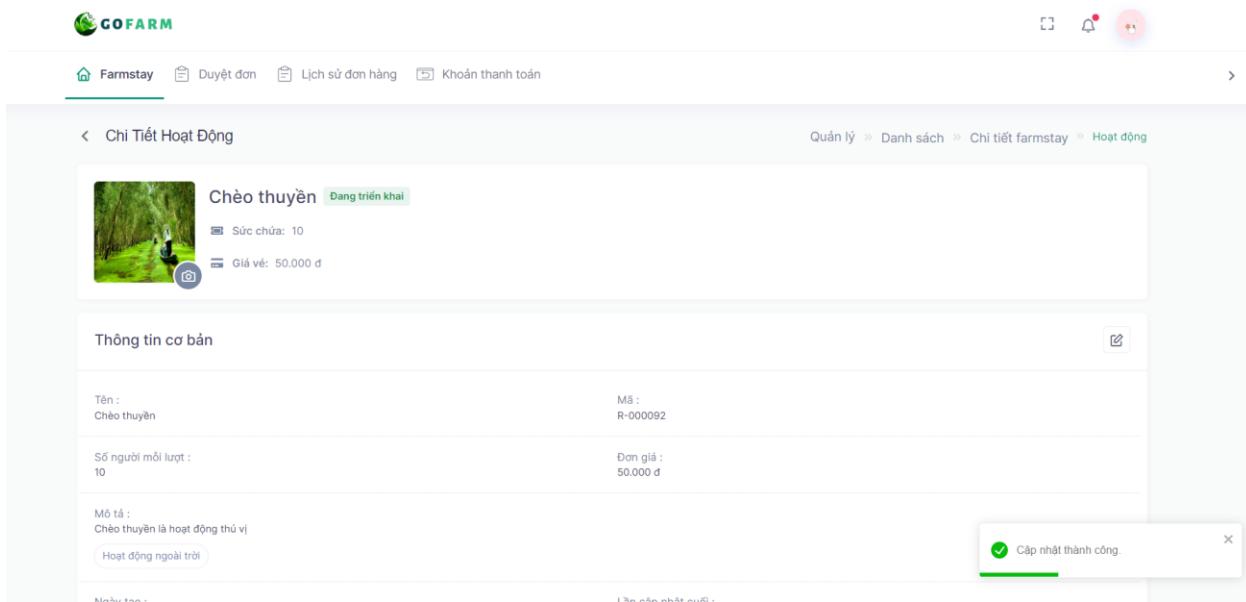
Thông tin cơ bản

Tên :	Mã :
Chèo thuyền	R-000092
Số người mỗi lượt :	Đơn giá :
10	50.000 đ
Mô tả : Chèo thuyền là hoạt động thú vị	
Hoạt động ngoài trời	

Step 2: Fill in the information fields to update the activity and click on “Lưu lại” button



Step 3: The activity updated successfully



3.2.5 <Host> Ban activity.

Step 1: Click on “Khóa” button in activity

Bến Tre Farmstay Đang Phê Duyệt

Chủ sở hữu: Nhung Le

Đánh giá: 5/5 (1)

Địa chỉ: 123C, Xã Hồng An, Huyện Bảo Lạc, Tỉnh Cao Bằng, Việt Nam

Liên hệ: 0912654132

Thông tin | Lịch trình hoạt động | **Hoạt động** | Phòng | Dịch vụ | Quy định | Hỏi đáp | Dánh giá & Phản hồi | Lịch sử đơn hàng

+ THÊM HOẠT ĐỘNG MỚI

Chèo thuyền Đang triển khai

Chèo thuyền là hoạt động thú vị

Xem chi tiết

50.000 đ

Khóa Xóa

Step 2: Click on “Xác nhận” button in “Khóa hoạt động” popup

Bến Tre Farmstay Đang Phê Duyệt

Chủ sở hữu: Nhung Le

Đánh giá: 5/5 (1)

Địa chỉ: 123C, Xã Hồng An, Huyện Bảo Lạc, Tỉnh Cao Bằng, Việt Nam

Liên hệ: 0912654132

Thông tin | Lịch trình hoạt động | **Hoạt động** | Phòng | Dịch vụ | Quy định | Hỏi đáp | Dánh giá & Phản hồi | Lịch sử đơn hàng

+ THÊM HOẠT ĐỘNG MỚI

Chèo thuyền Đã khóa

Chèo thuyền là hoạt động thú vị

Xem chi tiết

50.000 đ

Step 3: The status changes to “Đã khóa” status in activity

Bến Tre Farmstay Đang Phê Duyệt

Chủ sở hữu: Nhung Lê

Địa chỉ: 123C,Xã Hồng An,Huyện Bảo Lạc,Tỉnh Cao Bằng,Việt Nam

Liên hệ: 0912654132

Thông tin | Lịch trình hoạt động Hoạt động Phòng Dịch vụ Quy định Hỏi đáp Đánh giá & Phản hồi Lịch sử đơn hàng

+ THÊM HOẠT ĐỘNG MỚI

Chèo thuyền Đã khóa

Chèo thuyền là hoạt động thú vị

Xem chi tiết

50.000 đ

Mở khóa Xóa

Cập nhật thành công

3.2.6 <Host> View schedule of activity.

Step 1: Click on “Lịch trình hoạt động” in farmstay detail page

Bến Tre Farmstay Đang Hoạt Động

Chủ sở hữu: Nhung Lê

Địa chỉ: 123C,Xã Hồng An,Huyện Bảo Lạc,Tỉnh Cao Bằng,Việt Nam

Liên hệ: 0912654132

Thông tin Lịch trình hoạt động Hoạt động Phòng Dịch vụ Quy định Hỏi đáp Đánh giá & Phản hồi Lịch sử đơn hàng

Thông tin cơ bản

Tên : Bến Tre Farmstay	Địa chỉ : 123C,Xã Hồng An,Huyện Bảo Lạc,Tỉnh Cao Bằng,Việt Nam
Mô tả : Chưa có mô tả	
Ngày tạo : 16 tháng 4 2023	Lần cập nhật cuối : 16 tháng 4 2023

Step 2: The system switches to schedule activity page

Bến Tre Farmstay Đang Hoạt Động

Chủ sở hữu: Nhung Lê

Địa chỉ: 123C, Xã Hồng An, Huyện Bảo Lạc, Tỉnh Cao Bằng, Việt Nam

Liên hệ: 0912654132

Lịch trình hoạt động

Thứ 2 17/4 Thứ 3 18/4

[Hoạt Động] Chèo Thuyền (Đã [Hoạt Động] Chèo Thuyền (Đã

Thứ 7 22/4 Chủ Nhật 23/4

(Đã [Hoạt Động] Chèo Thuyền (Đã [Hoạt Động] Chèo Thuyền (Đã

Đang mở bán

3.2.7 Manage order history.

Step 1: Click on “Lịch sử đơn hàng” tab to view order history

MÃ ĐƠN	KHÁCH HÀNG	FARMSTAY	TỔNG TIỀN	THỜI GIAN TẠO ĐƠN	TRẠNG THÁI	THAO TÁC
OD-000076	Trần Ngọc Hương	Eco - Dream Farmstay	2.000.000 đ	2023-04-01 8:55 PM (18 giờ trước)	Thất bại	
OD-000070	Trần Ngọc Hương	Minii Farm	7.500.000 đ	2023-03-29 9:05 PM (4 ngày trước)	Khách hàng hủy đơn	

Step 2: Click on “Xem chi tiết” icon in “Thao tác” field to view order detail

The screenshot displays two pages of the GOFARM platform:

- Order History Page:** Shows a list of orders with columns for Order ID, Customer Name, Farmstay, Total Amount, Creation Date, Status, and Action. Two specific orders are highlighted with red boxes:
 - Order OD-000076 from Trần Ngọc Hương at Eco - Dream Farmstay, status "Thất bại" (Failed).
 - Order OD-000070 from Trần Ngọc Hương at Minii Farm, status "Khách hàng hủy đơn" (Customer canceled).
- Detailed Order View:** Shows the order details for OD-000076. It includes sections for Customer Information (Name: Trần Ngọc Hương, Sdt: 0988809001, Email: tranhuongvb123@gmail.com), Farmstay Information (Farmstay: Eco - Dream Farmstay, Check-in: 27/04/2023, Check-out: 04/05/2023), Contact Information (Phone: 0901111111, Facebook: https://www.facebook.com/thuthao1820, Email: mynhungchibi@gmail.com, Zalo: 0901234567), and Order Details (Table showing items: AC-000068, Hoạt động, a1, Ngày: 29/04/2023, Giá: 1,000,000đ; AC-000068, Hoạt động, a1, Ngày: 27/04/2023, Giá: 1,000,000đ; Total: 2,000,000đ, Tax: 0đ).

3.2.8 <Host> Send approval request for Admin

Step 1: Click on "Gửi yêu cầu phê duyệt" button in farmstay detail page

The screenshot shows the GOFARM platform's Farmstay detail page. At the top, there's a navigation bar with links for Farmstay, Duyệt đơn, Lịch sử đơn hàng, and Khoản thanh toán. Below the header, the page title is 'Chi Tiết Farmstay FR-000049' for 'Bến Tre Farmstay'. On the right side of the page, there's a blue button with the text 'Gửi yêu cầu phê duyệt' (Send approval request), which is highlighted with a red box.

Step 2: Click on "Xác nhận" button in [Gửi yêu cầu] popup

This screenshot shows a modal dialog titled 'Gửi yêu cầu' (Send request) with the question 'Xác nhận gửi yêu cầu phê duyệt farmstay Bến Tre Farmstay ?' (Confirm sending the approval request for Bến Tre Farmstay?). There are two buttons at the bottom: a red 'Hủy' (Cancel) button and a green 'Xác nhận' (Confirm) button, which is highlighted with a red box.

Step 3: The farmstay has been successfully sent approve the request.

The screenshot shows the GoFarm platform's Farmstay detail page. At the top, there's a navigation bar with icons for Farmstay, Review, Order History, and Settlement. Below that, a breadcrumb navigation shows 'Quản lý > Farmstay > Chi tiết'. The main content area displays a farmstay named 'Bến Tre Farmstay' with a pending approval status ('Đang Phê Duyệt'). It includes a photo, owner information ('Chủ sở hữu: Nhung Le'), address ('Địa chỉ: 123C, Xã Hồng An, Huyện Bảo Lạc, Tỉnh Cao Bằng, Việt Nam'), contact info ('Liên hệ: 0912654132'), and a rating section. Below this, a navigation bar lists: Thông tin, Lịch trình hoạt động, Hoạt động, Phòng, Dịch vụ, Quy định, Hỏi đáp, Dánh giá & Phản hồi, and Lịch sử đơn hàng. A 'Thông tin cơ bản' section follows, containing fields for Name, Address, Description, Creation Date, and Last Update. A success message 'Gửi yêu cầu thành công' is visible.

Step 4: After admin review this request, the status will change to “Đang hoạt động” status and send email for host

The screenshot shows an email from 'gofarm.service@gmail.com' to the host. The subject is 'GoFarm - Thông báo Phê Duyệt Farmstay'. The email body starts with a greeting to the host, followed by a message of congratulations on the approval of their farmstay. It highlights the farmstay's features and the host's commitment to quality. The message ends with a note of thanks for choosing them and a signature from 'Đội ngũ GoFarm'.

3.2.9 <Host> Approve the customer's request

Step 1: Click on “Duyệt đơn” tab to approve the customer's request

Duyệt Đơn

Đang có 4 đơn cần duyệt

LÀM MỚI

MÃ ĐƠN	KHÁCH HÀNG	FARMSTAY	TỔNG TIỀN	THỜI HẠN DUYỆT	THAO TÁC
OD-000121	Danh Trọng Lê (Fieldsmedal)	Chapa Farmstay	2.000.000 đ	0 ngày 3:23:48	
OD-000120	Danh Trọng Lê (Fieldsmedal)	Chapa Farmstay	240.000 đ	0 ngày 3:18:3	
OD-000115	Danh Trọng Lê (Fieldsmedal)	Hoi Lake Farmstay	1.500.000 đ	0 ngày 2:54:23	
OD-000112	Danh Trọng Lê (Fieldsmedal)	Chapa Farmstay	400.000 đ	0 ngày 2:7:45	

Số hàng mỗi trang 10 1-4 of 4

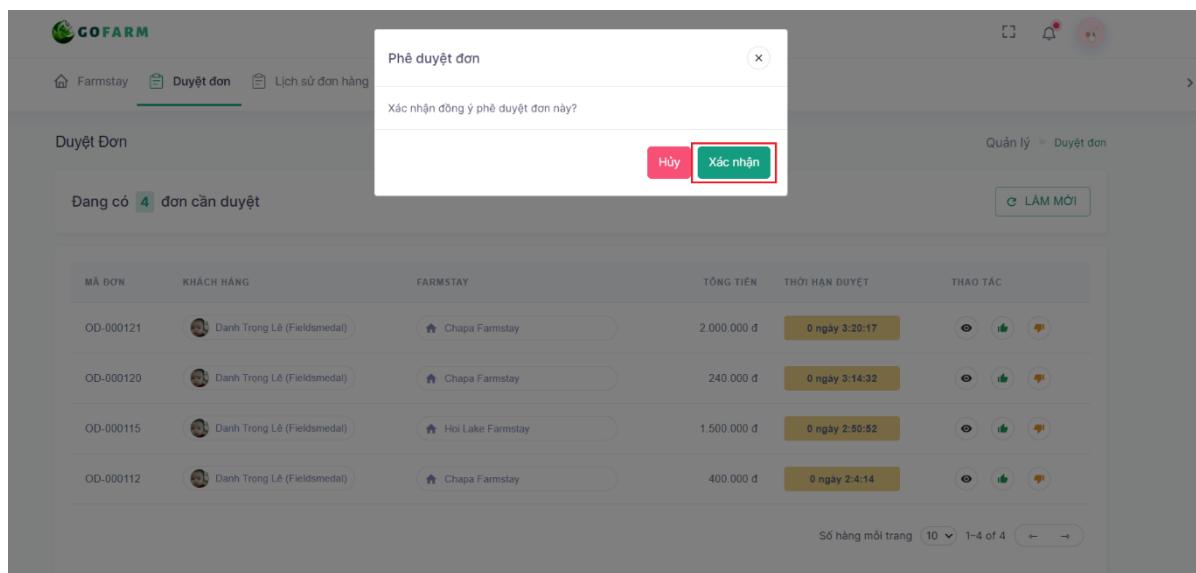
Step 2: Click on “Chấp nhận” icon in “Thao tác” field. “Phê duyệt đơn” popup is displayed

Phê duyệt đơn

Xác nhận đồng ý phê duyệt đơn này?

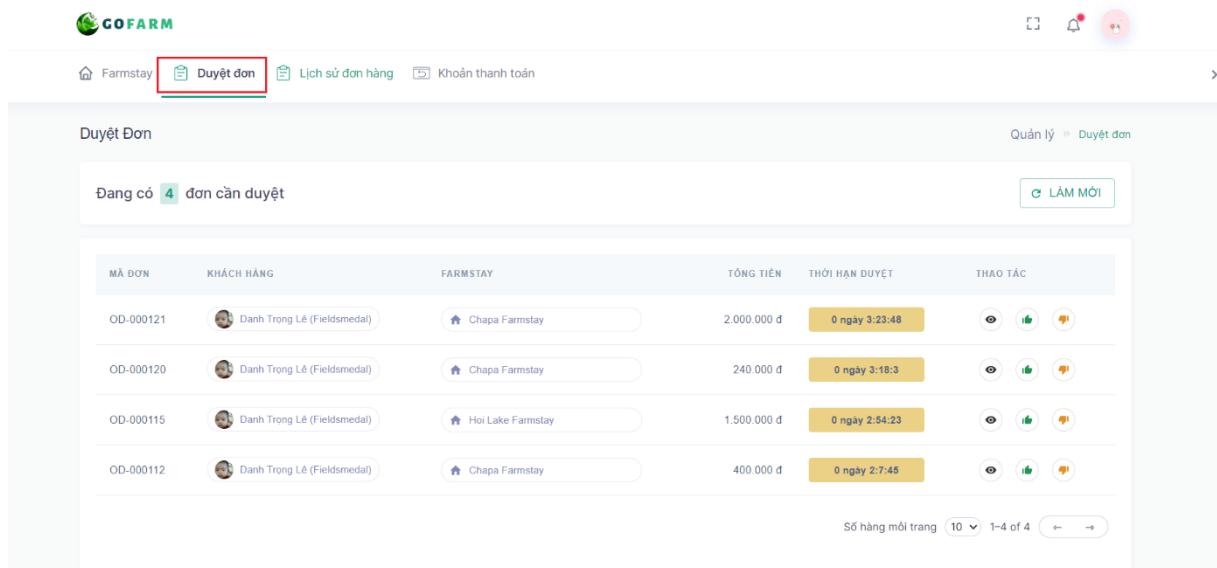
Hủy Xác nhận

Step 3: Click on “Xác nhận” button in “Phê duyệt đơn” popup

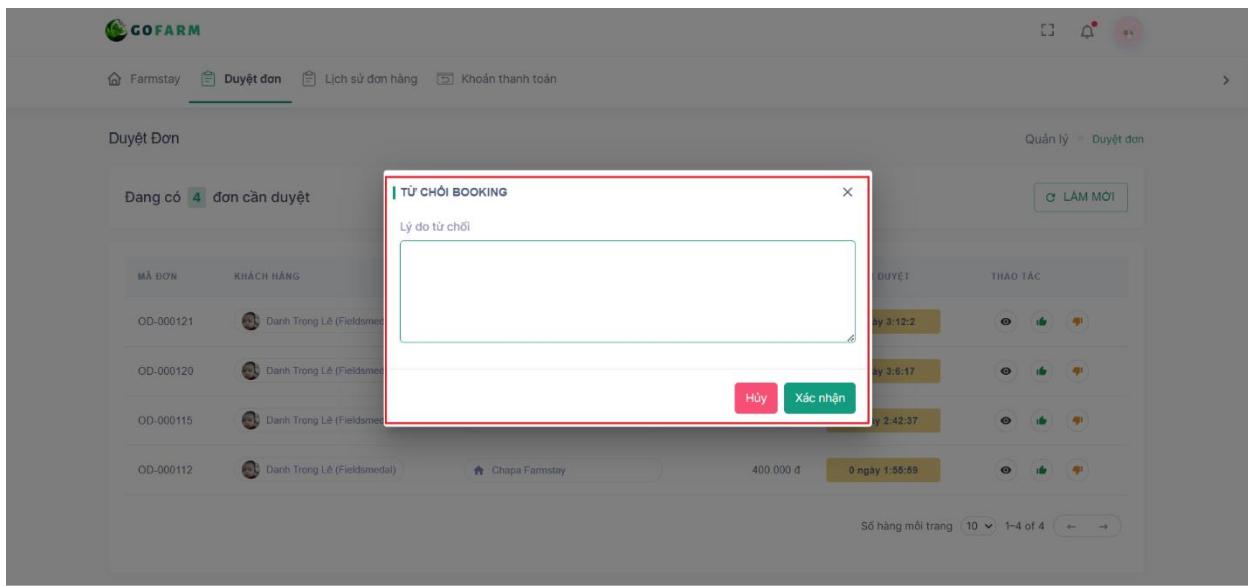


3.2.10 <Host> Reject the customer's request

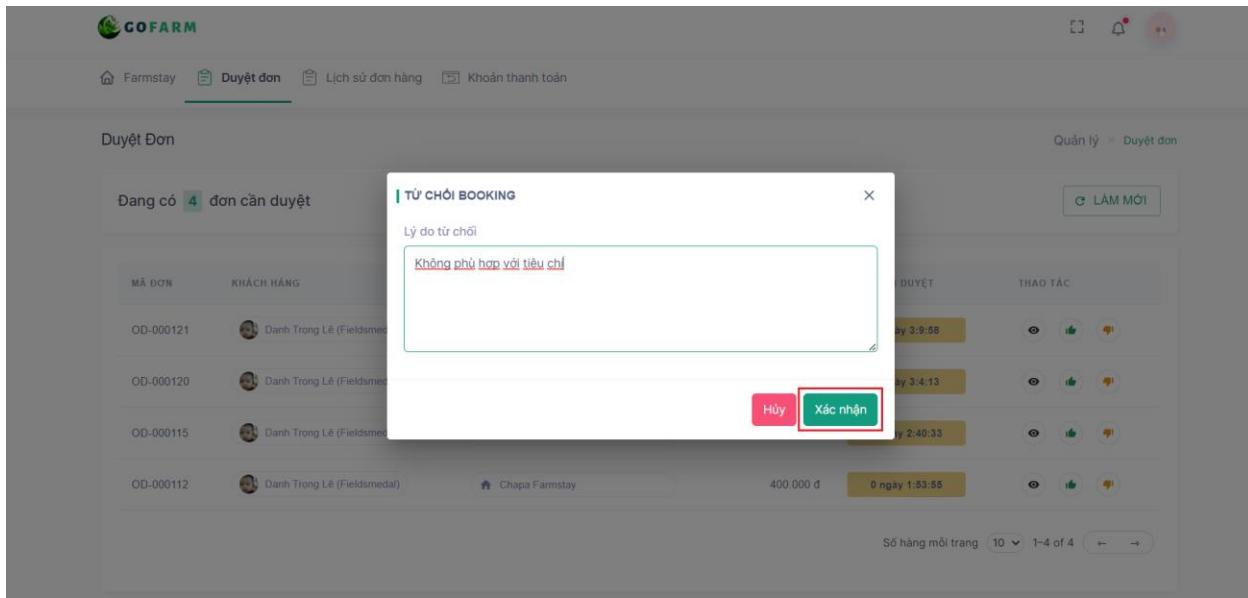
Step 1: Click on “Duyệt đơn” tab to approve the customer’s request



Step 2: Click on “Chấp nhận” icon in “Thao tác” field. “Phê duyệt đơn” popup is displayed



Step 3: Enter reason reject the booking and click on “Xác nhận” button



3.3 Web Application for Admin

3.3.1 Manage Host

Step 1: Click on “Chủ farmstay” item in dropdown to view list host

Mã	Họ và Tên	Email	Số điện thoại	Trạng thái	Thao tác
HO-000304	Nhung Le	mynhungld0201@gmail.com		Dang hoạt động	
HO-000302	Nhung Le	mynhungld0201@gmail.com		Dang hoạt động	
HO-000265	gofarm service	gofarm.service@gmail.com		Dang hoạt động	
HO-000075	Nhung Le	mynhungchibi@gmail.com		Dang hoạt động	

Step 2: Click on “Xem chi tiết” button in “Thao tác” field to view information details

Mã	Họ và Tên	Email	Số điện thoại	Trạng thái	Thao tác
HO-000304	Nhung Le	mynhungld0201@gmail.com		Dang hoạt động	
HO-000302	Nhung Le	mynhungld0201@gmail.com		Dang hoạt động	
HO-000265	gofarm service	gofarm.service@gmail.com		Dang hoạt động	
HO-000075	Nhung Le	mynhungchibi@gmail.com		Dang hoạt động	

The screenshot shows a user profile for 'Nhung Le'. The profile includes a circular profile picture of green plants, the name 'Nhung Le', and contact information: 'Sđt:' and 'Email: mynhungid0201@gmail.com'. Below the profile, there are tabs for 'Thông tin' (Information) and 'Tài khoản ngân hàng' (Banking account). Under 'Thông tin', there is a section for 'Thông tin cơ bản' (Basic information) containing fields for 'Họ và tên' (Name), 'Ngày sinh' (Date of birth), 'Họ' (Last name), 'Tên' (First name), 'Số điện thoại' (Phone number), 'Email', and 'Địa chỉ' (Address). The 'Email' field contains 'mynhungid0201@gmail.com'.

3.3.2 Manage Customer

Step 1: Click on “Khách du lịch” item in dropdown to view list customer

The screenshot shows a list of customers under the 'Khách Du Lịch' tab. The top navigation bar has 'Khách Du Lịch' highlighted with a red box. The search bar contains 'Tìm kiếm theo tên' and a 'Tìm kiếm' button. Below the search bar are filters for 'Trạng thái' (Status) and 'Ngày tạo gần nhất' (Created recently). The main table lists four customers:

MÃ	HỌ VÀ TÊN	EMAIL	SỐ ĐIỆN THOẠI	TRẠNG THÁI	THAO TÁC
CU-000192	Trần Ngọc Hương	tranhuongvb123@gmail.com	0988009001	Đang hoạt động	
CU-000111	Nguyễn Thị Thu Thảo (K14 HCM)	thaontse141101@fpt.edu.vn		Đang hoạt động	
CU-000057	Hai Anh	nguyendanghaianh123@gmail.com		Đang hoạt động	
CU-000030	Le Doan My Nhung 123	nhungldmse151295@fpt.edu.vn		Đang hoạt động	

Step 2: Click on “Xem chi tiết” button in “Thao tác” field to view information details

MÃ	HỌ VÀ TÊN	EMAIL	SỐ ĐIỆN THOẠI	TRẠNG THÁI	THAO TÁC
CU-000192	Trần Ngọc Hương	tranhuongvb123@gmail.com	0988009001	Dang hoạt động	
CU-000111	Nguyễn Thị Thu Thảo (K14 HCM)	thaontse141101@fpt.edu.vn		Dang hoạt động	
CU-000057	Hai Anh	nguyendanghienhien123@gmail.com		Dang hoạt động	
CU-000030	Le Doan My Nhung 123	nhungldmse151285@fpt.edu.vn		Dang hoạt động	

3.3.3 Manage Farmstay

Step 1: Click on “Danh sách farmstay” item in dropdown to view list farmstay

MÃ	TÊN	CHỦ SỞ HỮU	DÁNH GIÁ	TRẠNG THÁI	THAO TÁC
FR-000036	Bến Tre Farmstay	Nhung Le	100.000đ	Chưa kích hoạt	
FR-000035	gó gó gó	NGUYEN	100.000đ	Dang hoạt động	
FR-000034	Farmstay Số 1	NGUYEN	100.000đ	Dang hoạt động	
FR-000033	abc	Lê Danh Trọng	100.000đ	Chưa kích hoạt	

Step 2: Click on “Xem chi tiết” button in “Thao tác” field to view information details

The screenshot displays two pages of the GOFARM platform:

Top Page (Farmstay List):

- Header:** GOFARM, Total Control, Account, Farmstay (highlighted with a red box), Orders, Order Cancellation, Feedback, Category Management.
- Breadcrumbs:** Category Management > Farmstay > List.
- Search Bar:** Search by name, Status (dropdown), and Date created (dropdown).
- Table:**| MÃ | TÊN | CHỦ SỞ HỮU | DÁNH GIÁ | TRẠNG THÁI | THAO TÁC |
| --- | --- | --- | --- | --- | --- |
| FR-000036 | Bến Tre Farmstay | Nhung Le | | Chưa kích hoạt | |
| FR-000035 | go go go | NGUYEN | | Đang hoạt động | |
| FR-000034 | Farmstay Số 1 | NGUYEN | | Đang hoạt động | |
| FR-000033 | abc | Lê Danh Trọng | | Chưa kích hoạt | |

3.3.4 Review Farmstay

Step 1: Click on “Phê duyệt farmstay” item in dropdown to view the list of farmstay requests that need to be reviewed.

Phê duyệt Farmstay

Đang có 12 farmstay cần phê duyệt

LÀM MỚI

MÃ	TÊN GỌI	CHỦ SỞ HỮU	THAO TÁC
FR-000033	abc	Lê Danh Trọng	
FR-000028	center	Lê Danh Trọng	
FR-000022	HomeFarm	NGUYEN	
FR-000021	Berry Garden – Farmstay	NGUYEN	
FR-000013	Mai Châu Farmstay	Lê Danh Trọng	

Step 2: Click on “Phê duyệt” icon “Thao tác” field

Phê Duyệt Farmstay

Đang có 12 farmstay cần phê duyệt

LÀM MỚI

MÃ	TÊN GỌI	CHỦ SỞ HỮU	THAO TÁC
FR-000033	abc	Lê Danh Trọng	
FR-000028	center	Lê Danh Trọng	
FR-000022	HomeFarm	NGUYEN	
FR-000021	Berry Garden – Farmstay	NGUYEN	Phê duyệt
FR-000013	Mai Châu Farmstay	Lê Danh Trọng	
FR-000014	Mekong Farmstay CanTho	Thu Thảo	

Step 3: Click on “Thực hiện phê duyệt” button in the farmstay detail page

Chi Tiết Farmstay FR-000064

Quản lý > Farmstay > Phê duyệt > Chi tiết

Đồng Lập

Chủ sở hữu: N Nhung Lê

Địa chỉ: 123, Xã Hưng Đạo, Huyện Bảo Lạc, Tỉnh Cao Bằng, Việt Nam

Liên hệ: 09152486513

THỰC HIỆN PHÊ DUYỆT

Thông tin Hoạt động Phòng Dịch vụ Quy định Hỏi đáp

Mô tả

Chưa có mô tả

Phương thức liên hệ

Số điện thoại: 09152486513

Step 4: Check all the appropriate criteria, if the host created farmstay according to the criteria. Then clicks on “Gửi đánh giá” button.

PHÊ DUYỆT FARMSTAY

1. Farmstay cần có đầy đủ thông tin

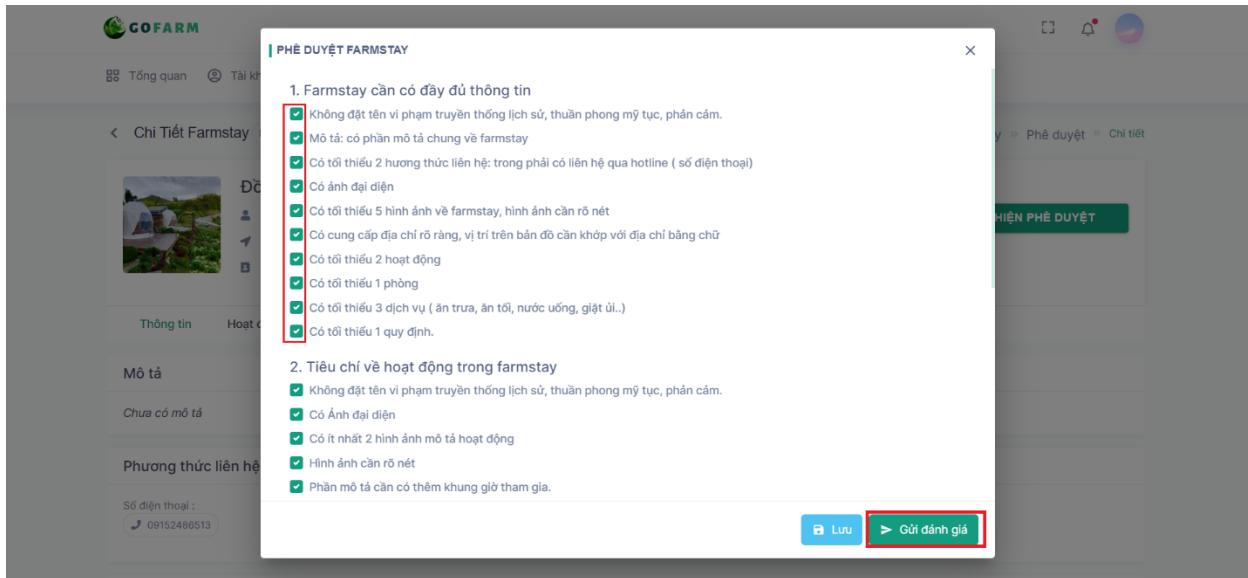
- Không đặt tên vi phạm truyền thống lịch sử, thuần phong mỹ tục, phản cảm.
- Mô tả: có phần mô tả chung về farmstay
- Có tối thiểu 2 phương thức liên hệ: trong phải có liên hệ qua hotline (số điện thoại)
- Có ảnh đại diện
- Có tối thiểu 5 hình ảnh về farmstay, hình ảnh cẩn rõ nét
- Có cung cấp địa chỉ rõ ràng, vị trí trên bản đồ căn khớp với địa chỉ bằng chữ
- Có tối thiểu 2 hoạt động
- Có tối thiểu 1 phòng
- Có tối thiểu 3 dịch vụ (ăn trưa, ăn tối, nước uống, giặt ủi..)
- Có tối thiểu 1 quy định.

2. Tiêu chí về hoạt động trong farmstay

- Không đặt tên vi phạm truyền thống lịch sử, thuần phong mỹ tục, phản cảm.
- Có Ánh đại diện
- Có ít nhất 2 hình ảnh mô tả hoạt động
- Hình ảnh cẩn rõ nét
- Phần mô tả cần có thêm khung giờ tham gia.

Lưu > Gửi đánh giá

HIỆN PHÊ DUYỆT



Step 5: The status of farmstay changed to “Đang hoạt động” status

Step 6: If there is a criterion that does not appropriate, host received an email



3.3.5 Manage Room Category

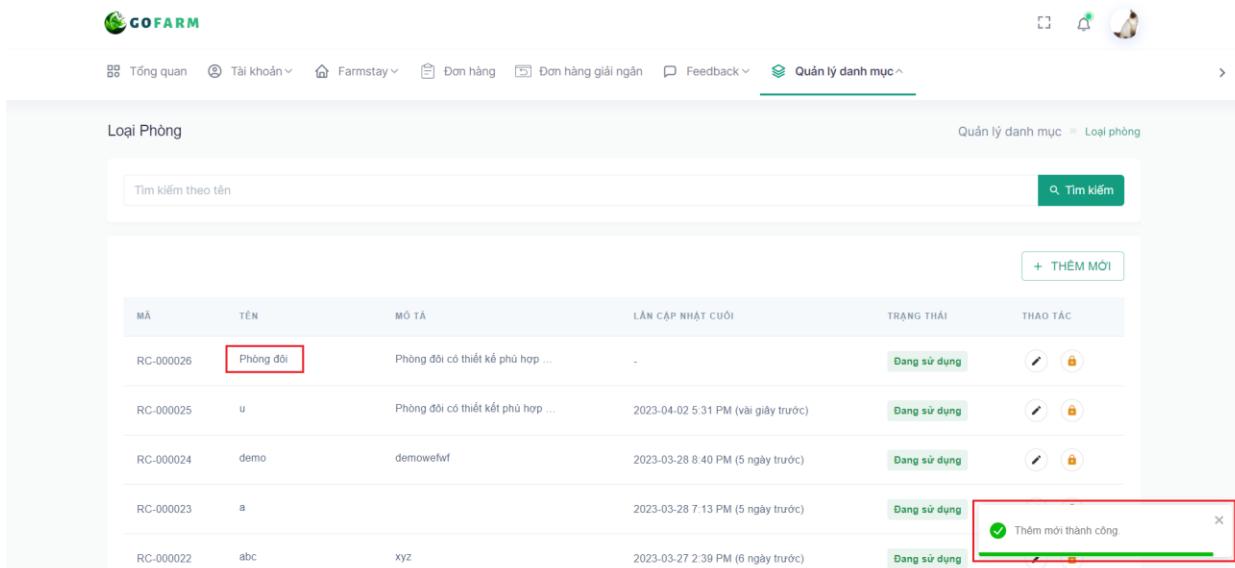
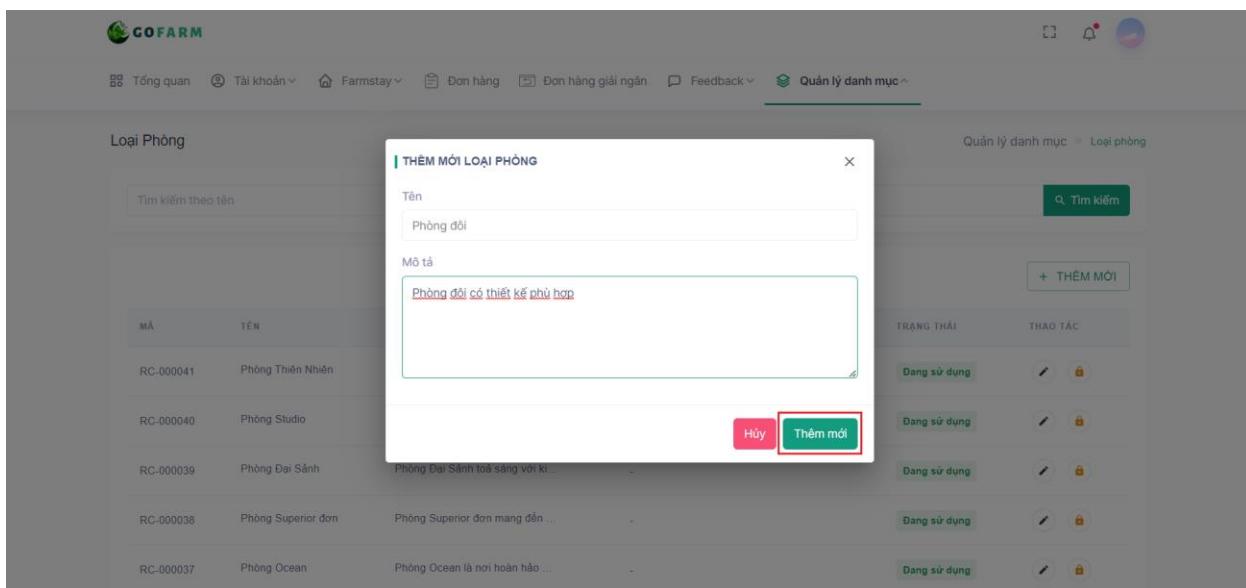
Step 1: Click on “Loại phòng” item in dropdown

The screenshot shows the COFARM software interface. At the top, there is a navigation bar with links like 'Tổng quan', 'Tài khoản', 'Farmstay', 'Đơn hàng', 'Đơn hàng giải ngân', 'Feedback', and 'Quản lý danh mục'. The 'Quản lý danh mục' link is currently active, indicated by a green underline. Below the navigation bar, the page title is 'Loại Phòng' (Room Type). There is a search bar labeled 'Tim kiếm theo tên' (Search by name) and a 'Tìm kiếm' (Search) button. On the right side of the page, there is a sidebar with the path 'Quản lý danh mục > Loại phòng'. A context menu is open over the first row of the table, with the 'Loại phòng' option selected and highlighted with a red box. The table has columns: MÃ (ID), TÊN (Name), MÔ TẢ (Description), LẦN CẬP NHẬT CUỐI (Last Update), TRẠNG THÁI (Status), and THAO TÁC (Actions). The status column for all rows is 'Đang sử dụng' (In use). The actions column contains edit and lock icons.

MÃ	TÊN	MÔ TẢ	LẦN CẬP NHẬT CUỐI	TRẠNG THÁI	THAO TÁC
RC-000024	demo	demowefwf	2023-03-28 8:40 PM (5 ngày trước)	Đang sử dụng	
RC-000023	a		2023-03-28 7:13 PM (5 ngày trước)	Đang sử dụng	
RC-000022	abc	xyz	2023-03-27 2:39 PM (6 ngày trước)	Đang sử dụng	
RC-000021	Phòng test11111	hay	-	Đang sử dụng	

Step 2: Click on “Thêm mới” button. Enter all field in textboxes and clicks on “Thêm mới” button

This screenshot is identical to the one above, showing the 'Loại Phòng' management page. The 'Quản lý danh mục' link in the navigation bar is still underlined in green. The '+ THÊM MỚI' button in the top right corner of the table area is now highlighted with a red box, indicating the next step in the process.



Step 3: Click on “Chỉnh sửa” icon. Enter all field in textboxes and click on “Lưu” button

Loại Phòng

Tìm kiếm theo tên

Quản lý danh mục > Loại phòng

+ THÊM MỚI

MÃ	TÊN	MÔ TẢ	LÃN CẤP NHẬT CUỐI	TRẠNG THÁI	THAO TÁC
RC-000026	Phòng đôi	Phòng đôi có thiết kế phù hợp ...	-	Đang sử dụng	
RC-000025	u	Phòng đôi có thiết kế phù hợp ...	2023-04-02 5:31 PM (3 phút trước)	Đang sử dụng	
RC-000024	demo	demowefwf	2023-03-28 8:40 PM (5 ngày trước)	Đang sử dụng	
RC-000023	a		2023-03-28 7:13 PM (5 ngày trước)	Đang sử dụng	

Loại Phòng

Tìm kiếm theo tên

Quản lý danh mục > Loại phòng

+ THÊM MỚI

CHỈNH SỬA

Tên: Phòng Thiên Nhiên

Mô tả: Không gian lãng mạn và hòa hợp với thiên nhiên

Hủy Lưu

MÃ	TÊN	TRẠNG THÁI	THAO TÁC
RC-000041	Phòng Thiên Nhiên	Đang sử dụng	
RC-000040	Phòng Studio	Đang sử dụng	
RC-000039	Phòng Đại Sảnh	Đang sử dụng	
RC-000038	Phòng Superior đơn	Đang sử dụng	
RC-000037	Phòng Ocean	Đang sử dụng	

Loại Phòng

Tìm kiếm theo tên

Quản lý danh mục > Loại phòng

+ THÊM MỚI

MÃ	TÊN	MÔ TẢ	LẦN CẬP NHẬT CUỐI	TRẠNG THÁI	THAO TÁC
RC-000026	Phòng đôi new	Phòng đôi có thiết kế phù hợp ...	2023-04-02 5:36 PM (vài giây trước)	Đang sử dụng	
RC-000025	u	Phòng đôi có thiết kế phù hợp ...	2023-04-02 5:31 PM (6 phút trước)	Đang sử dụng	
RC-000024	demo	demowefwf	2023-03-28 8:40 PM (5 ngày trước)	Đang sử dụng	
RC-000023	a		2023-03-28 7:13 PM (5 ngày trước)	Đang sử dụng	
RC-000022	abc	xyz	2023-03-27 2:39 PM (6 ngày trước)	Đang sử dụng	

Cập nhật thành công.

Step 4: Click on “Khóa” icon and then click on “Xác nhận” button

Loại Phòng

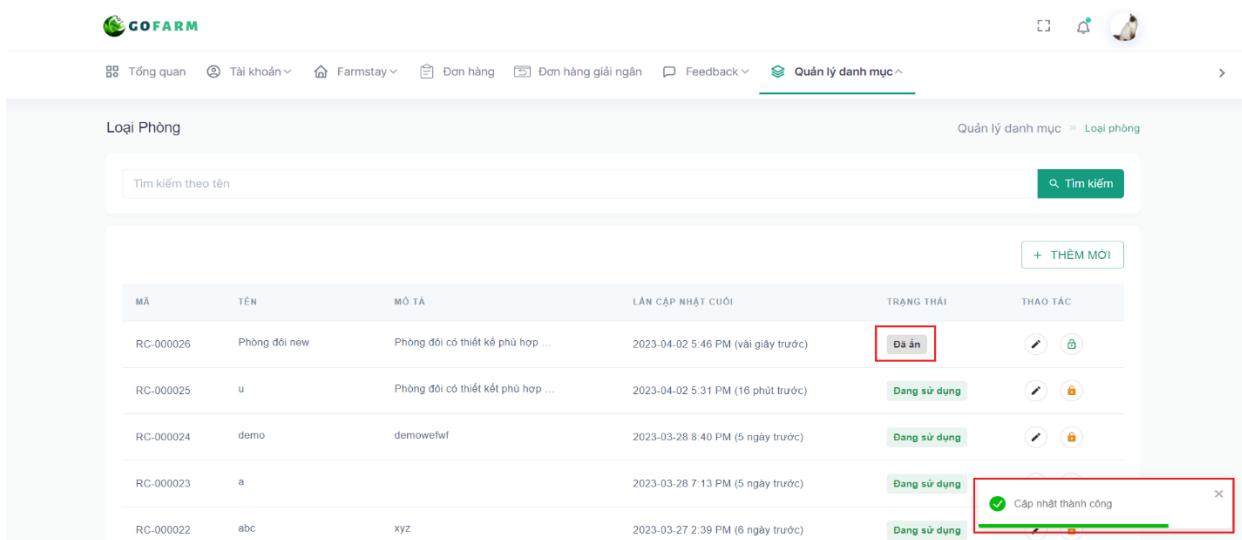
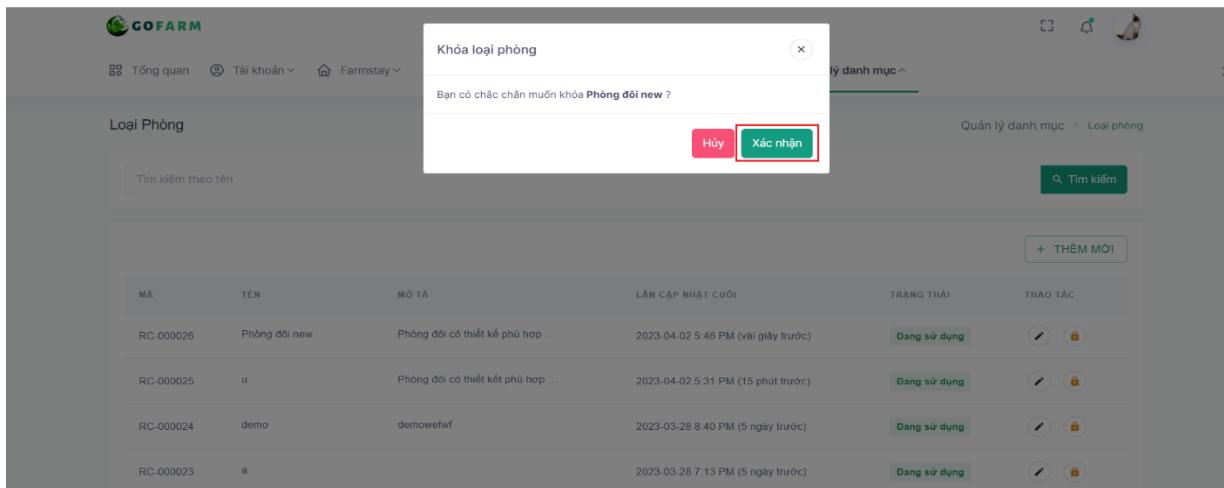
Tìm kiếm theo tên

Quản lý danh mục > Loại phòng

+ THÊM MỚI

MÃ	TÊN	MÔ TẢ	LẦN CẬP NHẬT CUỐI	TRẠNG THÁI	THAO TÁC
RC-000026	Phòng đôi new	Phòng đôi có thiết kế phù hợp ...	2023-04-02 5:46 PM (vài giây trước)	Đang sử dụng	
RC-000025	u	Phòng đôi có thiết kế phù hợp ...	2023-04-02 5:31 PM (15 phút trước)	Đang sử dụng	
RC-000024	demo	demowefwf	2023-03-28 8:40 PM (5 ngày trước)	Đang sử dụng	
RC-000023	a		2023-03-28 7:13 PM (5 ngày trước)	Đang sử dụng	

Cập nhật thành công.



3.3.6 Manage Service Category

The screenshot shows the 'Quản lý danh mục' (Category Management) section for 'Loại Dịch Vụ'. The table lists three categories:

MÃ	TÊN	MÔ TẢ	LẦN CẬP NHẬT CUỐI	TRẠNG THÁI	THAO TÁC
SC-000026	Giặt Ủi	giặt Ủi	2023-04-02 5:49 PM (vài giây trước)	Đang sử dụng	+ Chỉnh sửa Khóa
SC-000025	Đi xe máy	Đi xe máy	2023-04-02 5:49 PM (vài giây trước)	Đang sử dụng	+ Chỉnh sửa Khóa
SC-000024	Dịch vụ thể thao	Thể thao ngoài trời	2023-04-02 5:50 PM (vài giây trước)	Đang sử dụng	+ Chỉnh sửa Khóa

3.3.7 Manage Tag Category

The screenshot shows the 'Thẻ Mô Tả' (Tag Category) management page. The table lists four categories:

MÃ	THẺ	MÔ TẢ	LẦN CẬP NHẬT CUỐI	TRẠNG THÁI	THAO TÁC
TG-000016	Tham quan và khám phá	Tham quan	2023-04-02 5:54 PM (vài giây trước)	Đang sử dụng	+ Chỉnh sửa Khóa
TG-000015	Thưởng thức ẩm thực	Thưởng thức ẩm thực	2023-04-02 5:54 PM (vài giây trước)	Đang sử dụng	+ Chỉnh sửa Khóa
TG-000014	Thể thao ngoài trời	Thể thao ngoài trời	2023-04-02 5:54 PM (vài giây trước)	Đang sử dụng	+ Chỉnh sửa Khóa
TG-000004	Thể thao ngoài trời	Thể thao ngoài trời là hoạt độn...	2023-03-23 11:32 PM (10 ngày trước)	Đang sử dụng	+ Chỉnh sửa Khóa

3.3.8 Manage Order

Step 1: Click on “Đơn hàng” tab to view list orders

MÃ ĐƠN	KHÁCH HÀNG	TỔNG TIỀN	THỜI GIAN TẠO ĐƠN	TRẠNG THÁI	THAO TÁC
OD-000078	Trần Ngọc Hương	3.000.000 đ	2023-04-01 9:23 PM (2 ngày trước)	Khách hàng hủy đơn	
OD-000077	Trần Ngọc Hương	4.500.000 đ	2023-04-01 9:13 PM (2 ngày trước)	Thất bại	
OD-000076	Trần Ngọc Hương	2.000.000 đ	2023-04-01 8:55 PM (2 ngày trước)	Thất bại	

Step 2: Click on “Xem chi tiết” icon in “Thao tác” field to view order detail

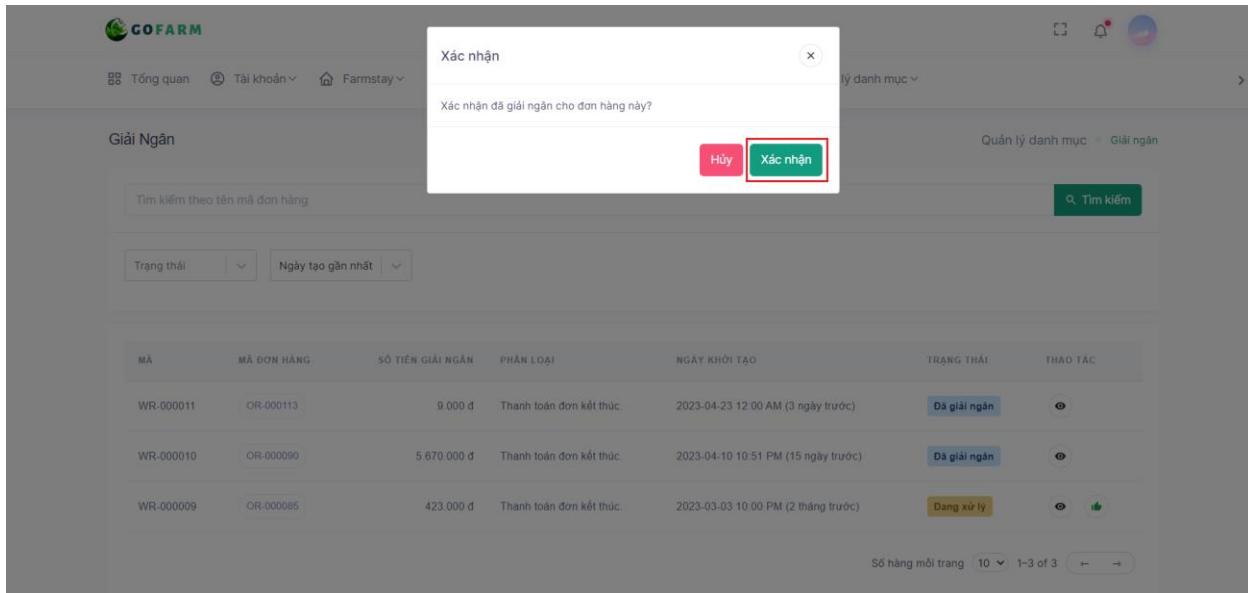
MÃ ĐƠN	KHÁCH HÀNG	TỔNG TIỀN	THỜI GIAN TẠO ĐƠN	TRẠNG THÁI	THAO TÁC
OD-000078	Trần Ngọc Hương	3.000.000 đ	2023-04-01 9:23 PM (2 ngày trước)	Khách hàng hủy đơn	
OD-000077	Trần Ngọc Hương	4.500.000 đ	2023-04-01 9:13 PM (2 ngày trước)	Thất bại	
OD-000076	Trần Ngọc Hương	2.000.000 đ	2023-04-01 8:55 PM (2 ngày trước)	Thất bại	

3.3.9 Manage Disbursement

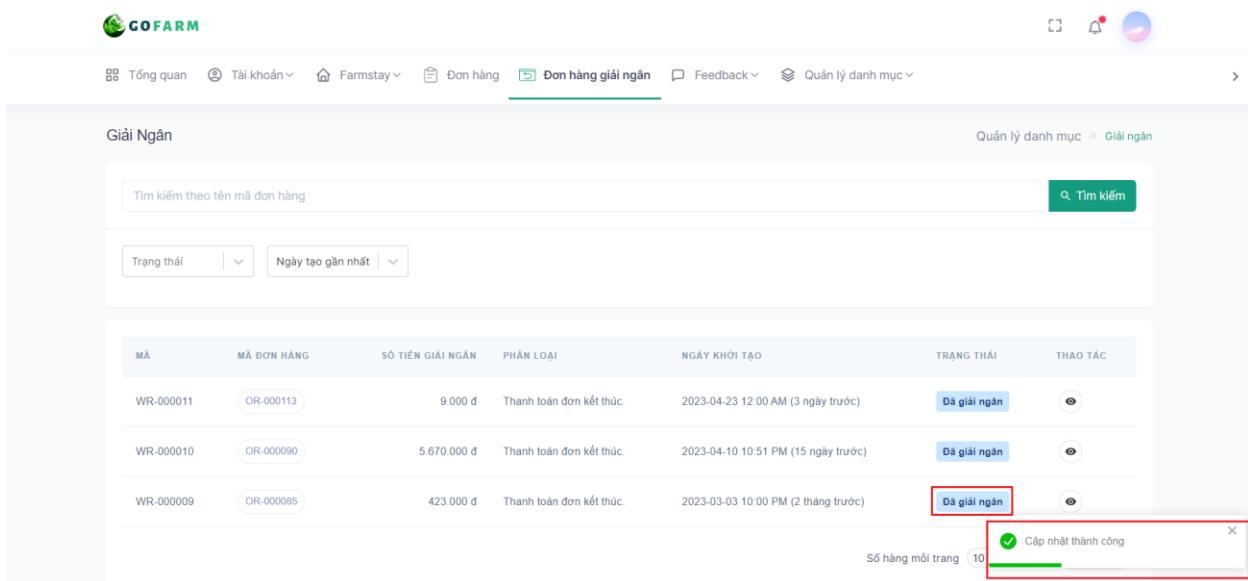
Step 1: Click on “Đơn hàng giải ngân” tab to view list disbursements

Step 2: Click on “Xác nhận” icon in “Thao tác” field to confirm a disbursement order

Step 3: “Xác nhận” popup is displayed. The actor clicks on “Xác nhận” button to confirm a disbursement order



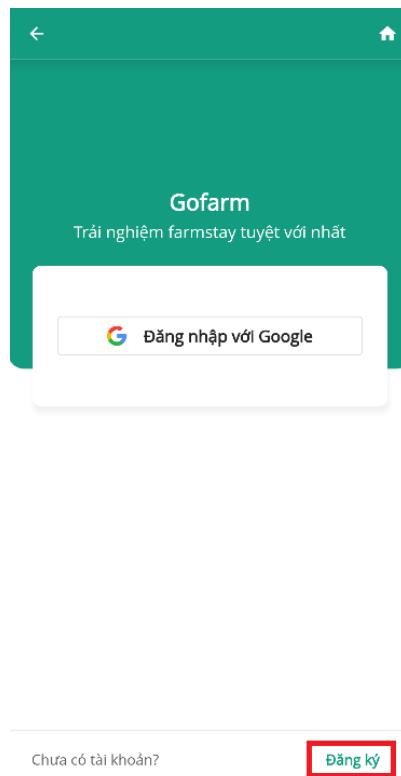
Step 4: The message shows “Cập nhật thành công”. The status changed to “Đã giải ngân” status



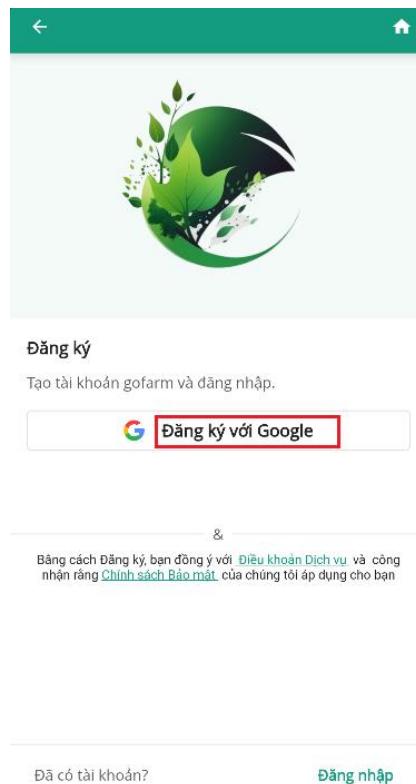
3.4 Mobile Application for Customer

3.4.1 <Customer> Sign up

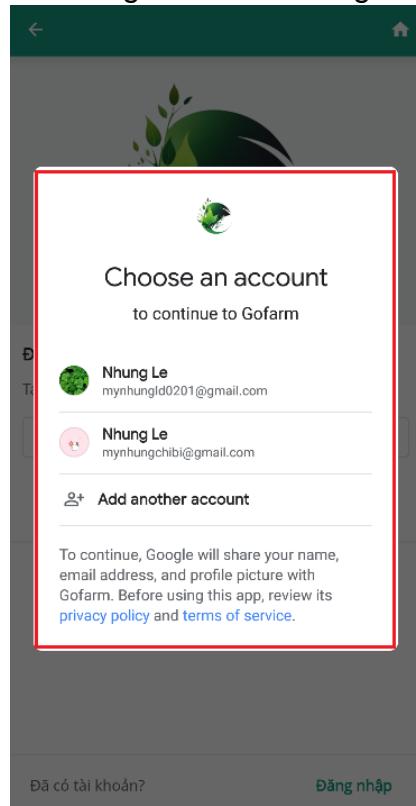
Step 1: Customer presses on “Đăng ký” button on the sign in screen. The application will navigate to the sign up screen



Step 2: Customer presses on “Đăng ký với tài khoản Google” button in the sign up screen



Step 3: The customer chose a Google account to sign up

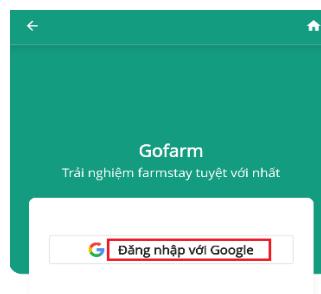


Step 4: After choosing the Google account, customer will be redirected to the home screen



3.4.2 <Customer> Sign in

Step 1: Customer presses on “Đăng nhập với tài khoản Google” button in the sign in screen



Step 2: After choosing the Google account, customer will be redirected to the home screen



3.4.3 <Customer> View farmstay detail

Step 1: Go to home screen. Customer presses on a farmstay



Step 2: Navigate to the farmstay details screen and shows information of farmstay

The screenshot shows the Chapa Farmstay mobile application interface. At the top, there's a banner with a scenic view of a valley. Below it, the main content area has three tabs: 'Hoạt động' (Activities), 'ĐÁNH GIÁ (0)' (Reviews), and 'PHÒNG (3)' (Rooms). The 'Hoạt động' tab is active, displaying four activity options: 'Câu cá' (Fishing), 'Nấu cơm niêu' (Cooking rice in a pot), 'Sưởi ấm bên lửa trại' (Warming up by the campfire), and 'Thu hoạch trái cây' (Harvesting fruit). Each activity has a small icon and the text 'Còn chỗ' (Available). To the right of these, there are sections for 'DỊCH VỤ' (Services) like laundry and room cleaning, and 'CÂU HỎI THƯỜNG GẶP' (FAQs) about room prices. At the bottom left, there's a calendar showing dates from T3/25/4 to T7/29/4, with T3/25/4 highlighted. On the far right, there's a section for 'QUY ĐỊNH' (Rules) with a link to 'Liên hệ' (Contact).

3.4.4 <Customer> View activity detail

Step 1: Customer presses on an activity on farmstay details screen

The screenshot shows the La Ferme Du Colvert Resort & Spa mobile application. At the top, there's a banner with a scenic view of a resort building. Below it, the main content area has three tabs: 'Hoạt động' (Activities), 'ĐÁNH GIÁ (0)' (Reviews), and 'PHÒNG (3)' (Rooms). The 'Hoạt động' tab is active, displaying four activity options: 'Trồng dâu tây' (Planting strawberries), 'Đi thuyền' (Boat trip), 'Thả diều' (Kite flying), and 'Làm kẹo dừa' (Making coconut candy). The 'Trồng dâu tây' option is highlighted with a red box. To the right of these, there are sections for 'LỊCH HOẠT ĐỘNG' (Activity schedule) showing dates from T7/22/4 to T4/26/4, and 'LIÊN HỆ' (Contact) with a phone number. At the bottom left, there's a calendar showing dates from T7/22/4 to T4/26/4, with T7/22/4 highlighted.

Step 2: Navigate to the activity details screen and shows information of activity

Thả diều

100.000 đ / vé

MÔ TẢ

Đây là hoạt động rất phổ biến tại các farmstay khách hàng sẽ được tự tay làm và thả diều tại các vùng đồi núi đồng ruộng hoặc bờ biển. Đây là một trải nghiệm thư giãn và giúp khách hàng thưởng thức khung cảnh thiên nhiên đẹp.

ĐẶT VÉ

Tháng 4 2023

CN	TH 2	TH 3	TH 4	TH 5	TH 6	TH 7	
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	
16	17	18	19	20	21	22	23
24	25	26	27	28	29		
30							

ẢNH MINH HỌA

3.4.5 <Customer> View room detail

Step 1: Customer presses on a room on farmstay details screen

T7
22/4

CN
23/4

T2
24/4

T3
25/4

T4
26/4

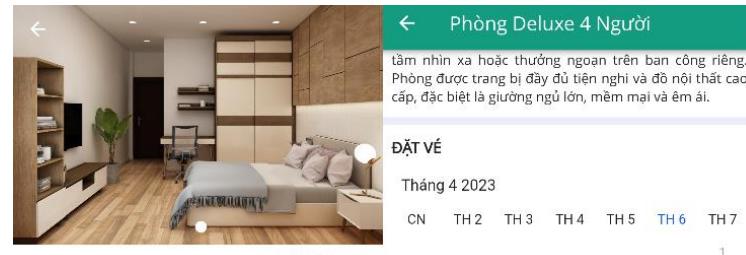
Hoạt động

- Trồng dâu tây
- Đi thuyền
- Thả diều
- Làm keo dừa

Phòng ở

- Phòng Tình Nhân
- Phòng Deluxe 4 Người
- Phòng honeymoon

Step 2: Navigate to the room details screen and shows information of room



← Phòng Deluxe 4 Người

MÔ TẢ

Phòng được thiết kế với kiến trúc hoàng gia cổ điển, tạo nên không gian đẳng cấp và sang trọng. Mở cửa sổ, khách hàng có thể tận hưởng không gian rộng lớn với tầm nhìn xa hoặc thưởng ngoạn trên ban công riêng. Phòng được trang bị đầy đủ tiện nghi và đồ nội thất cao cấp, đặc biệt là giường ngủ lớn, mềm mại và êm ái.

ĐẶT VÉ

Tháng 4 2023

CN	TH 2	TH 3	TH 4	TH 5	TH 6	TH 7
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

ẢNH MINH HỌA



3.4.6 <Customer> View service detail

Step 1: Customer presses on a service on farmstay details screen

← La Ferme Du Colvert Resort & ...

DỊCH VỤ

Dịch vụ bữa sáng	50.000 đ >
Dịch vụ đồ uống	50.000 đ >
Dịch vụ đi xe đạp	50.000 đ >
Dịch vụ ngâm chân	450.000 đ >

VỊ TRÍ

Tỉnh Bắc Giang

Thôn , Xã Trung Sơn, Huyện Việt Yên, Tỉnh Bắc Giang, Việt Nam

LIÊN HỆ

Số điện thoại: 0934756727
Email: laferme@gmail.com

HOẠT ĐỘNG (4)



Step 2: Navigate to the service details screen and shows information of service



Bữa sáng thường được phục vụ tại farmstay, với nhiều loại thực phẩm khác nhau như bánh mì, trứng, xúc xích, thịt hun khói, phô mai, bơ, mứt, nước trái cây, trà, cà phê và nhiều loại đồ uống khác. Thực phẩm được chế biến và sắp xếp đẹp mắt, hấp dẫn mắt và hương vị hấp dẫn.

3.4.7 <Customer> View policy detail

Step 1: Customer presses on a policy on farmstay details screen



Step 2: Navigate to the policy details screen and shows information of policy



Quy định

Chính sách an ninh

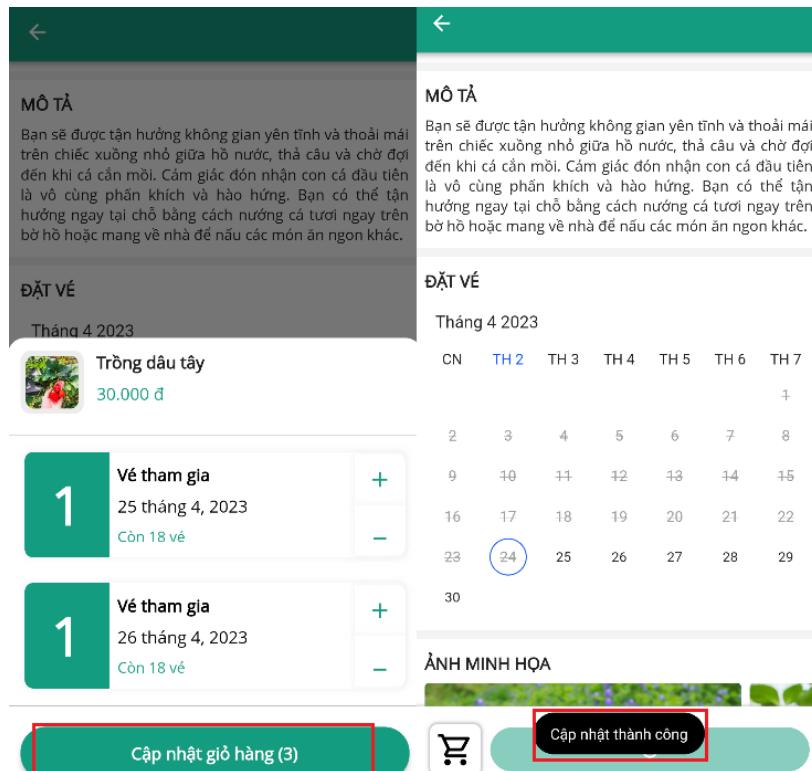
Farmstay có thể có các chính sách về an ninh nhằm đảm bảo sự an toàn cho khách hàng và nhân viên. Các chính sách này có thể bao gồm việc sử dụng hệ thống giám sát, hạn chế quyền truy cập vào khu vực nhân viên, kiểm tra an ninh cho khách hàng và đào tạo nhân viên về an ninh."

3.4.8 <Customer> Add an activity to cart

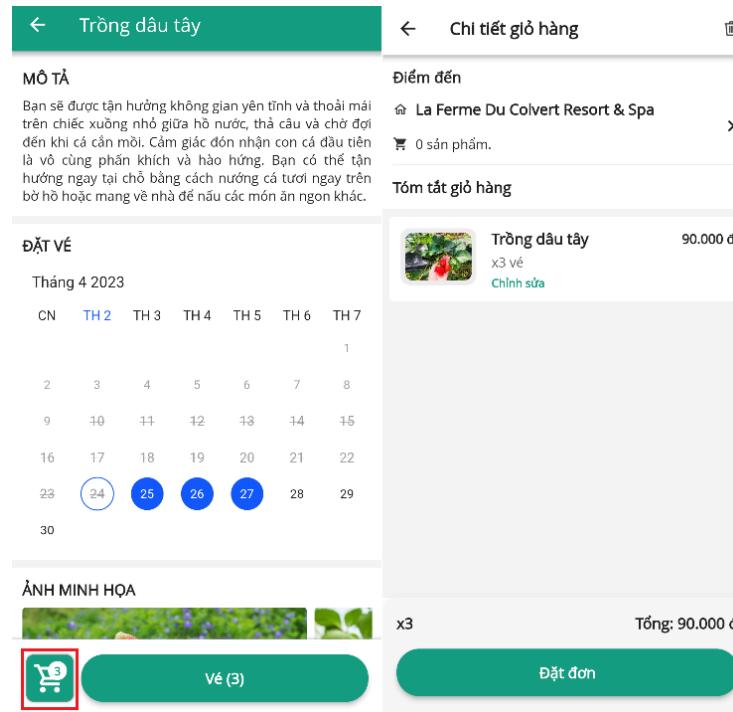
Step 1: Press on the date in the schedule to add activity to cart in the activity details screen



Step 2: Press on “Vé()” button. Choose quantity activity and presses on “Cập nhật giỏ hàng” button. Cart icon has been updated and shows the message "Thêm thành công"

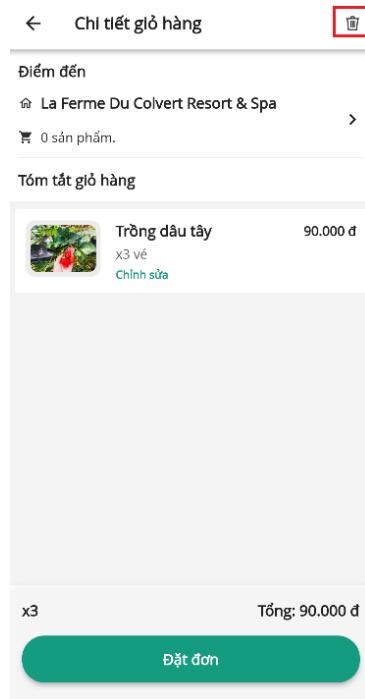


Step 3: Press on the cart icon. Navigate to the cart details screen

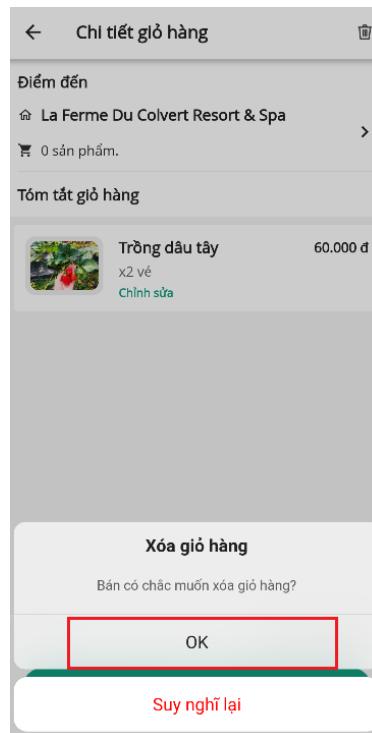


3.4.9 <Customer> Remove cart

Step 1: Press on trash icon in the the cart details screen



Step 2: Confirm popup is displayed. Press on “OK” button to remove cart



Step 3: Activity has been deleted and shows empty cart

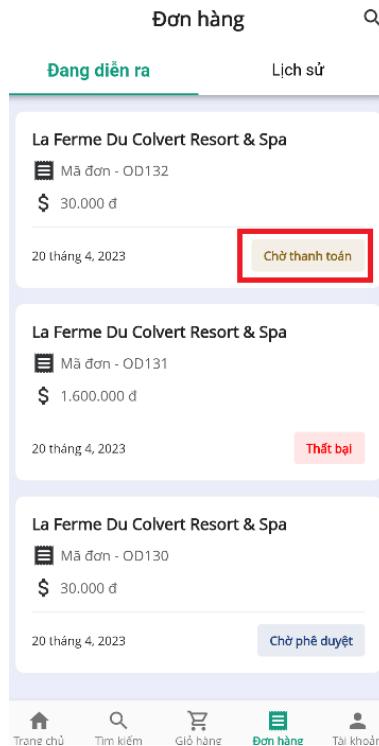


3.4.10 <Customer> Create a booking

Step 1: Press on the cart icon after adding items to the cart. The cart detail screen is displayed.

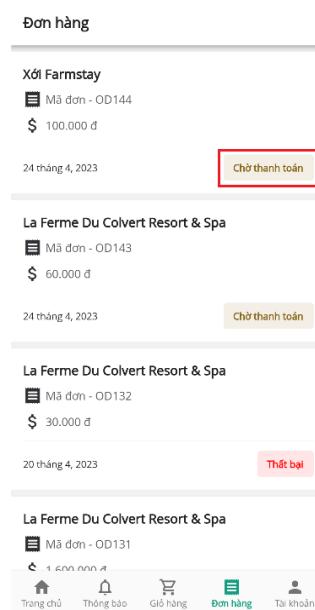


Step 2: Press the "Đặt đơn" button. The booking is created successfully. The customer can make the payment after 30 minutes. The status will be changed to "Chờ thanh toán" status.

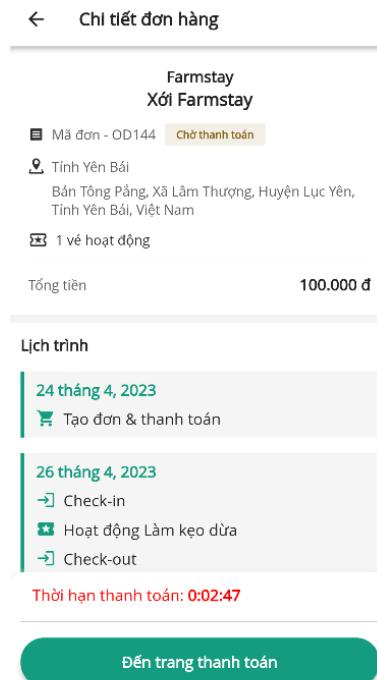


3.4.11 <Customer> Payment for the booking

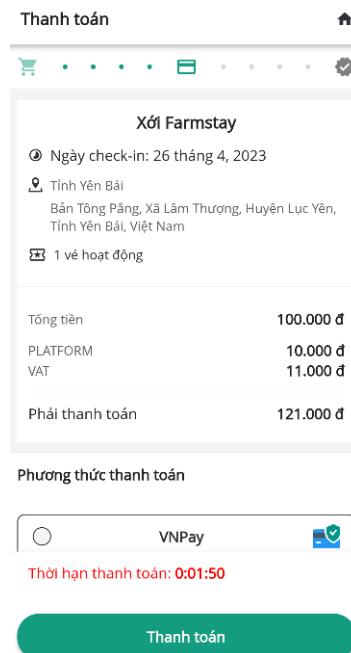
Step 1: Press on "Đơn hàng" tab in the navigation bar. Navigate to the list of order screen



Step 2: Press on an order with the "Chờ thanh toán" status. Navigate to the order detail screen

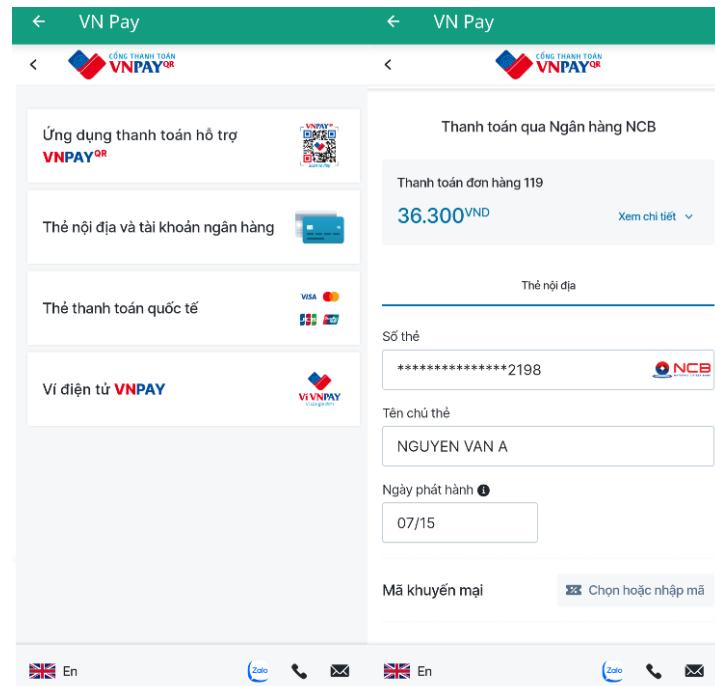


Step 3: Press on "Đến trang thanh toán" button. Navigate to “Thanh Toán” screen

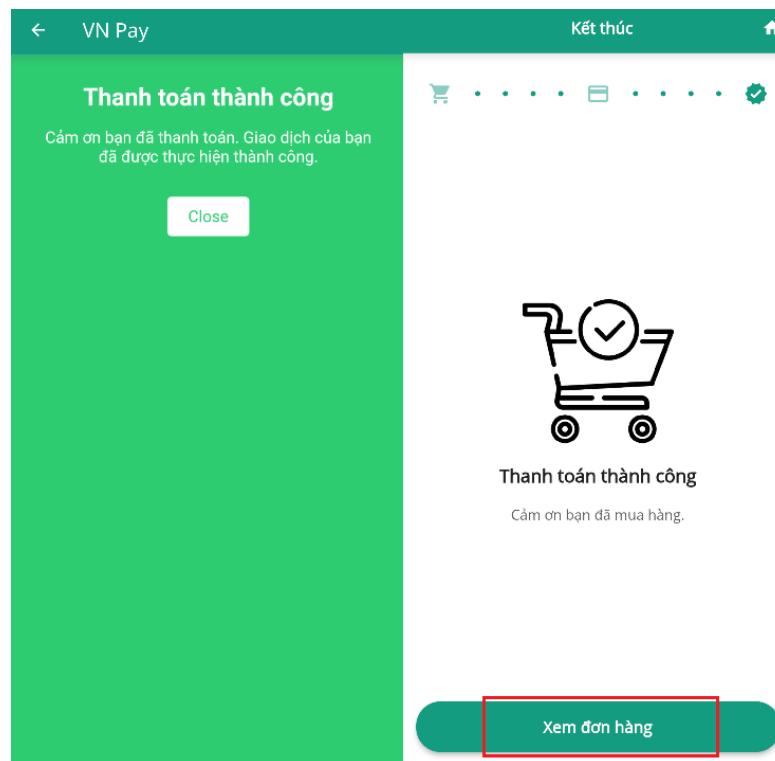


Step 4: Press on “Thanh toán” button. Navigate to VNPay screen

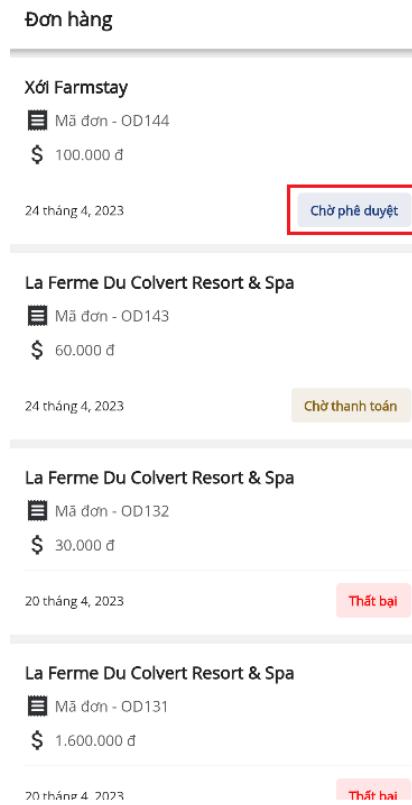
Step 5: Select a payment method and enter the necessary information for payment.



Step 5: Press on "Thanh toán" button in VNPay screen. Navigate to the payment successfully screen

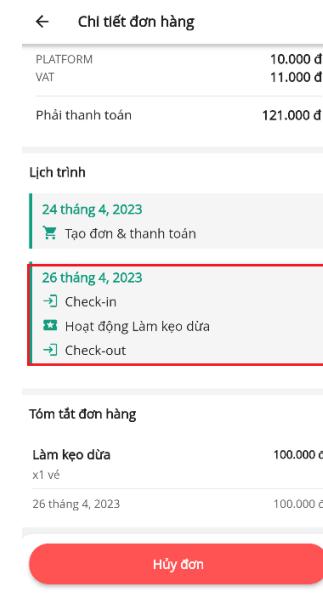


Step 6: Press on “Xem đơn hàng” button in payment successfully screen. Navigate to list order screen and the status changed to "Chờ phê duyệt" status

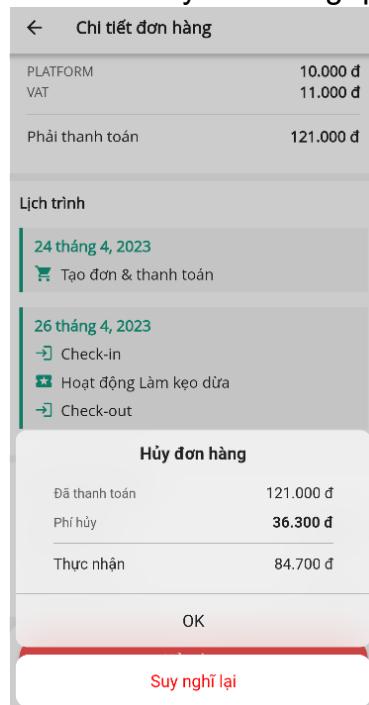


3.4.12 <Customer> Cancel a booking

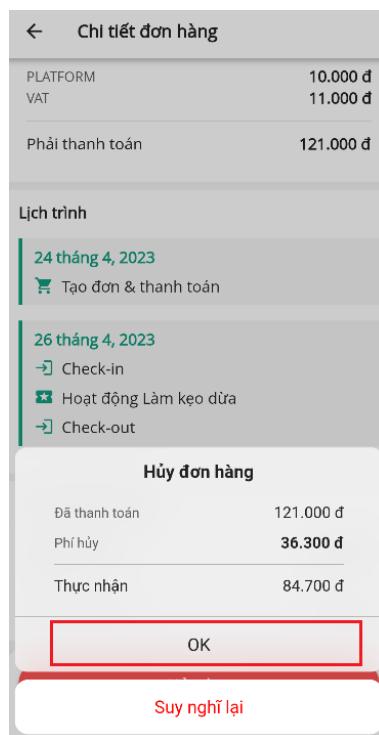
Step 1: The customer selects the booking they want to cancel. The booking cancel must be made at least 1 day prior to check-in date.



Step 2: Press on “Hủy đơn” button. “Hủy đơn hàng” popup is displayed



Step 3: Press on “OK” button in “Hủy đơn hàng” popup



Step 4: The booking has been cancelled successfully. The status has been changed to "Khách hàng hủy" status

Đơn hàng**Xởi Farmstay** Mã đơn - OD144

\$ 100.000 đ

24 tháng 4, 2023

Khách hàng hủy

La Ferme Du Colvert Resort & Spa Mã đơn - OD143

\$ 60.000 đ

24 tháng 4, 2023

Thất bại

La Ferme Du Colvert Resort & Spa Mã đơn - OD132

\$ 30.000 đ

20 tháng 4, 2023

Thất bại

La Ferme Du Colvert Resort & Spa Mã đơn - OD131

\$ 1.600.000 đ

20 tháng 4, 2023

Thất bại

3.4.13 <Customer> Feedback booking

Step 1: The customer selects the booking they want to feedback. The booking feedback must be made at least 1 day after to check-out date.

← Chi tiết đơn hàng

Tỉnh Bắc Giang
Thôn, Xã Trung Sơn, Huyện Việt Yên, Tỉnh Bắc Giang, Việt Nam

1 vé hoạt động

Tổng tiền	30.000 đ
-----------	----------

PLATFORM	3.000 đ
VAT	3.300 đ

Phải thanh toán	36.300 đ
-----------------	----------

Lịch trình

20 tháng 4, 2023

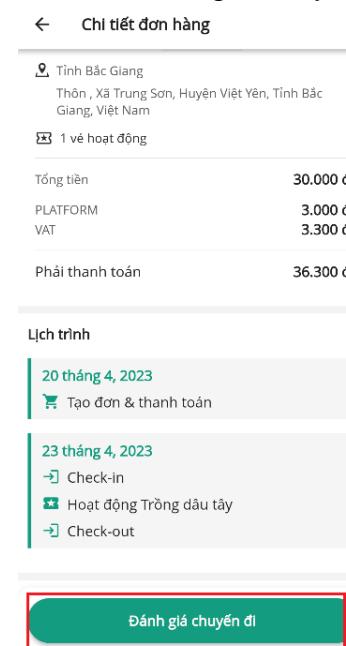
Tạo đơn & thanh toán

23 tháng 4, 2023

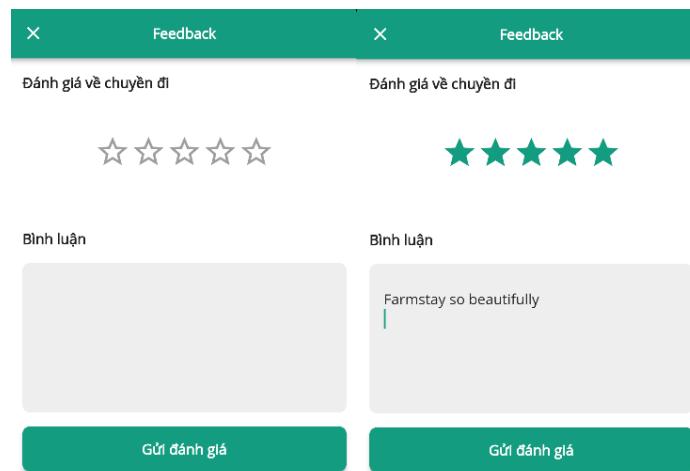
- Check-in
- Hoạt động Trồng dâu tây
- Check-out

Đánh giá chuyến đi

Step 2: The customer presses on “Đánh giá chuyến đi” button in booking detail screen



Step 2: The “Feedback” screen is displayed. The customer presses on the rating and leaves feedback.



Step 3: Press on “Gửi đánh giá” button. Feedback has been created successfully and displayed on the booking detail page

The left screenshot shows the 'Chi tiết đơn hàng' (Order Details) page for a trip from Bắc Giang to La Ferme Du Colvert Resort & Spa. It lists the total amount (36,300đ), platform fee (3,000đ), and VAT (3,300đ). The right screenshot shows the same order details for the same trip. A red box highlights a review for 'Farmstay so beautifully' with a rating of 338 and 5 stars.

Tổng tiền	30.000 đ
PLATFORM	3.000 đ
VAT	3.300 đ
Phải thanh toán	36.300 đ

Tổng tiền	30.000 đ
PLATFORM	3.000 đ
VAT	3.300 đ
Phải thanh toán	36.300 đ

3.4.14 <Customer> View notification

Step 1: The customer presses on “Thông báo” icon in navigation tab

The screenshot shows a mobile application interface. At the top, there is a search bar and a navigation bar with tabs for 'GỢI Ý CHO BẠN' and 'TOP'. Below the navigation bar, there is a large image of a yellow building with pink flowers. Underneath the image, it says 'Xóm Farmstay' and 'Chưa có đánh giá'. There is also a location indicator 'Tỉnh Yên Bái'. Below this section, there is another image of a white building surrounded by greenery, labeled 'La Ferme Du Colvert Resort & Spa' with a 4.6667 rating and 'Tỉnh Bắc Giang'.

Step 2: The notification screen is displayed



VII. References

Spring Boot: <https://spring.io/>

Opensearch: <https://opensearch.org/versions/opensearch-2-6-0.html>

Firebase: <https://firebase.google.com/>

Redis: <https://redis.io/docs/getting-started/installation/>

Flutter: <https://flutter.dev/>

Diagram: <https://sequencediagram.org/>

nb_utils: https://pub.dev/packages/nb_utils

cached_network_image: https://pub.dev/packages/cached_network_image

mobx: <https://pub.dev/packages/mobx>

flutter_mobx: https://pub.dev/packages/flutter_mobx

firebase_core: https://pub.dev/packages/firebase_core

firebase_auth: https://pub.dev/packages/firebase_auth

firebase_messaging: https://pub.dev/packages/firebase_messaging

fpdart: <https://pub.dev/packages/fpdart>

logger: <https://pub.dev/packages/logger>

google_sign_in: https://pub.dev/packages/google_sign_in
navigation_history_observer: https://pub.dev/packages/navigation_history_observer
flutter_native_splash: https://pub.dev/packages/flutter_native_splash
intl: <https://pub.dev/packages/intl>
shimmer: <https://pub.dev/packages/shimmer>
flutter_vector_icons: https://pub.dev/packages/flutter_vector_icons
syncfusion_flutter_datepicker: https://pub.dev/packages/syncfusion_flutter_datepicker
url_launcher: https://pub.dev/packages/url_launcher
webview_flutter: https://pub.dev/packages/webview_flutter
shared_preferences: https://pub.dev/packages/shared_preferences
timeago: <https://pub.dev/packages/timeago>
date_time_picker: https://pub.dev/packages/date_time_picker
image_picker: https://pub.dev/packages/image_picker
overlay_support: https://pub.dev/packages/overlay_support
flutter_launcher_icons: https://pub.dev/packages/flutter_launcher_icons