

**FSTAY**

Homestay Management System

START

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Fstay **Team**

****Instructor

Nguyễn Văn Sang



Team Leader

Phạm Minh Dương

Team Member Lý Văn Thiên

Team Member Võ Đại Dương Phi

Team Member Trần Đức Anh

Team Member Phạm Mạnh Đạt

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**I. Introduction**

**Background**

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**Background**

****Book Homestay

**Proposed** idea





System **Scope**

**- Renter can search, view homestay details, booking homestay, pay in , and manage their orders.**

**- Owner can create the homestay, withdraw, manage the homestay and orders.**

**- Chat function between owner and renter**

**- Admin will decentralize to manage renter, owner, homestay and other functions of the Fstay system such as promotions, utilities, commission fees,….**

Out of **Scope**

**Renter-Owner Module:**

**- Payment option limited (only by wallet) because of lack knowledge ( Momo, Paypal,...).**

**- Not yet built an algorithm to suggest homestay prices for owners. - Not zoning the homestay in each area on the map because of lack data. - The mobile UI is not available.**

**Admin Module:**

**- Some features have not completed because of time (notifications, chat..) - Functions not in real-time.**

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**II.**

**Project**

**Management Plan**

Software Process **Model**

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Project **Lifecycle**

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Team Organization **Structure**

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Instructor

Nguyễn Văn Sang



Project Manager

Phạm Minh Dương



Technical Leader

Lý Văn Thiên Front-end Designer

Test Leader

Trần Đức Anh Business Analysis Leader

Võ Đại Dương Phi

Phạm Minh Dương

Phạm Minh Dương Phạm Mạnh Đạt Lý Văn Thiên Phạm Mạnh Đạt Phạm Minh Dương Lý Văn Thiên

Project **Schedule**

Project **Tools**

Diagram Design UI Code Management Document IDE

Task Management 

Communication **Management**

**Time Communication**

8 AM - 12 AM 

4 - 5 days a week

**Instructor meeting** Once a week meeting

Risk **Management**

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**III.**

**Software**

**Requirement Specification**

Functional Specification - **Actor**

**Fstay Customers Fstay Admins**

**Renter**

**Owner Fstay Manager Fstay Administrator Fstay Staff**

Functional Specification - **User Characteristics Renter Owner Fstay Manager Fstay Administrator Fstay Staff**

Browse to search, view details and book homestay. Review/report booked homestay.

Add homestay to list

Create homestay for renting.

Manage created

homestay.

Manage booked order.

Manage macro function.

Manage Fstay staff.

Approve homestay to be active.

Change customer’s wallet. Manage owners.

Manage promotions and

Manage renters. Manage utilities.

favourite.

Request to withdraw cash.

commission fees.

Functional Specification - **Use case Diagram** Renter & Owner Module 

**Total : 38 use cases (6 use case groups)**

**- UC01: Account Management (10 UC)**

**- UC02: Renter – Homestay Management**

**(9 UC)**

**- UC03: Renter – Order Management**

**(6 UC)**

**- UC04: Owner – Account Management**

**(4 UC)**

**- UC05: Owner – Homestay Management**

**(6 UC)**

**- UC06: Owner – Order Management**

**(3 UC)**

Functional Specification - **Use case Diagram**Admin Module 

**Total : 34 use cases (8 use case groups)**

**- UC07: Admin - Common Management (9 UC)**

**- UC08: Admin - Renter Management (3 UC)**

**- UC09: Admin - Owner Management (3 UC)**

**- UC10: Admin - Homestay Management (4 UC)**

**- UC11: Admin - Promotion Management (3 UC)**

**- UC12: Admin - Utility Management (3 UC)**

**- UC13: Admin - Commission Fee Management**

**(4 UC)**

**- UC14: Admin - Staff Management (5 UC)**

Functional Specification - **Essential Use cases** Renter & Owner Module

**UC01 Account Management Renter-Homestay Management Renter-Order Management UC02 UC03**

**01: Register**

**02: Login**

**03: Logout**

**04: Forget password**

**05: Change password**

**06: View personal information 07: Update personal information 08: View list transaction’s history 09: View notifications**

**10: Chat**

**Owner-Account**

**01: View homepage**

**02: Search homestay**

**03: View list homestay**

**04: View homestay details 05: Review homestay**

**06: Report homestay**

**07: Add favourite homestay 08: View list favourite homestay 09: Delete favourite homestay**

**01: Book homestay**

**02: View list order’s history 03: View order details 04: Cancel executing order 05: Pay in**

**06: View list pay in history**

**ManagementOwner-Homestay Management Owner-Order Management UC04 UC05 UC06**

**01: Verify owner’s identification 02: View dashboard**

**03: Withdraw cash**

**04: View list withdraw cash’s history**

**01: Add new homestay**

**02: View list owner’s homestay 03: View owner’s homestay details 04: Update homestay’s information 05: Update homestay’s status 06: Add discount**

**01: Verify list order**

**02: View order details 03: Cancel executing order**

Functional Specification - **Essential Use cases**Admin Module

**UC07 Admin-Common Management Admin-Renter Management Admin-Owner Management UC08 UC09**

**01: Login**

**02: Logout**

**03: Forget password 04: Change password 05:View dashboard**

**01: View list renter**

**02: View renter’s information 03: Change renter’s status**

**Admin-Homestay**

**01: View list owner**

**02: View owner’s information 03: Change owner’s status**

**Admin-Promotion**

**06: Change customer’s wallet 07: View transaction**

**Management UC10 UC11 Management**

**UC12**

**08: View personal information 09: Update personal information**

**Admin-Utility Management**

**01: View list utility**

**02: Add new utility**

**03: Delete utility**

**01: View list homestay**

**02: View homestay details**

**03: Approve homestay**

**04: Change homestay’s status**

**Admin-Commission**

**Fee Management UC13**

**01: View list commission fee**

**02: Add new commission fee**

**03: Update commission fee**

**04: Delete commission fee**

**01: View list promotion**

**02: Add new promotion**

**03: Change promotion’s status**

**UC14 Admin-Staff Management**

**01: View list staff**

**02: Add new staff**

**03: Add staff’s information**

**04: Change staff’s position**

**05: Change staff’s status**

Functional Specification - **User Roles**

|  |
| --- |
| **UC No.** |
| UC01-01 |
| UC01-02 |
| UC01-03 |
| UC01-04 |
| UC01-05 |
| UC01-06 |
| UC01-07 |

**Function Renter Owner** Register x x Login x x Logout x x Forget password x x Change password x x View personal information x x Update personal information x x

**UC No. Function Renter Owner** UC03-01 Book homestay x UC03-02 View list order’s history x UC03-03 View order details x UC03-04 Cancel executing order x UC03-05 Pay in x UC03-06 View list pay in history x UC04-01 Verify owner’s identification x

UC01-08 View list transaction’s history x x UC01-09 View notifications x x UC01-10 Chat x x UC02-01 View homepage x

UC02-02 Search homestay x UC02-03 View list homestay x UC02-04 View homestay details x UC02-05 Review homestay x UC02-06 Report homestay x UC02-07 Add favorite homestay x UC02-08 View list favourite homestay x UC02-09 Delete favourite homestay x

UC04-02 View dashboard x UC04-03 Withdraw cash x UC04-04 View list withdraw cash’s history x UC05-01 Add new homestay x UC05-02 View list owner’s homestay x UC05-03 View owner’s homestay details x UC05-04 Update homestay’s information x UC05-05 Update homestay’s status x UC05-06 Add discount x UC06-01 View list order x UC06-02 View order details x UC06-03 Cancel executing order x

Functional Specification - **User Roles**

|  |
| --- |
| **UC No.** |
| UC07-01 |
| UC07-02 |
| UC07-03 |
| UC07-04 |
| UC07-05 |

**Function Fstay Manager Fstay Administrator Fstay Staff** Login x x x Logout x x x Forget password x x x View personal information x x x Update personal information x x x

UC07-06 Change password x x x UC07-07 View transaction x x x UC07-08 View dashboard x x x UC07-09 Change customer’s wallet x x UC08-01 View list renter x x x UC08-02 View renter’s information details x UC08-03 Change renter’s status x UC09-01 View list owner x x x UC09-02 View owner’s information details x

UC09-03 Change owner’s status x

Functional Specification - **User Roles**

|  |
| --- |
| **UC No.** |
| UC10-01 |
| UC10-02 |
| UC10-03 |
| UC10-04 |
| UC11-01 |
| UC11-02 |

**Function Fstay Manager Fstay Administrator Fstay Staff** View list homestay x x x View homestay details x x Approve homestay x

Change homestay’s status x

View list promotion x x x Add new promotion x

UC11-03 Change promotion’s status x UC12-01 View list utility x x x UC12-02 Add new utility x UC12-03 Delete utility x UC13-01 View list commission fee x x x UC13-02 Add new commission fee x x UC13-03 Update commission fee x x UC13-04 Delete commission fee x x UC14-01 View list staff x

UC14-01 View staff’s information details x

UC14-01 Add new staff x

UC14-01 Change staff’s position x

UC14-01 Change staff’s status x

Non-functional Specification

**Availability Performance Usability**

**Available 24 hours a day, 7 days a week.**

**Maximum response time for displaying smaller than 3 seconds.**

**Waiting time of process function from 2 to 5**

**seconds.**

**User interface is clear and easy to use. Admin page display with many tables to manage easier.**

**Security Maintainability**

**User’s information is protected. Password hashing by Bcrypt algorithm.**

**Coding standards and naming convention to easily maintain.**

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**IV.**

**Software DesignDescription** 

Architecture Design - **System Overview**

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Architecture Design - **Technologies and Software**

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Architecture Design - **Implementation View**

**Database** Design



Detailed Design - **Screen Design**

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Detailed Design - **Class Diagram**

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Detailed Design **Sequence** 

**Diagram**

Detailed Design **Sequence** 

**Diagram**

Detailed Design **Sequence** 

**Diagram**

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**Software Testing V.**

**Testing** Model



**Testing** Process



**Testing** Tool & Environment

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Name Detail

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**Total** Test Case

Ø **Scope of testing**

O Unit testing.

O Integration testing.

O System testing.

Ø **Type of testing**

O User interface testing (GUI testing). O Functional testing.

**System** Test Sample





**VI. Lesson Learned**

Lesson **Learned**

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**VII. Demo + Q&A**

**THANK YOU FOR LISTENING**