

**PROJECT REPORT**

# Sales System

|  |  |
| --- | --- |
| **Semester:** | Programming Fundamentals |
| **Class:** | PF1117 |
| **Group:** | Double Chicken |
| **Instructor** | Nguyễn Đình Cường |
| **Team members:** | Vũ Bình An  Nguyễn Trung Lâm |

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# Project introduction

1. Briefly describe the operation of the system to which the project will be applied

* Store data about products, invoices. Support flexible calculation, check quantity, save time for users
* Fast data update

1. Proposed System

...

1. The scope of the project to be applied

* chicken farm

1. System Name

* chicken farm management

1. Deployment Environment

* PC, Laptop
* Windows 10, Linux, MacOS

1. Development Tools

* Visual Studio Code
* MySql Sever 8.0: Data saving
* Draw.io: Draw system design diagram
* Microsoft Word: Write a report

1. Customer Requirements

(System features)

* Chicken managerment
* Cage managerment

# Analyze System Requirements

## Use Case Diagram



|  |  |
| --- | --- |
| Name | Login |
| ID |  |
| Description | User login to the system |
| Actor | Employee |
| Organizational  Benefits | Log in to the system |
| Frequency of Use | Every time you use the system. |
| Triggers | User wants to login to the application. |
| Preconditions | - User accounts already created |
| Postconditions | - User successfully login to the application  - The system records successful login activity |
| Main Courses | 1. User enter account name, password  2. Check account information  3. Show main menu. |
| Alternate Courses | AC1.1 User enters wrong account password   1. The system notifies the wrong account or password 2. Show the login screen again 3. Re-enter request   AC2.2 Username password   1. Show successful login message 2. Show main menu |
| Exception | EX1.1 Invalid user name/password   1. Display re-entry message 2. Re-enter   EX2.1: Lost database connection   1. Show server connection lost message 2. Return to the login screen |

|  |  |
| --- | --- |
| Name | Add new chicken |
| ID |  |
| Description | Add new chickens |
| Actor | Employee |
| Organizational  Benefits | Add new chicken information |
| Triggers | whenever you want to add a new information chicken |
| Preconditions | - Logged in to the system |
| Postconditions | - success message if id or name entered does not exist  - failed message if id or name already exists |
| Main Courses | 1. Employee login to the system  2. Employee choice “Chicken managerment”  3. Employee choice “Add new chicken”  4. Employee input infor chicken  5. Display “Add new chicken completed” |
| Alternate Courses | AC1.1 id or name already exists  2 display the message “id or name already exists”  3 Back to feature “Chicken Managerment” |
| Exception | EX1.1: lost connection to database  2. display message “disconnection to database”  3. Back to feature “Chicken Managerment” |

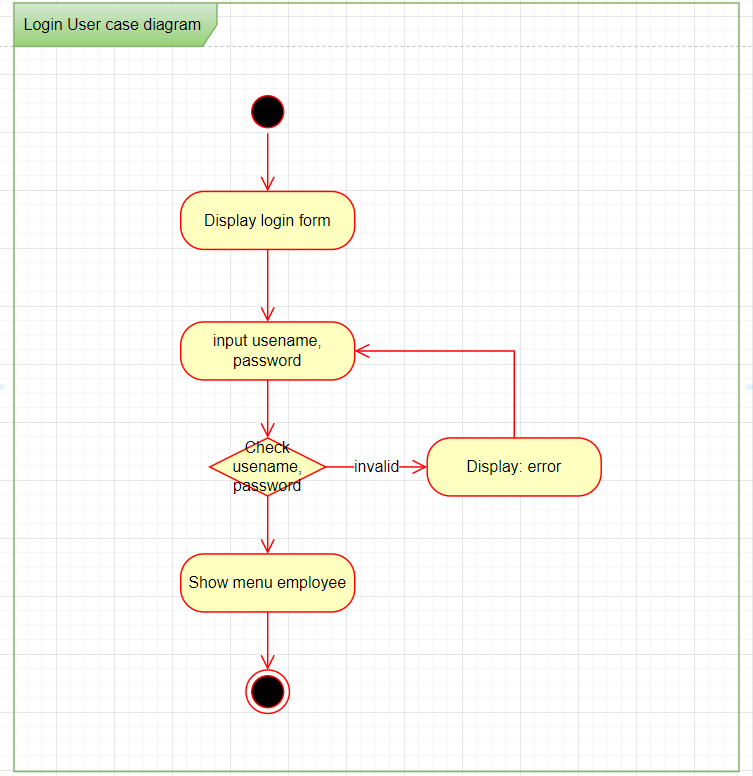
|  |  |
| --- | --- |
| Name | SearchByID |
| ID |  |
| Description | Find chickens by ID |
| Actor | Employee |
| Organizational  Benefits | Shorten chicken search time |
| Triggers | Search for a chicken when the chicken id is known |
| Preconditions | - Logged in to the system |
| Postconditions | - Return chicken if found  - "Not Found" message if the chicken is not found |
| Main Courses | 1. Vendors log in to the system  2. The employee chooses the search section  3. Employee chooses "Search By ID"  4. Employee enters search chicken id  5. Show chicken details |
| Alternate Courses | AC4.1 No chickens found   1. Display the message "No chickens found" 2. Back to feature “Search By ID” |
| Exception | EX4.1 Lost database connection   1. Show “Lost database connection” 2. Back to feature “Search By ID”. |

|  |  |
| --- | --- |
| Name | SearchByName |
| ID |  |
| Description | Chicken search by chicken name |
| Actor | Employee |
| Organizational  Benefits | Search list of chickens by name. |
| Triggers | Chicken search when know name |
| Preconditions | - Logged into the system |
| Postconditions | - Show list of chickens |
| Main Courses | 1. Vendors log in to the system  2. The employee chooses the search section  3. Employee chooses "Search By Name"  4. Employee enters search chicken name  5. Show chicken list. |
| Alternate Courses | AC4.1 No chickens found   1. Display the message "No chickens found" 2. Back to feature “Search By Name” |
| Exception | EX4.1 Lost database connection   1. Show “Lost database connection” 2. Back to feature “Search By Name”. |

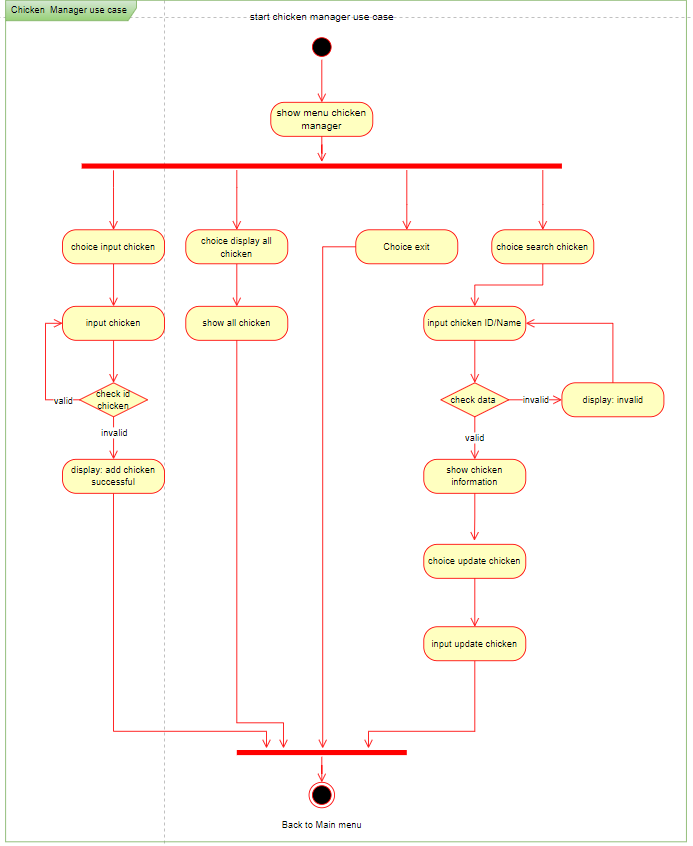
|  |  |
| --- | --- |
| Name | SearchByStatus |
| ID |  |
| Description | Chicken search by chicken status |
| Actor | Employee |
| Organizational  Benefits | Search list of chickens by Status. |
| Triggers | Chicken search when know status |
| Preconditions | - Logged into the system |
| Postconditions | - Show list of chickens |
| Main Courses | 1. Vendors log in to the system  2. The employee chooses the search section  3. Employee chooses "Search By Status"  4. Employee enters search chicken status  5. Show chicken list. |
| Alternate Courses | AC4.1 No chickens found   1. Display the message "No chickens found" 2. Back to feature “Search By Status” |
| Exception | EX4.1 Lost database connection   1. Show “Lost database connection” 2. Back to feature “Search By Name”. |

## Activity Diagram:

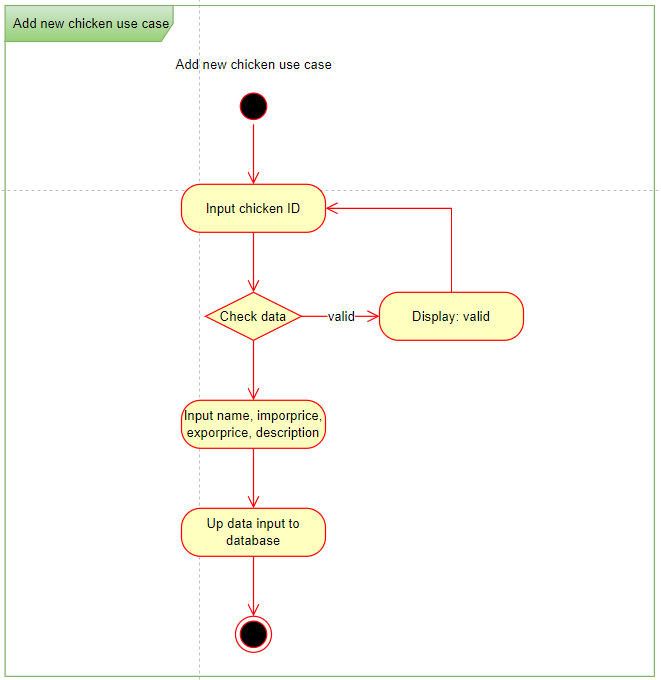
* Login



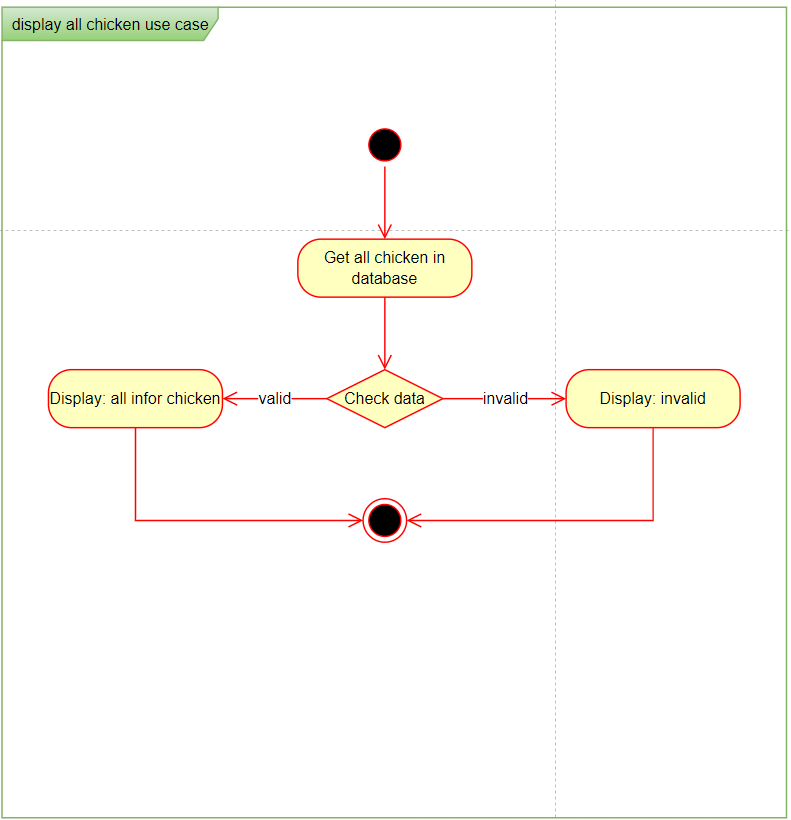
* Chicken management



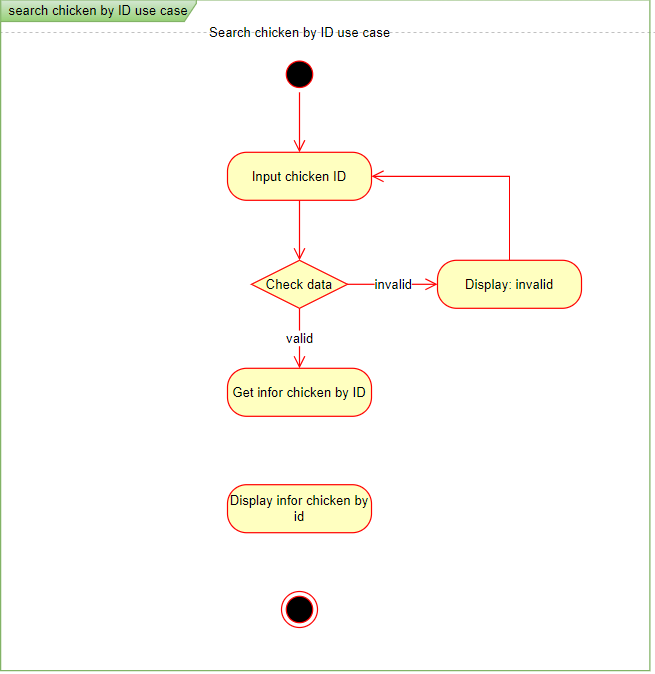
* Add chicken



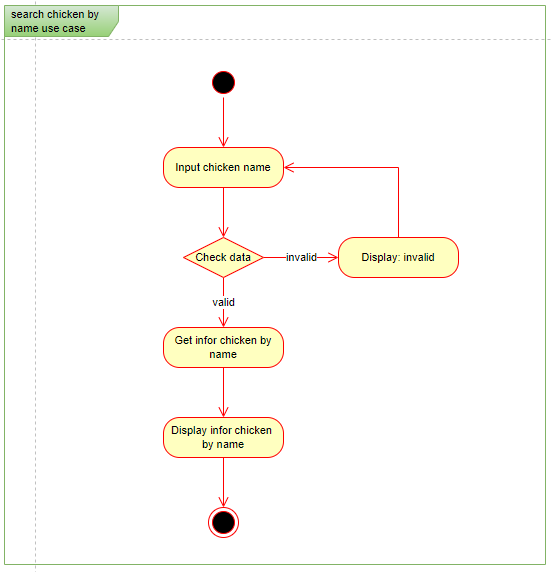
* Display all chicken



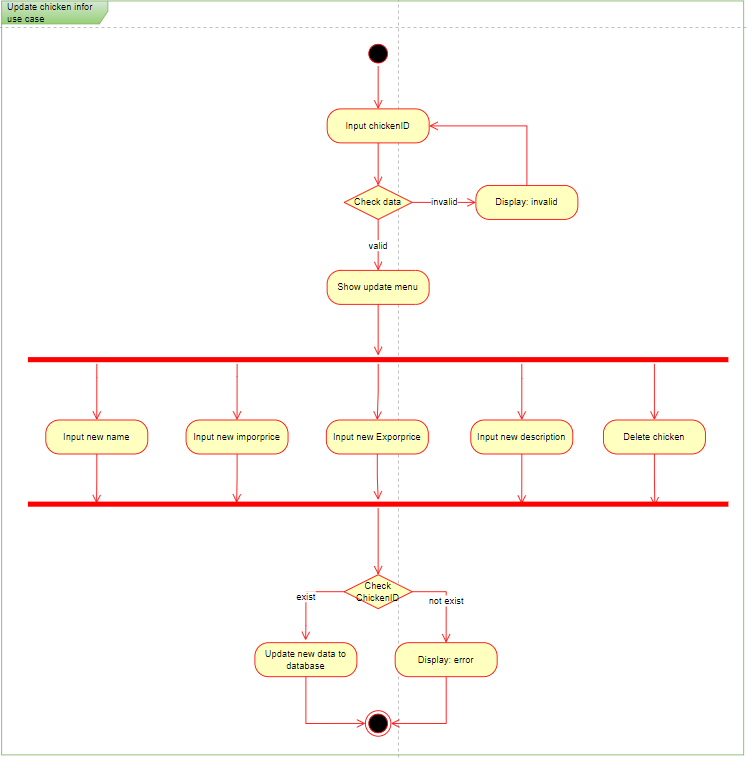
* Search chicken by id



* Search chicken by name



* Update infor chicken



# Design Details

1. UI Design
   * + Login



* + - Chicken manager



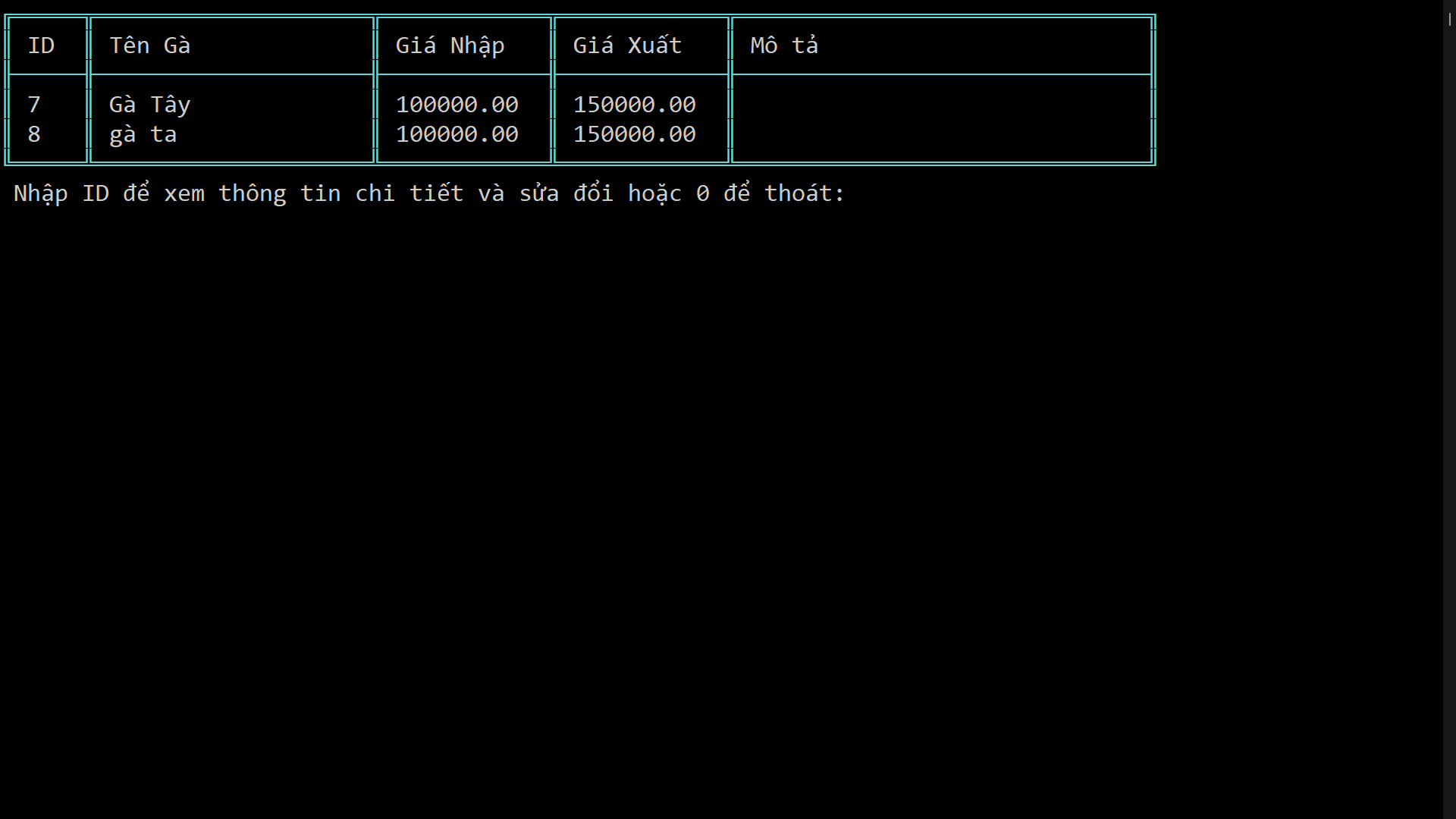
* + - Add new chicken



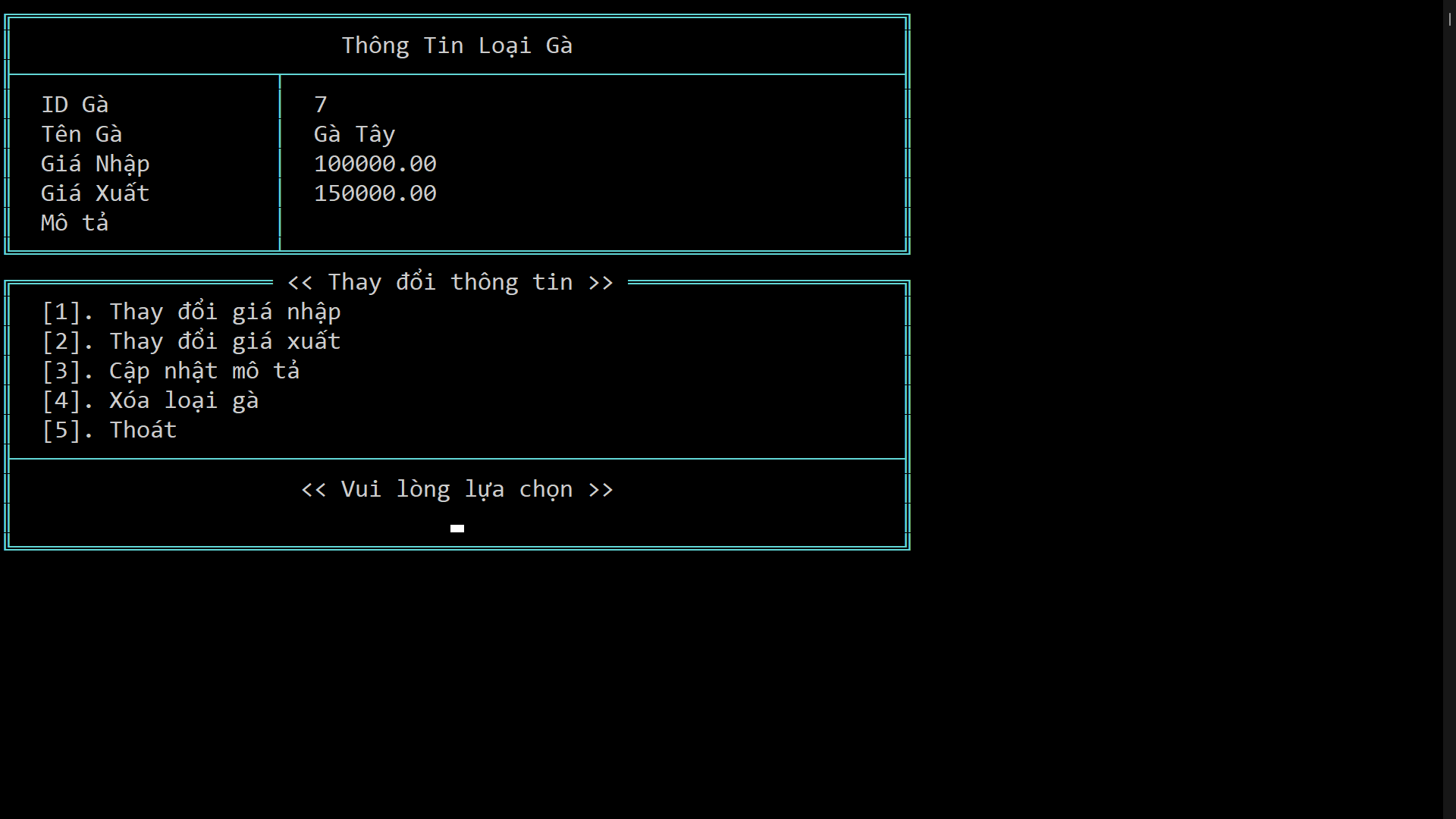
* + - Search chicken



* + - Display list chicken



* + - Display infor chicken

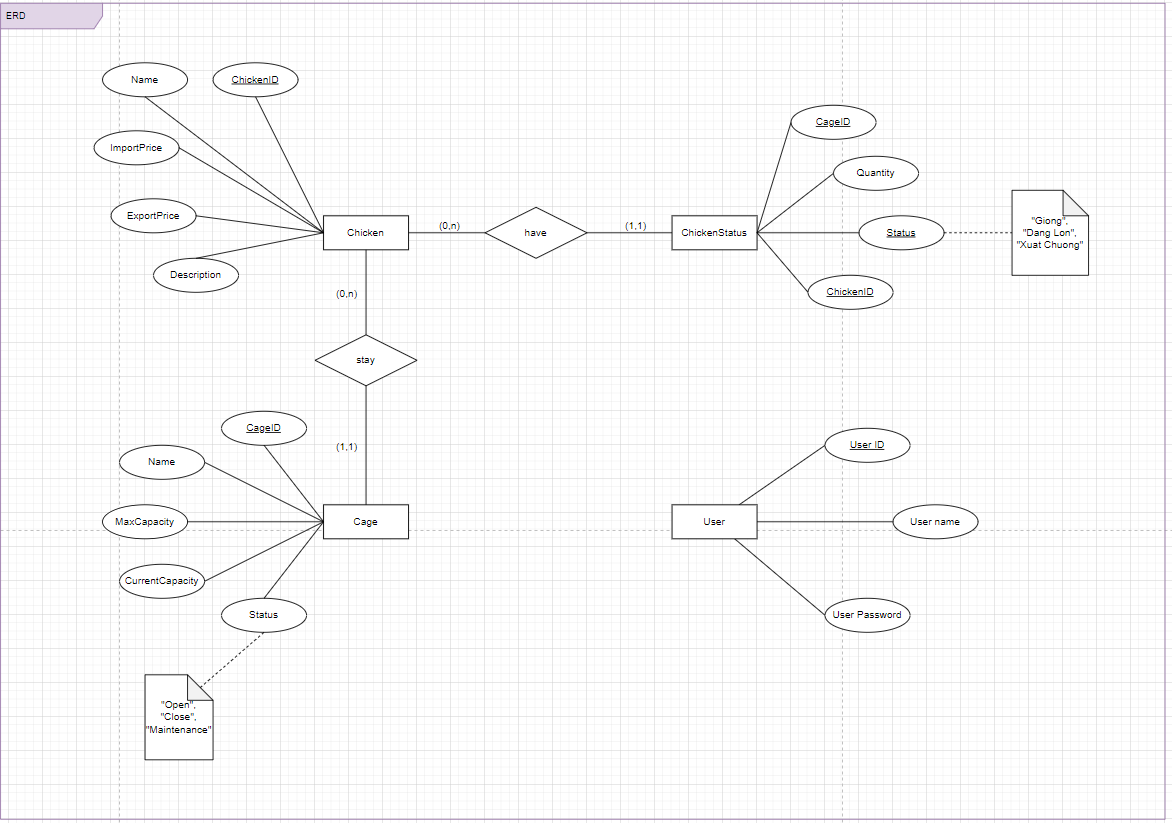


1. Code Design (Class Diagram
2. Sequence Diagram

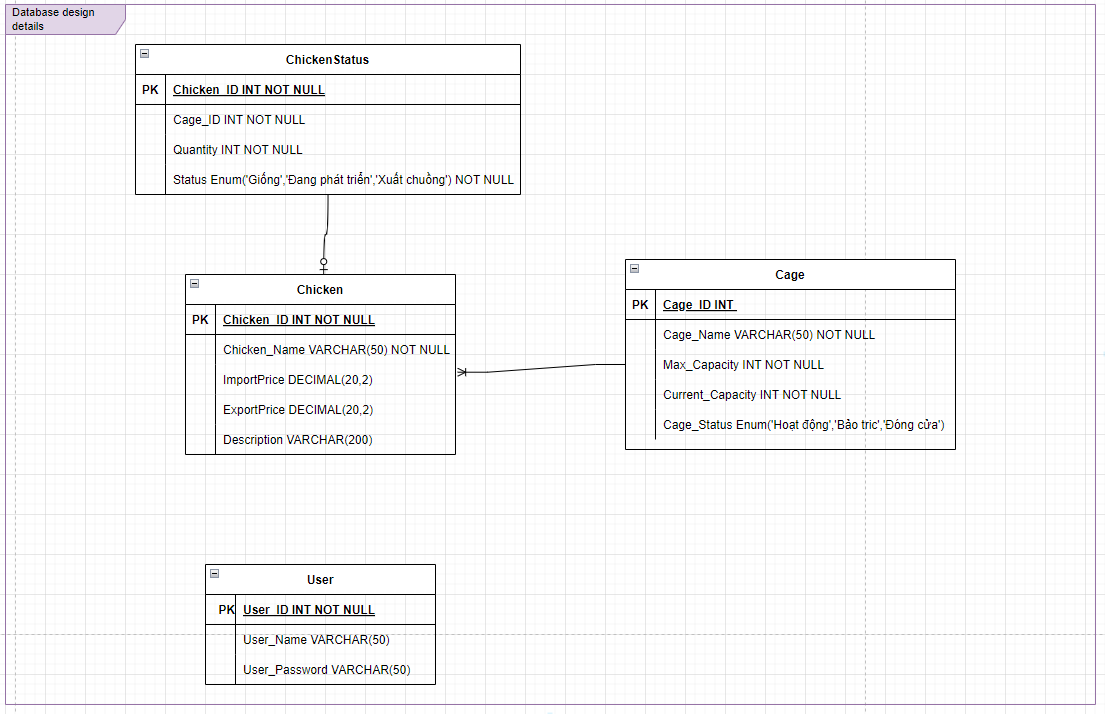
* Login
* Add new chicken
* Search chicken by id
* Search chicken by name
* Update chicken

1. Database Design

* Entity Relationship Diagram



* Database Design Details



|  |  |  |  |
| --- | --- | --- | --- |
| Chicken | | | |
| Column Name | Data Type | Constraints | Description |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Chicken Status | | | |
| Column Name | Data Type | Constraints | Description |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Cage | | | |
| Column Name | Data Type | Constraints | Description |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| User | | | |
| Column Name | Data Type | Constraints | Description |
|  |  |  |  |

# Test

|  |  |
| --- | --- |
| Test Case Number | 1.1 |
| Test Case Name | LoginTest |
| Test Case Description | This test case check user's password account |
| Preconditions | Already have an account |
| Test Case Input | Enter:  - User Name: Administrator   * Password: AdiminPF13 |
| Test Case Expected Output | Role = 1 |
| Test Case Steps | Step 1: Enter username and password  Step 2: Check database  Step 3: Return cashier with corresponding role |
|  |  |

# Task Assign (to each team member)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Analysis and design | | | | | |
| No | Task name | Description | Start Date | End Date | Member | Self assessment |
| 1 | Use-Case diagram | Design the main functions of the software | 05/08 | 08/08 | Vũ Bình An |  |
| 2 | User-Case diagram Description | Detailed description of the functions included in the software | 06/08 | 08/08 | Vũ Bình An |  |
| 3 | Activity diagram | design the main operations of the software | 08/08 | 10/08 | Vũ Bình An |  |
| 4 | Edit activity diagram | edit some operations in the software | 10/08 | 12/08 | Vũ Bình An |  |
|  | Database design | basic database design | 11/08 | 12/08 | Nguyễn Trung Lâm |  |
|  | Database coding | build database | 12/08 | 14/08 | Nguyễn Trung Lâm |  |
|  | UI design | Basic user interface design | 12/08 | 13/08 | Vũ Bình An Nguyễn Trung Lâm |  |
| 5 | Class diagram | design classes and functions in software | 12/80 | 14/08 | Vũ Bình An Nguyễn Trung Lâm |  |
| 6 | Sequence diagram | sequence diagram design | 14/08 |  | Nguyễn Trung Lâm |  |
| 7 | start coding | start up the basic function | 16/08 | 18/08 | Nguyễn Trung Lâm |  |

# Installation Instructions

1. Deployment Diagram
2. Installation steps
   * Database Install

- Go to the website and select the corresponding version: <https://dev.mysql.com/downloads/mysql/>

- Run the salessystem.sql file in the source file.

* + Server install
  + Application install

- Run file ConsoleApp.exe

# Appendix

Terms and abbreviations <if available>

<listing terms and abbreviations here>

References <if available >

<List of references here>

Some other issues <if available >

<Results, limitations, experiences, techniques, and other considerations when implementing a project>

# Document format

**Report corver:**

*The cover is printed in blue.*

*With the format as the first page of this document.*

**Paper Size:**

*The report is presented on A4 size paper (210 mm x 297 mm)*

**Top header**

*Left: Logo của VTC Academy*

*Right: Project Name*

*Font: Helvetica Neue (Light)*

*Font size: 12pt*

**Bottom header**

*Left: Class\_Name –Project\_Name*

*Right: Page\_Number*

*Font: Helvetica Neue (Light)*

*Font size: 12pt*

**Report Content:**

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*Font size: 12pt*

*Minimum 20 pages*

**Page margin (for A4 size paper)**

*Top: 20 - 25 mm;*

*Bottom: 20 - 25 mm;*

*Left: 30 - 35 mm;*

*Right: 15 - 20 mm;*