Software Requirements Specification

for

Foreign Worker Agency System

Version 1.0

Group No.: 2

 STUDENT NAME.   STUDENT ID

Date: 14/12/2015

Contents

Revisions

Version	Primary Author(s)	Description of Version	Date Completed
1.0	All members	Initial version of software requirements	14/12/2015

1 Project Management

1.1 Team Members

Name	Position	Actor
ABC BIN CDE	Team Leader	Worker
EFG A/L HIJ	Programming Leader	Company
KIM KLM NOP	Document Manager	Agency Staff
QRS STU	Quality Manager	Agency Manager

1.2 Project Plan

Our project is Foreign Worker Agency System which is an Application Software. We use suitable applications and tools which are Microsoft Word 2010, Microsoft Project 2010, Visual Paradigm Community Edition version 12.2, Microsoft Visual Basic 2012, XAMPP and Adobe CS5 to develop our project.

We follow the software process model which is Waterfall model to plan the process of our project. This process model are classic, sequential life cycle, and easy to implement. The phases in this process model are communication, planning, modeling, construction, and deployment. But a phase has to be complete before moving onto the next phase. The following Gantt chart shows the process in this project.

Our main users are foreign worker, company, agency staff and manager. All the users have their own role in the system.
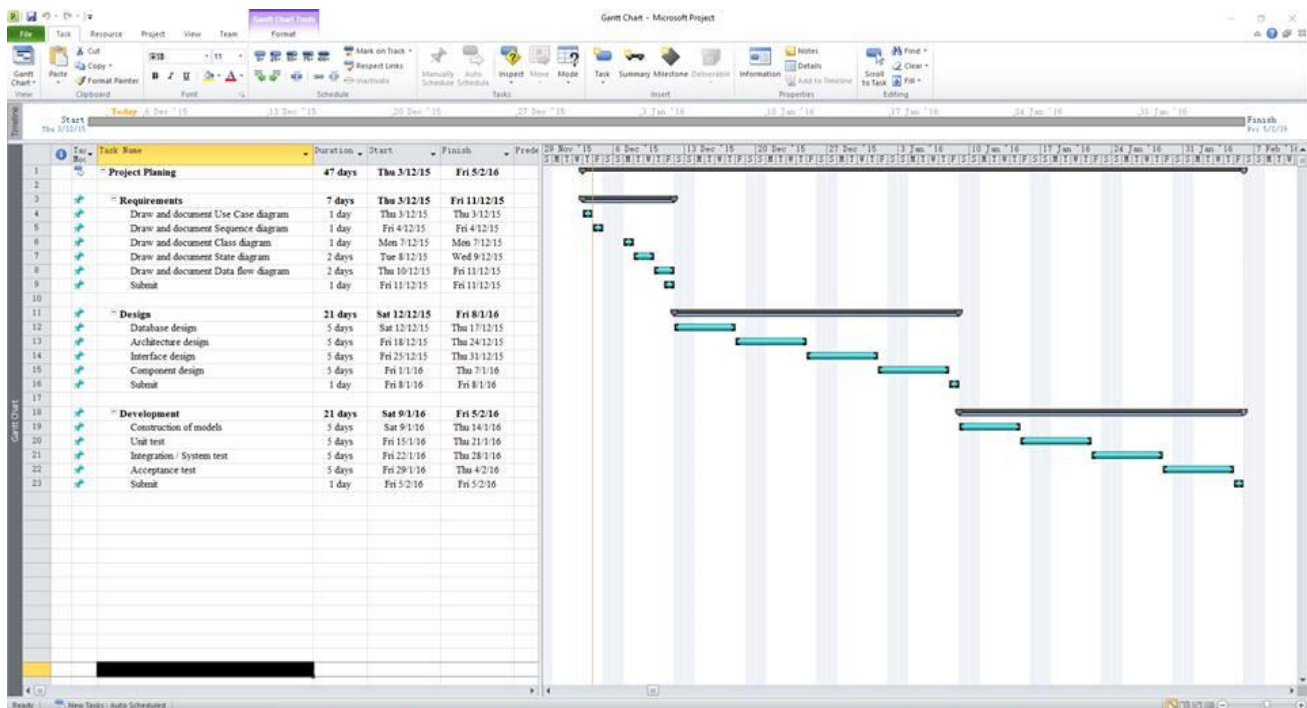
2 System Overview

2.1 Description

The system will allow worker to login by entering ID and password. After login success, worker can select some function in home page. Select view personal detail function, system will display their personal detail. In the view personal detail function, worker also can select edit function to update their personal detail. Select view working permit status function in the home page, system will display their working permit status detail.

The system will allow company to login by entering ID and password. After login success, company can add worker. Select view worker detail function, system will display the worker detail. In the worker detail screen, company can update and delete worker. Company also can apply permit for worker. Company also can go through check permit status function to view worker premit status, and also can renew the premit.

The system will allow agency staff to login by entering ID and password. After login success, staff can add company. System will display the company detail to let staff to view and update. System perform some function to let staff to help company to add their worker, view worker detail, check worker premit ,and renew the premit.

The system will allow agency manager to login by entering ID and password. After login success, manager can approve the premit for the worker. Manager also can view company and worker detail.

2.2 Actors

| Actor	Use Case
Worker	View Personal Detail
	Edit Personal Detail
	View Working Permit Status
Company	Apply Permit
	Insert Worker Detail
	Update Worker Detail
	Delete Worker Detail
	View Worker Detail
	Check Permit Status
	Renew Permit
Agency Staff	Add Company
	Add Worker
	Update Company Detail
	Update Worker Detail
	View Company Detail
	View Worker Detail
	Check Permit Status
	Renew Permit
Agency Manager	Approve Permit
	View Company Detail
	View Worker Detail

2.3 Assumptions and Dependencies

TO DO: Provide a short list of some major assumptions that might significantly affect your design. For example, you can assume that your client will have 1, 2 or at most 50 Automated Banking Machines. Every number has a significant effect on the design of your system.
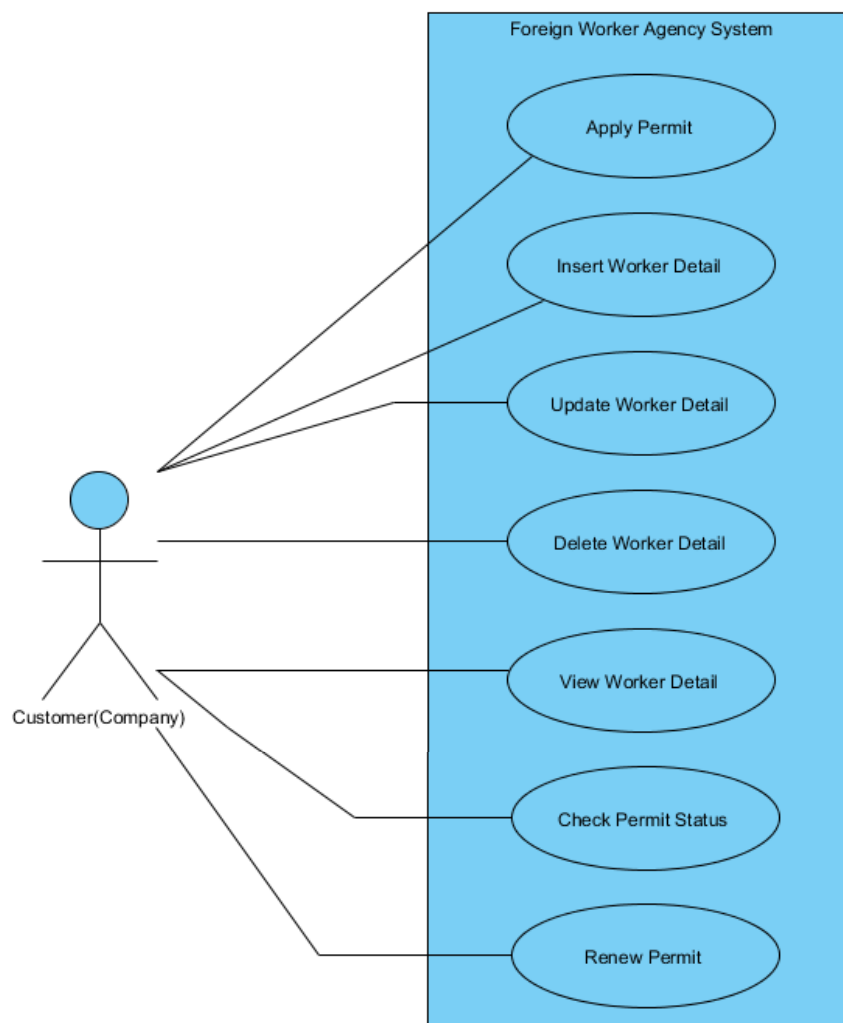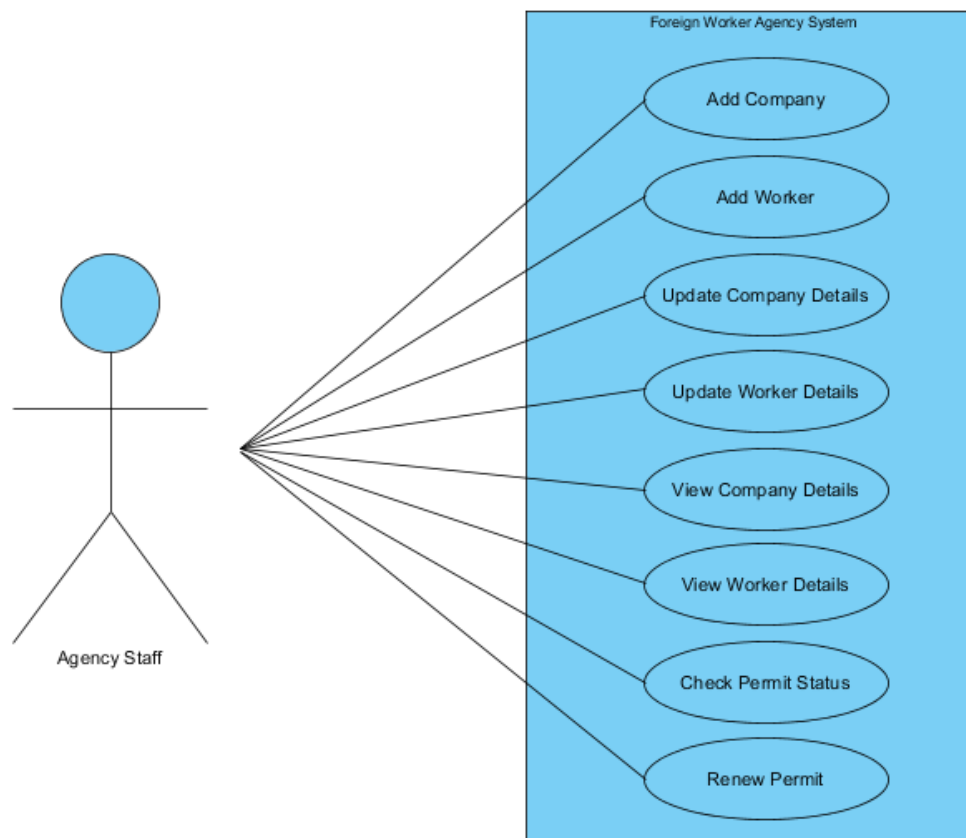
2.4 Use Case Diagram
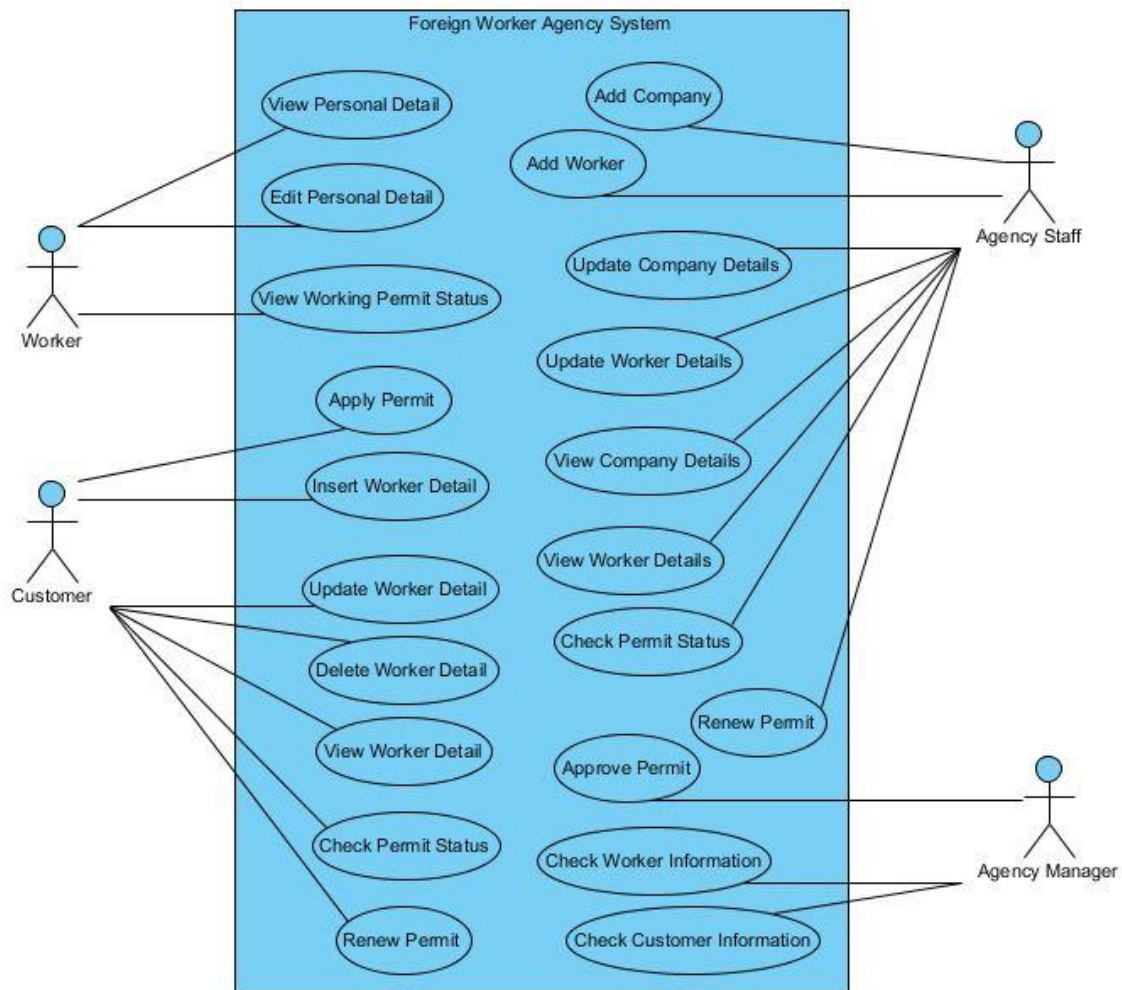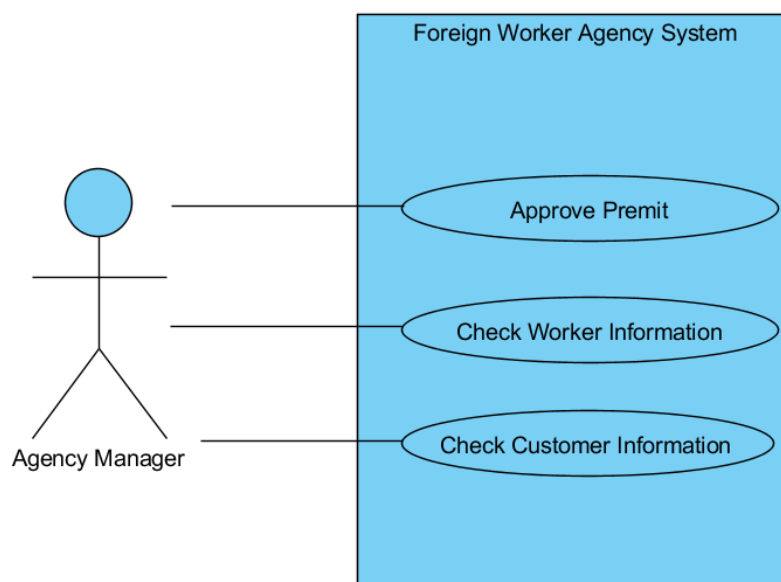
2.4.1 Worker Use Case Diagram
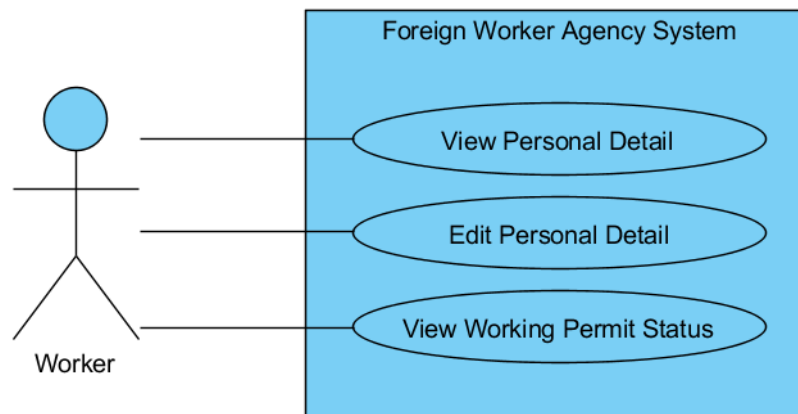
2.4.2 Customer Use Case Diagram

2.4.3 Agency Staff Use Case Diagram
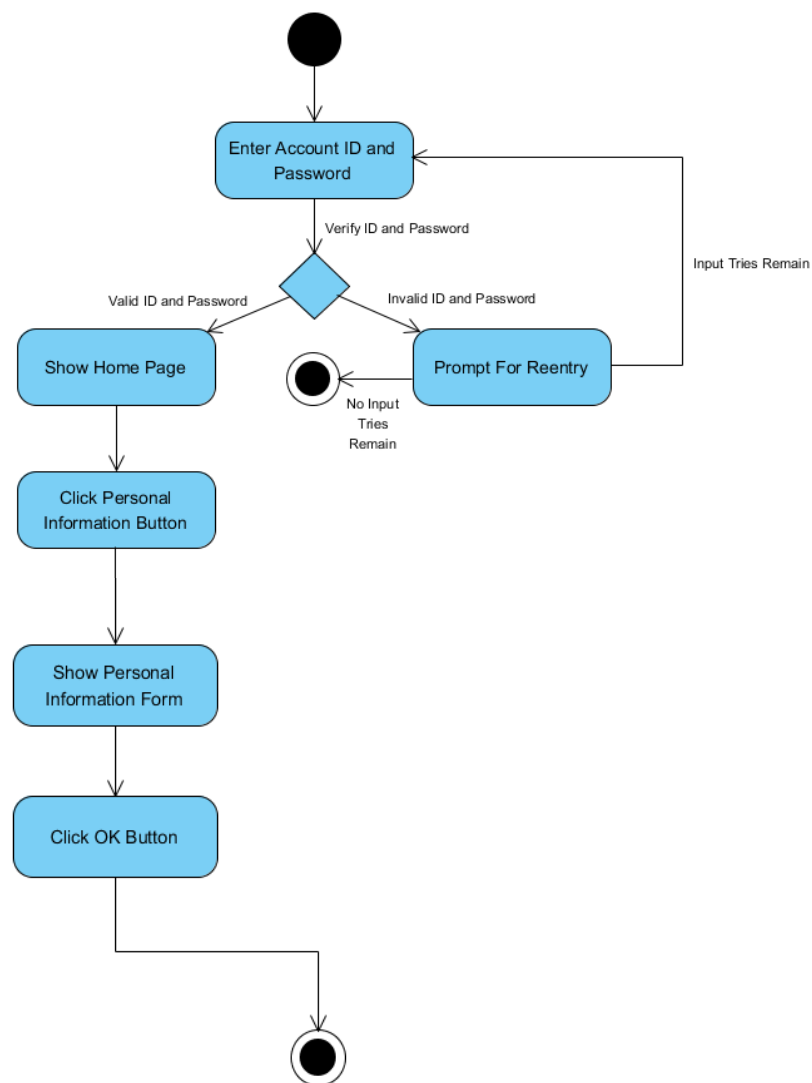

2.4.4 Agency Staff Use Case Diagram
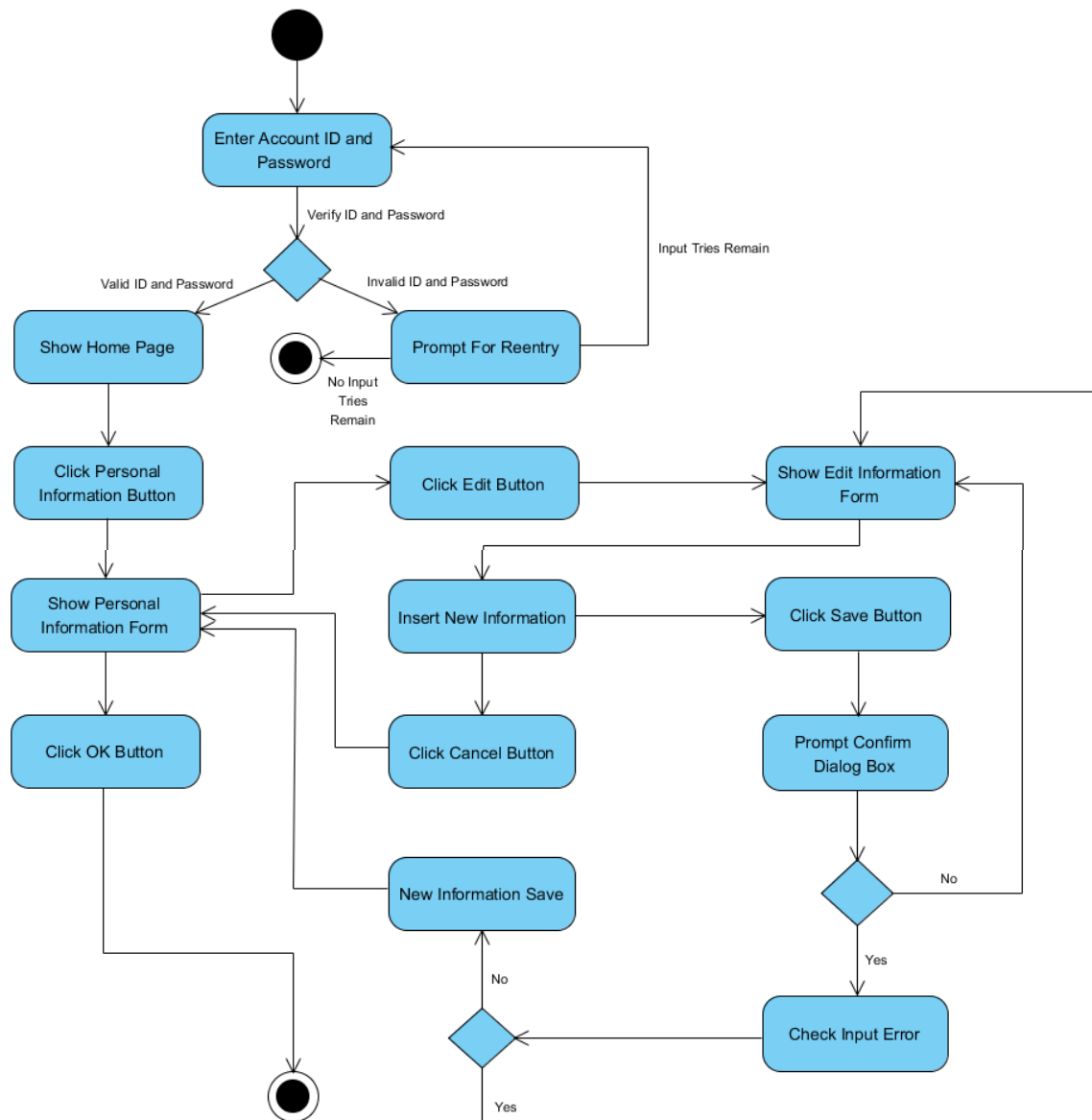
3 Basic Requirements

3.1 Worker

3.1.1 View Personal Detail

Worker will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Worker select view personal detail function to view their personal detail. System will retrieve data from database and display the data in the personal detail form.

3.1.2 Edit Personal Detail

Worker will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Worker select view personal detail function to view their personal detail. System will retrieve data from database and display the data in the personal detail form. Worker also can select edit personal detail function to update their personal detail. Worker can enter new personal detail and select save button to update. System will prompt confirm message, worker can either select yes or no. If yes ,then system will check the entered detail which cant not to be empty value and wrong input format. If no, then the system will back to the edit state. After checking, if no any input error, then system will update the record in the database.

3.1.3 View Working Permit Status

Worker will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Worker can select view working permit status function to view their working permit status. System will retrieve data from database and display the data in the working permit form.
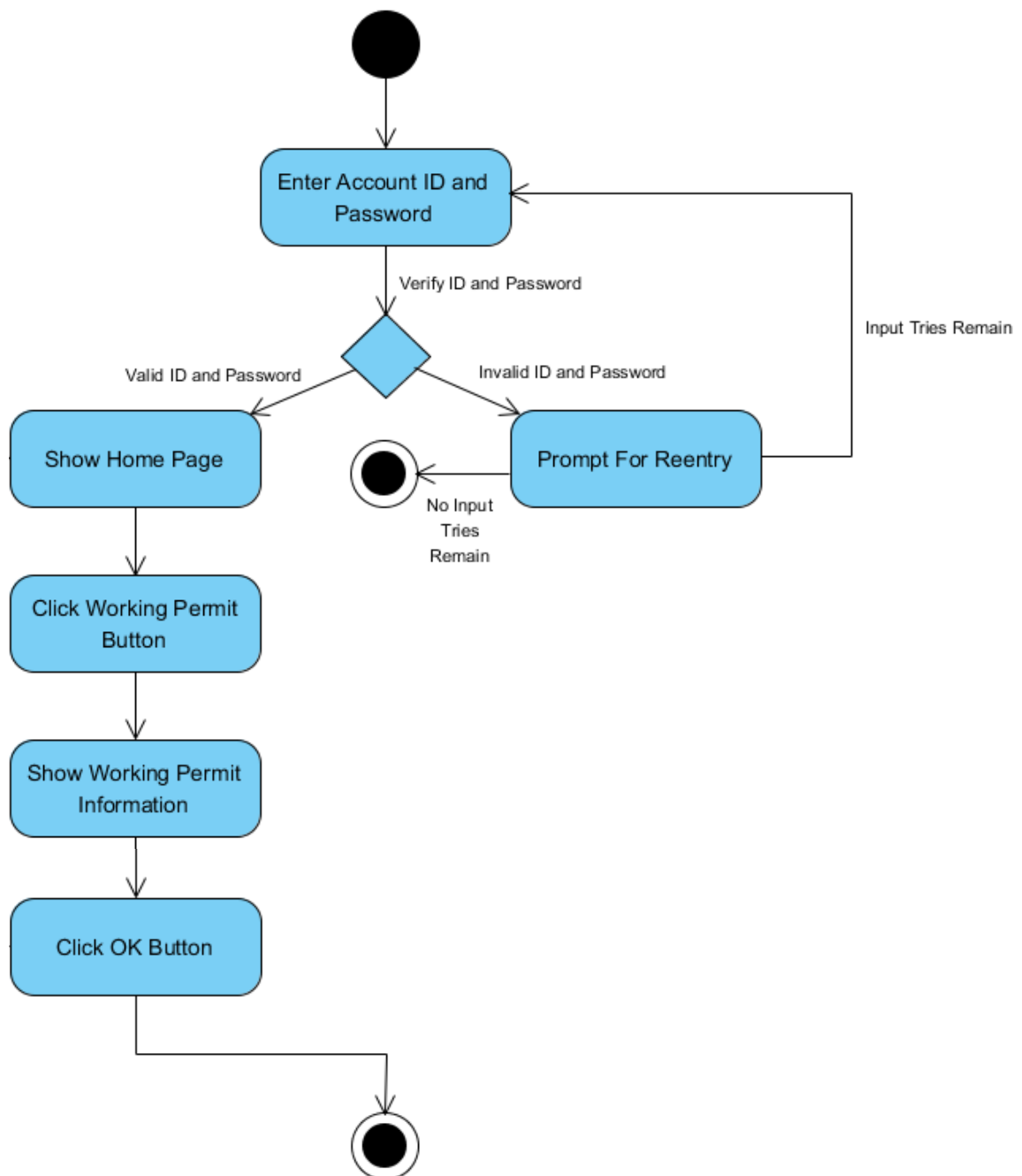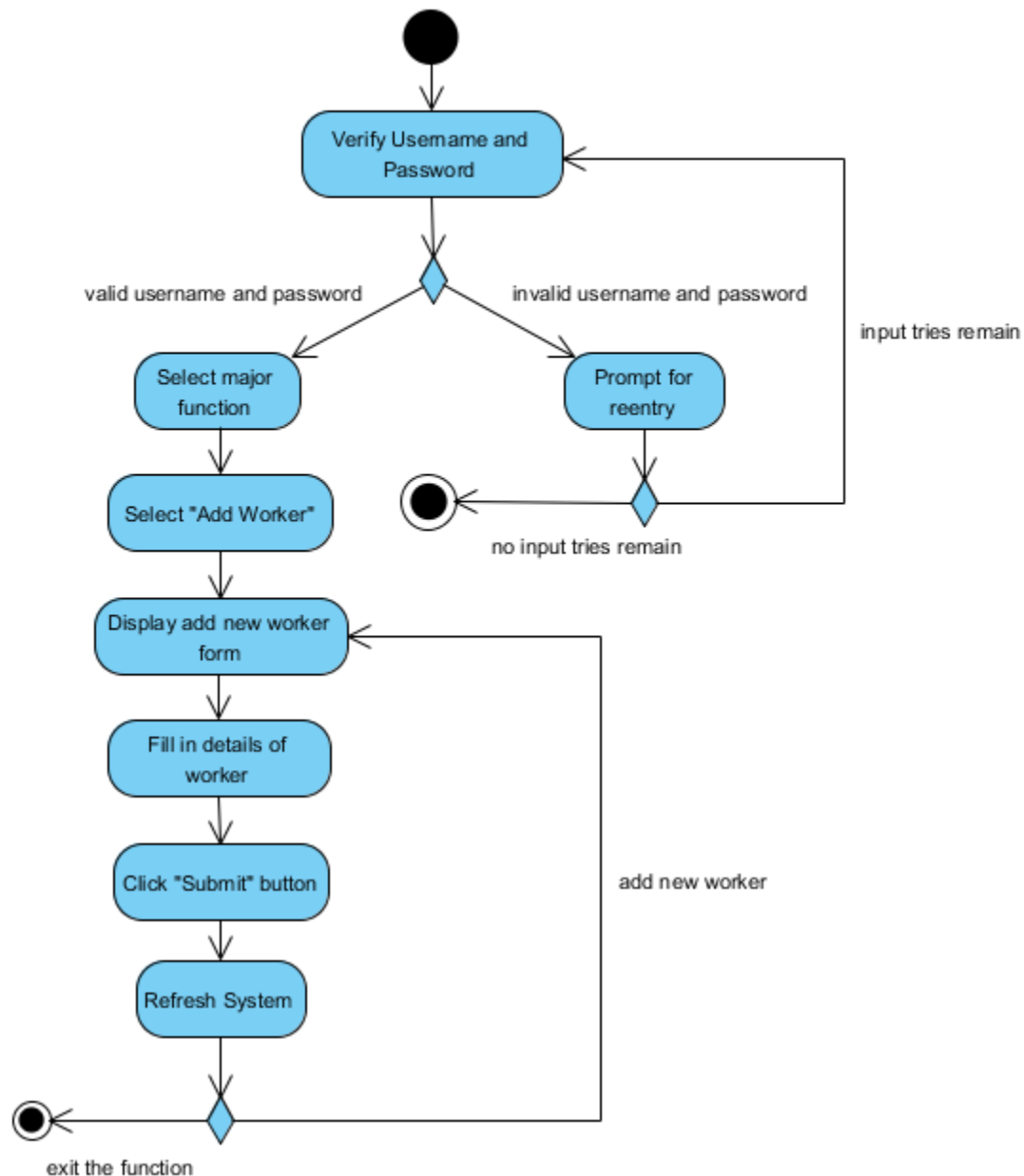
3.2 Customer (Company)

3.2.1 Apply Permit

Company will enter the username and password. System will retrieve data from database and comparing the username and password. If the username and password are not matching, system will return to login page. If the compare username and password is correct, system will show the home page. Company select the apply permit function that can help worker apply permit. System will retrieve the worker details from database and show in the worker permit form. Company fill in the worker's passport details and click the apply button. System insert the details into database and the permit status is pending.
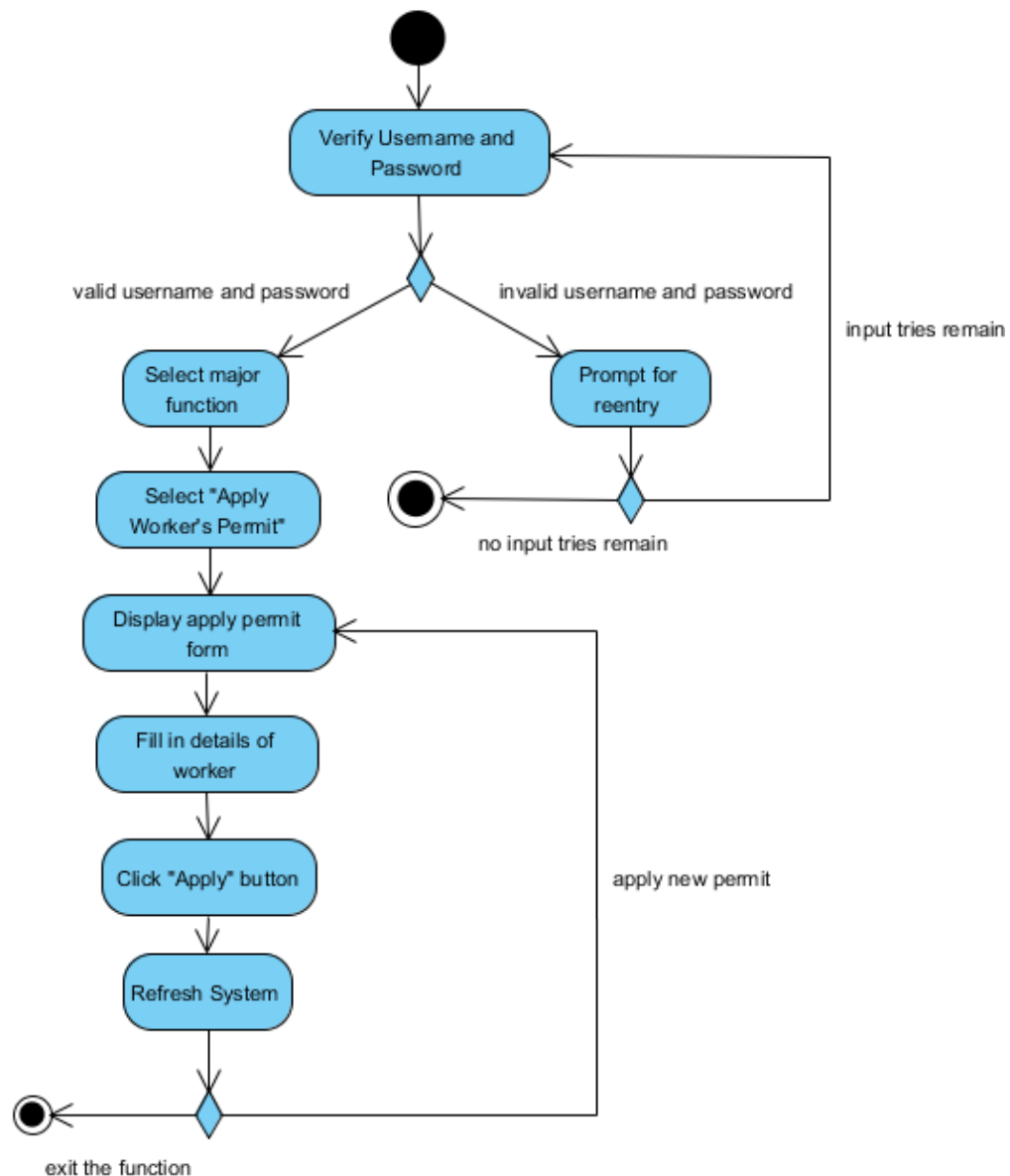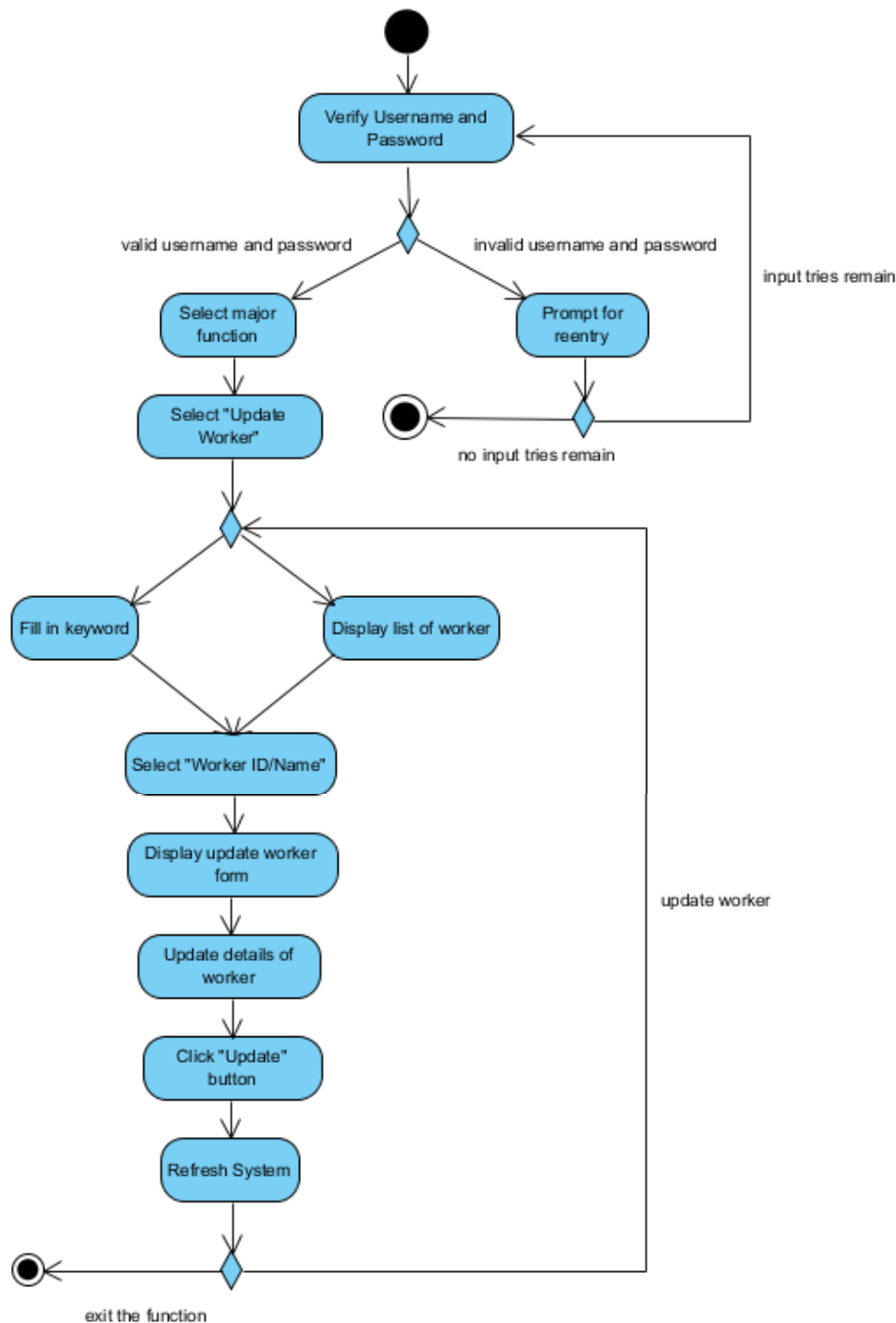
3.2.2 Insert Worker Detail

Company will enter the username and password. System will retrieve data from database and comparing the username and password. If the username and password are not matching, system will return to login page. If the compare username and password is correct, system will show the home page. Company select add worker detail function to add worker personal details into database and the system will detect that the worker is applied by the company just login.
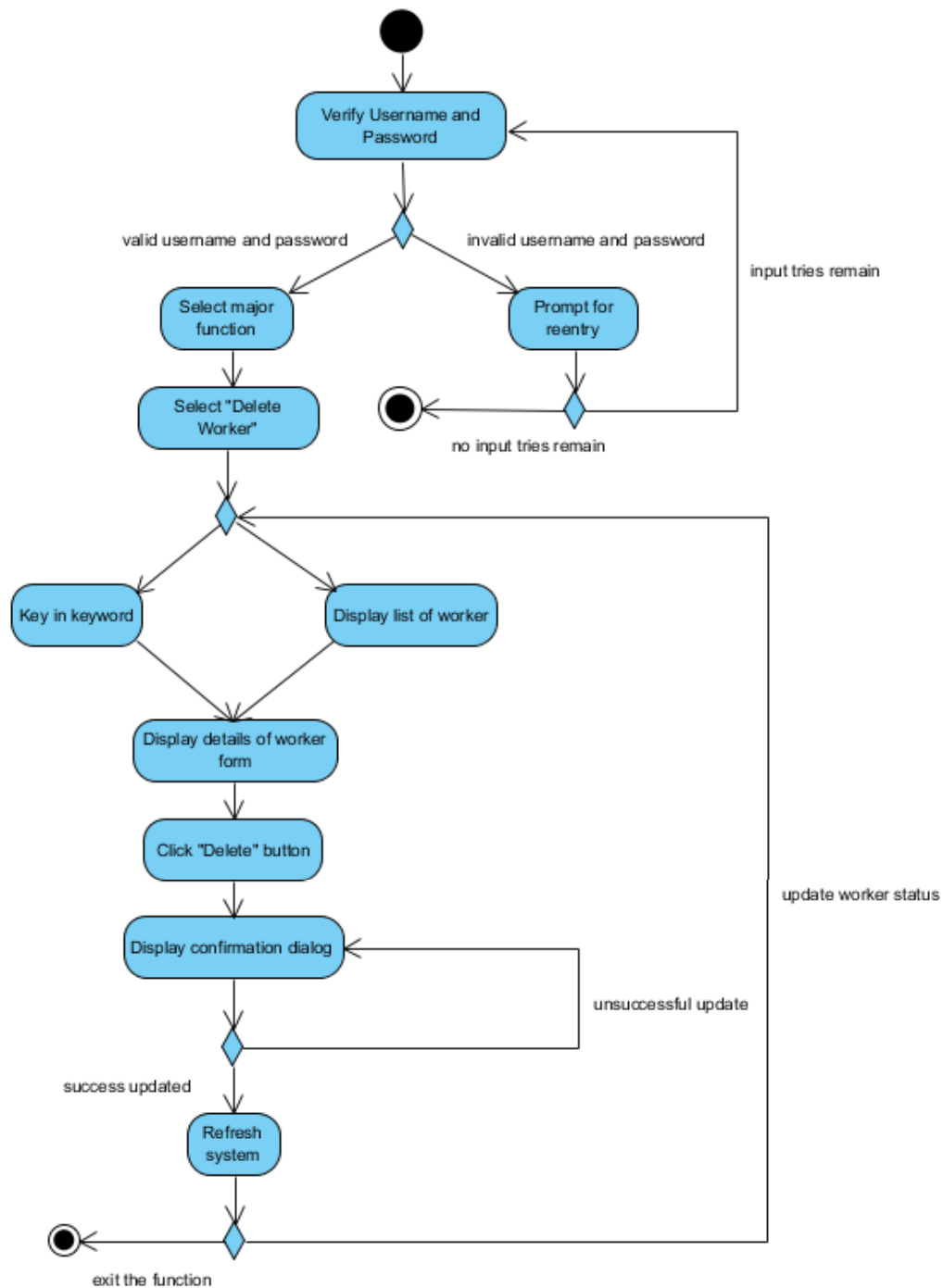
3.2.3 Update Worker Detail

Company will enter the username and password. System will retrieve data from database and comparing the username and password. If the username and password are not matching, system will return to login page. If the compare username and password is correct, system will show the home page. Company can select update worker function to edit worker personal details. System will retrieve data from database and show the worker personal details form and company select the edit button to starting edit the details and click the update button to complete the update details. System will prompt out the confirmation dialog box, company can select yes then the details update into database.
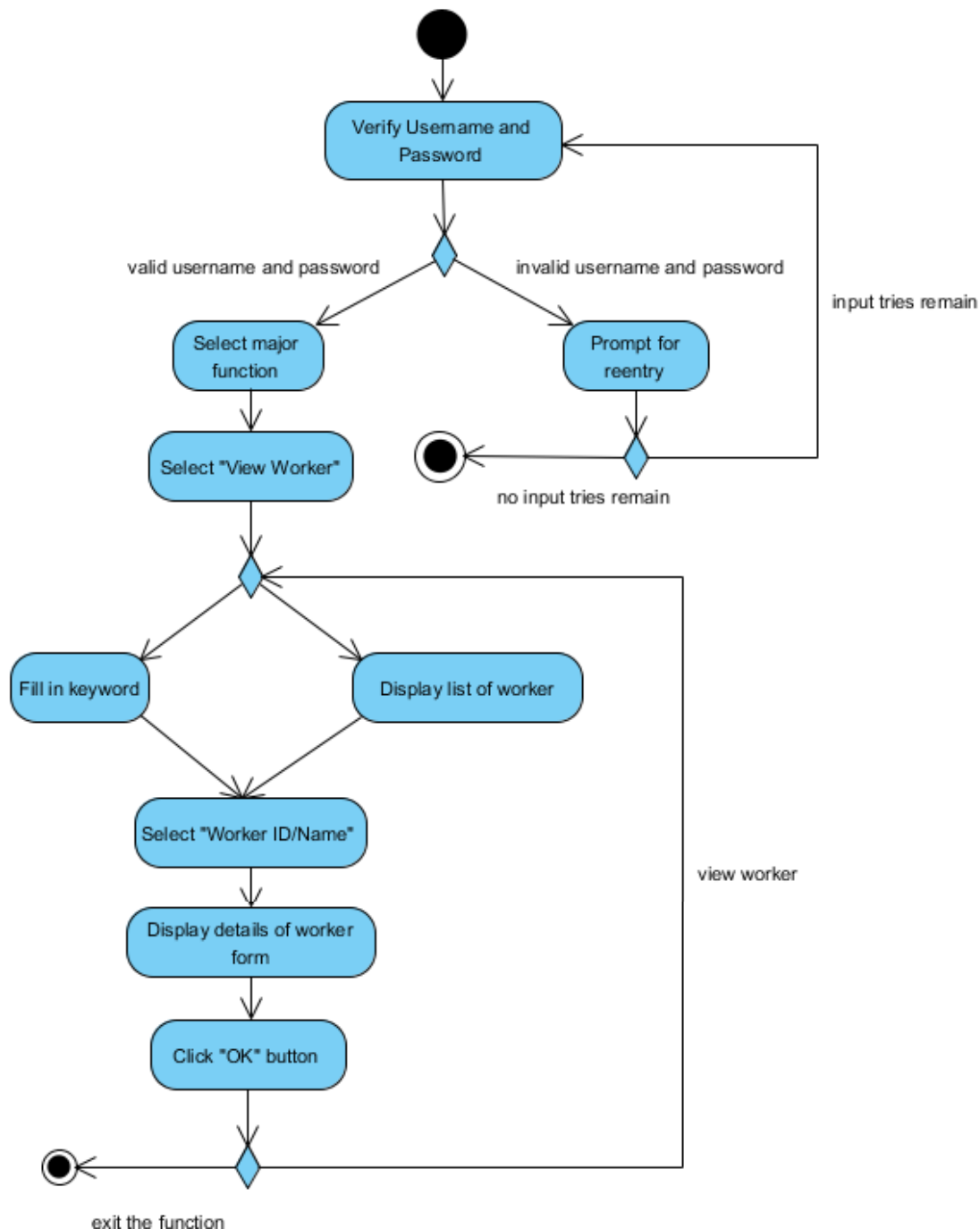
3.2.4 Delete Worker Detail

Company will enter the username and password. System will retrieve data from database and comparing the username and password. If the username and password are not matching, system will return to login page. If the compare username and password is correct, system will show the home page. Company can select the delete worker function in home page. Company enter the worker username and request to database to search the worker. Database retrieve the worker details and system show the worker details form, and company click delete button system prompt out the confirmation dialog box. Company select yes to update the worker status become resignation.
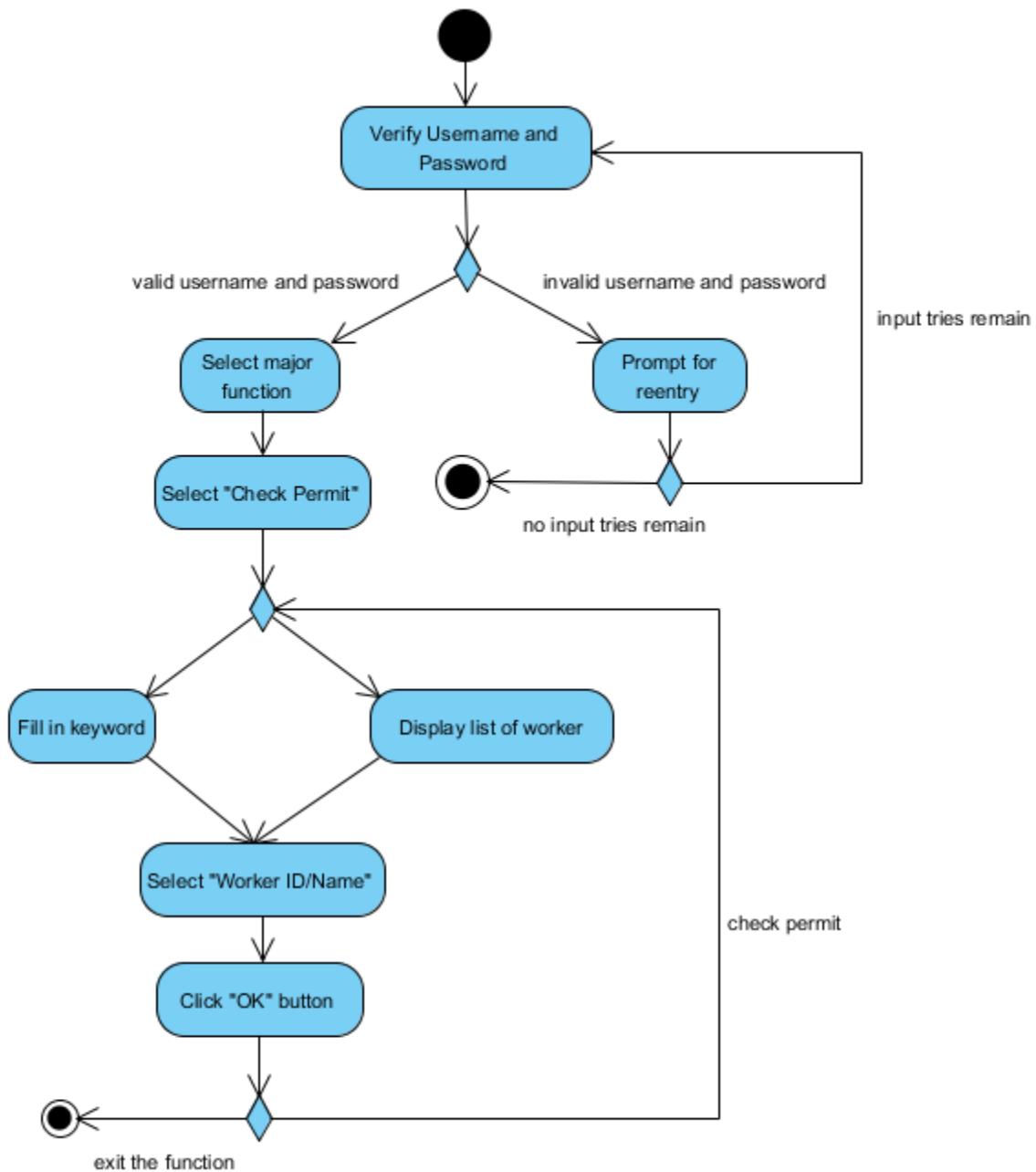
3.2.5 View Worker Detail

Company will enter the username and password. System will retrieve data from database and comparing the username and password. If the username and password are not matching, system will return to login page. If the compare username and password is correct, system will show the home page. Company select the view worker function to view the worker personal details. System will retrieve data from database and display the details in worker list. Company also can key in worker id to let system search the particular worker. Company can select the particular worker id in the worker list. System will retrieve data from database and display the details in worker detail form.

3.2.6 Check Permit

Company will enter the username and password. System will retrieve data from database and comparing the username and password. If the username and password are not matching, system will return to login page. If the compare username and password is correct, system will show the home page. Company select the check permit to check the permit status. System will retrieve the details from database.

3.2.7 Renew Permit

Company will enter the username and password. System will retrieve data from database and comparing the username and password. If the username and password are not matching, system will return to login page. If the compare username and password is correct, system will show the home page.If the status is expired, company can click the renew button to renew permit. After renew permit, the system update the data into database and system show that status is pending.
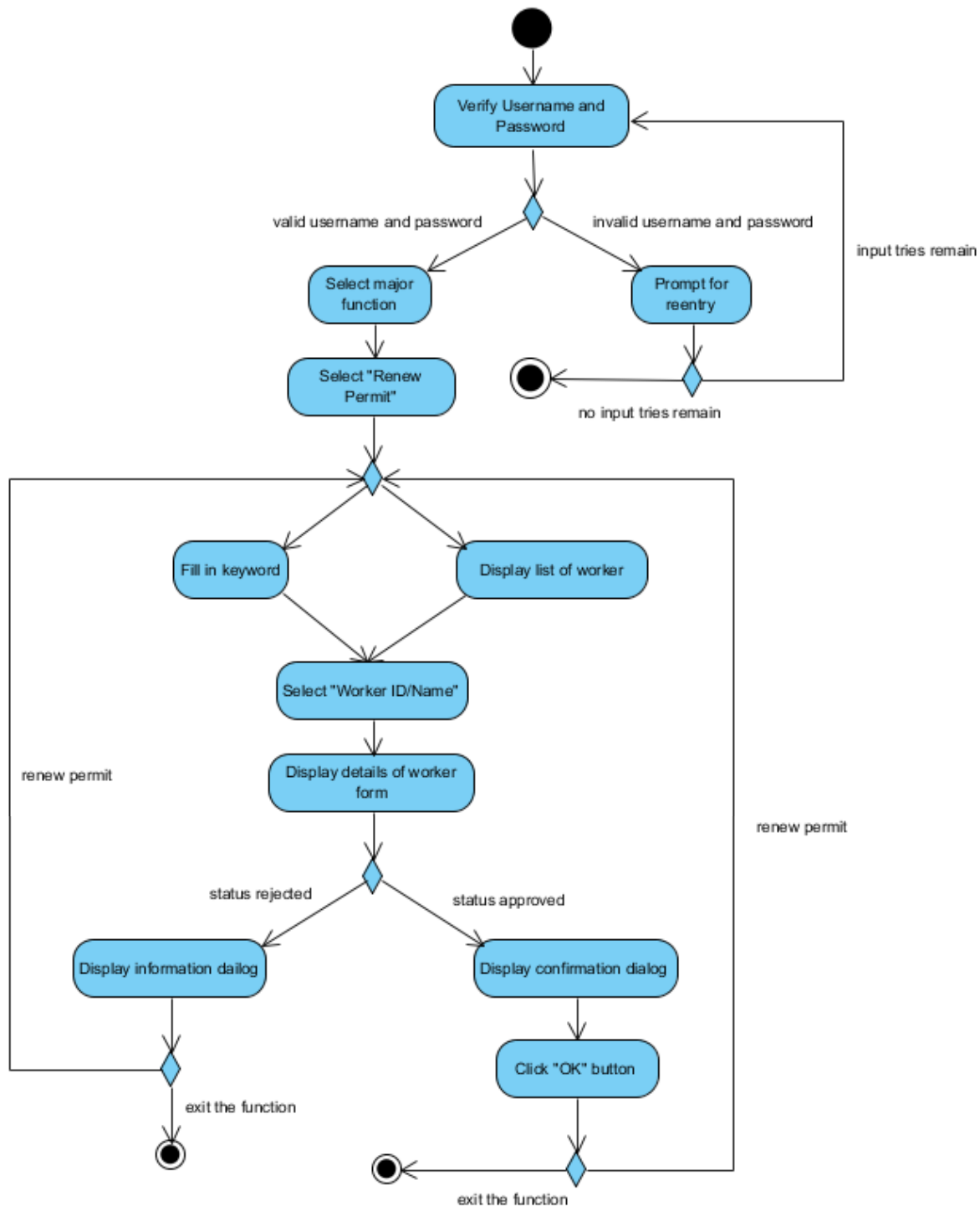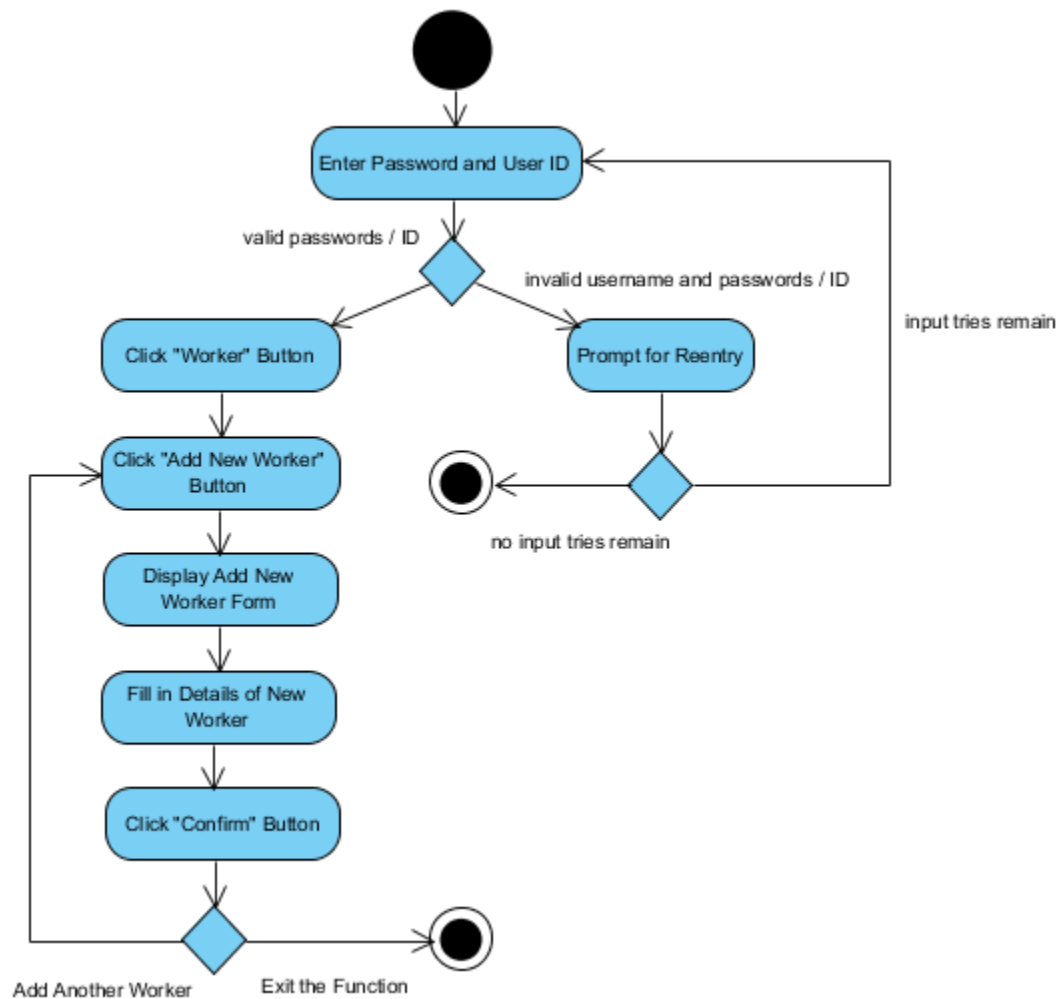
3.3 Agency Staff

3.3.1 Add Company

Staff will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Staff select add company to add a new company.System display add new company form. Company fill in their detail. Click Confirm to save the data. System will save the data into database.
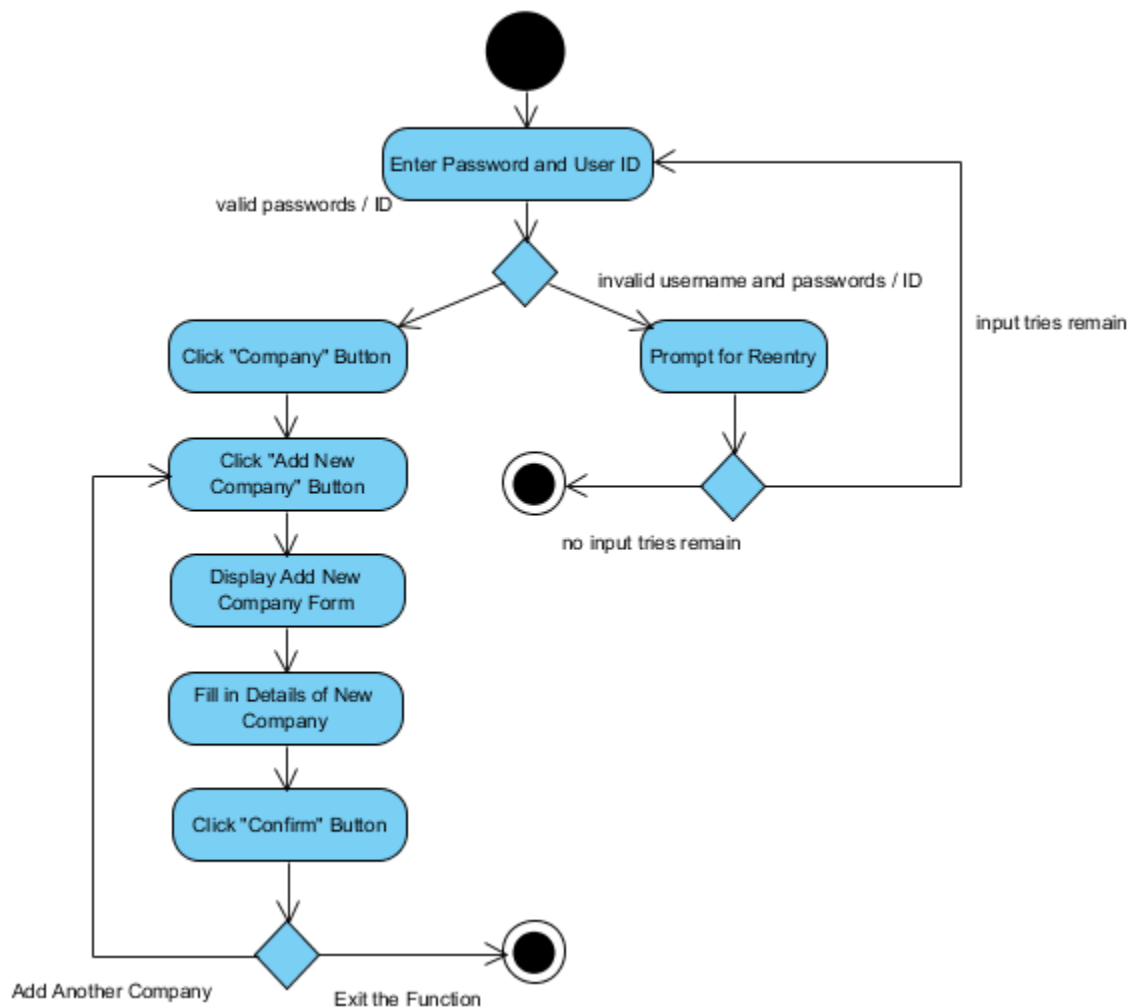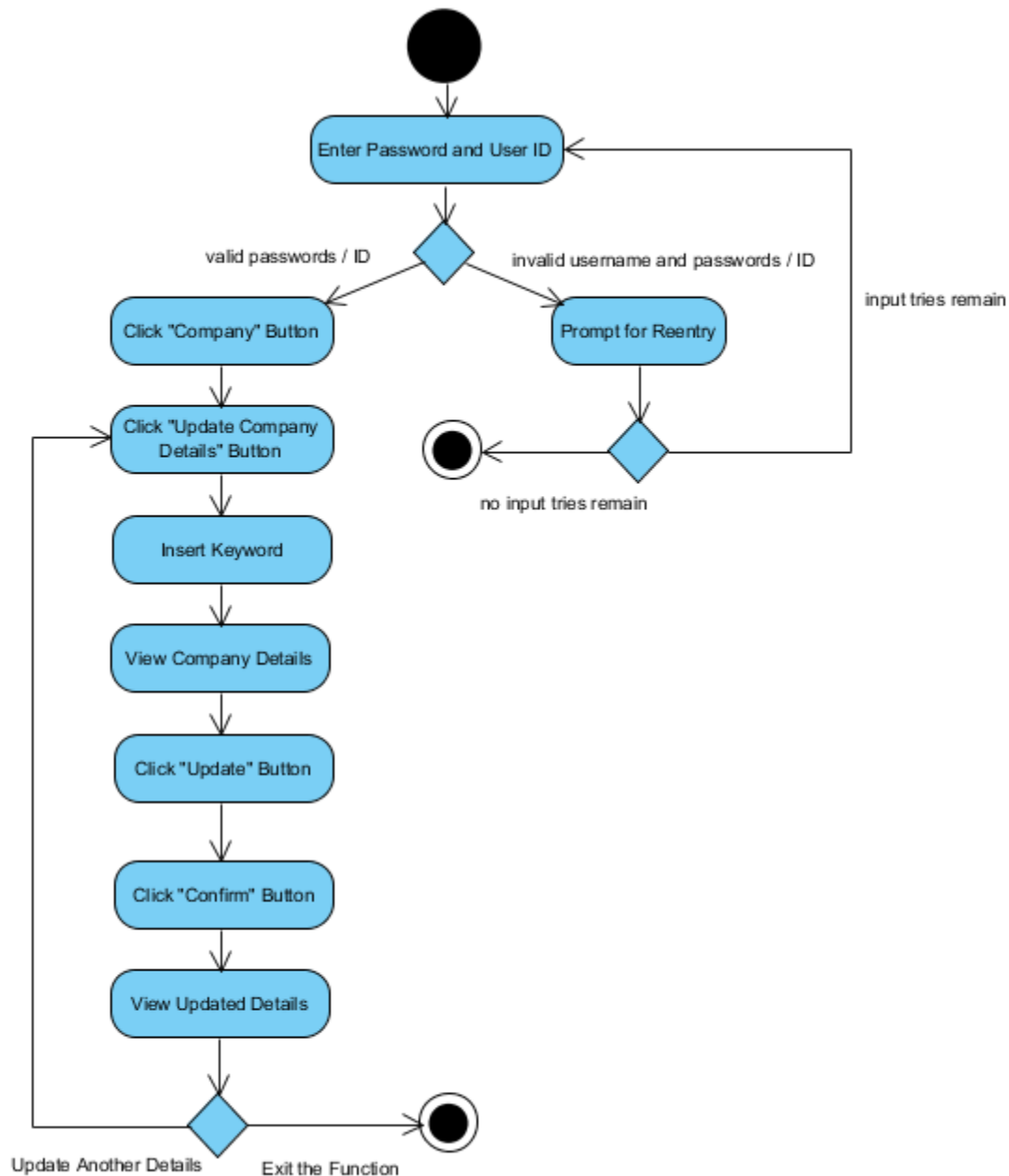
3.3.2 Add Worker

Staff will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Staff select add worker to add a new worker. System will display add new worker form. Staff fill in the form and click confirm button to save data. System will save data into to database.
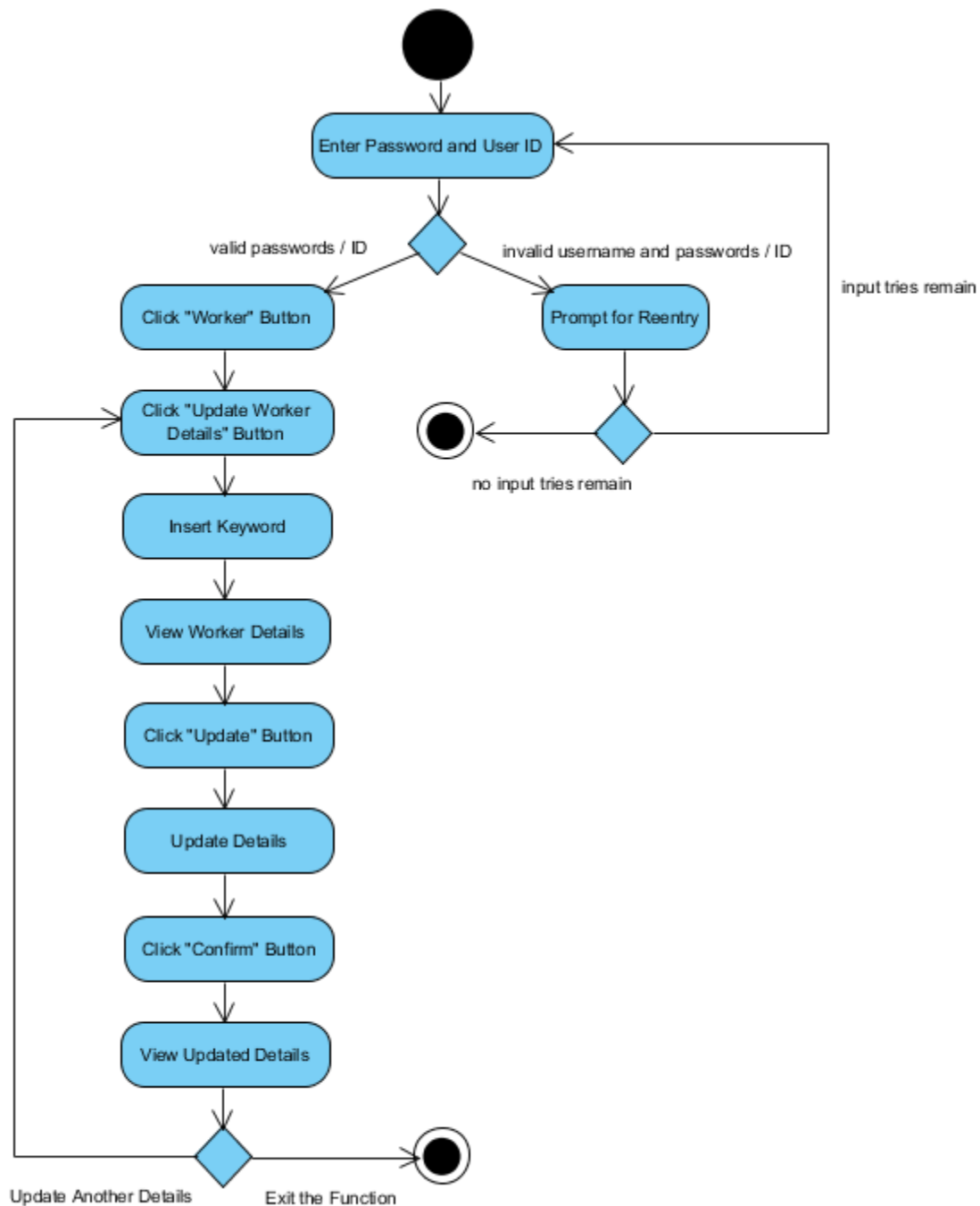
3.3.3 Update Company Detail

Staff will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Staff also can select update company details to update the company details. Staff can enter new company and select save button to update. System will update the record in the database. After that,system will display updated details.
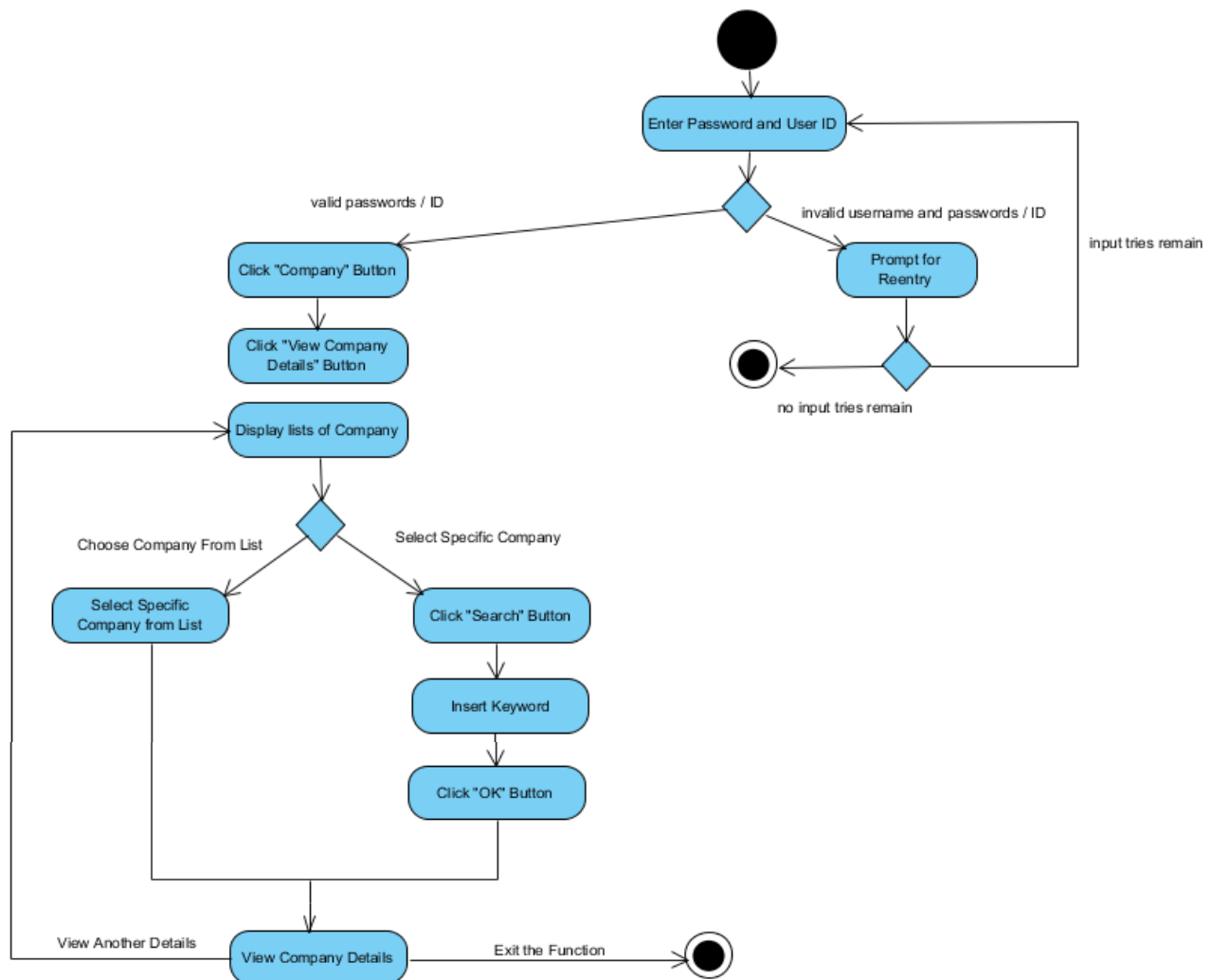
3.3.4 Update Worker Detail

Staff will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Staff can select update worker details function to update the worker details. Staff can new worker details and select save button to update. System will update the record in the database. After that, system will display updated details.
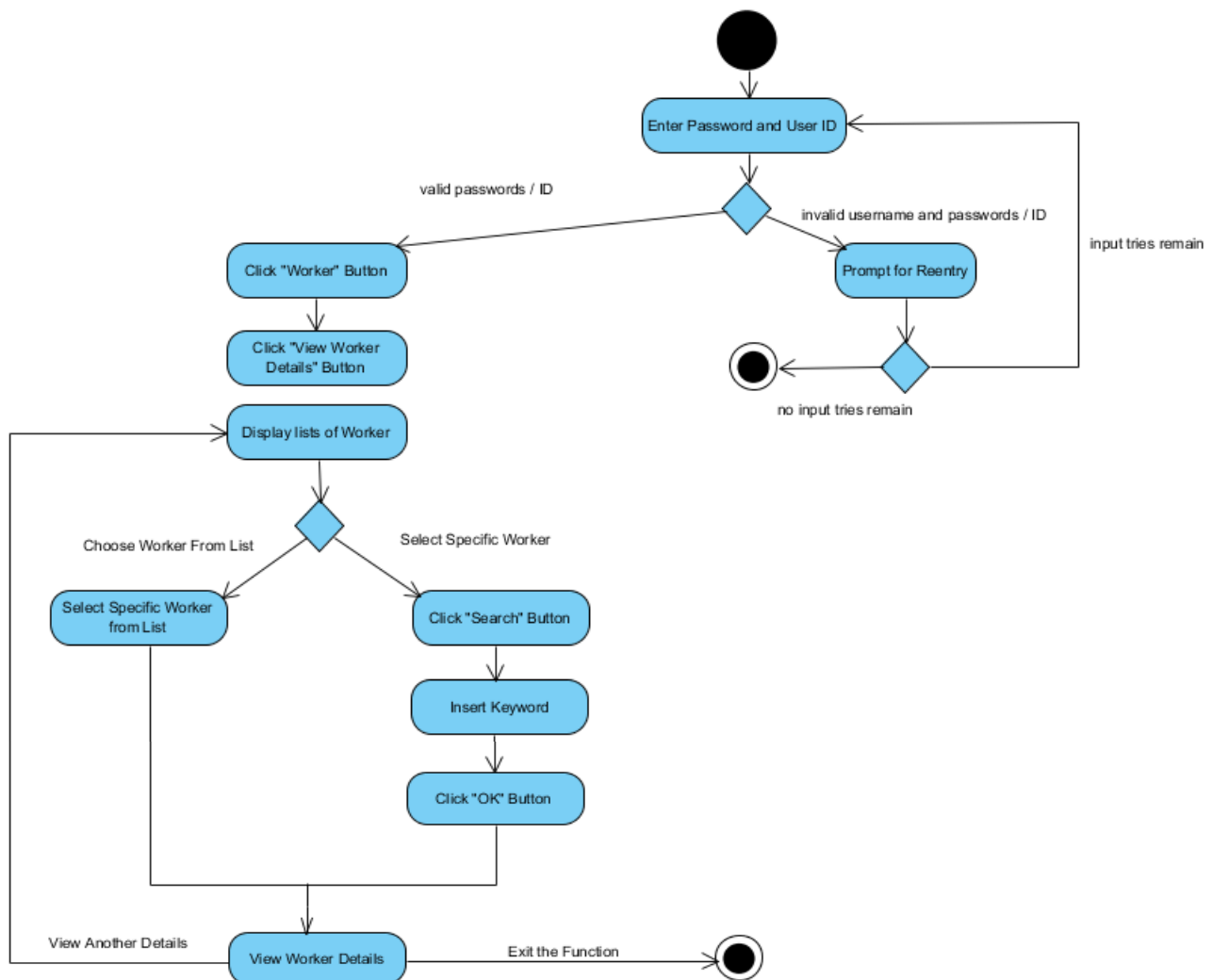
3.3.5 View Company Detail

Staff will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Staff can select view company details to view their details. System display company detail in the company list. Staff also can key in company id to let system search the particular company detail in the company list. Staff select particular company detail in the list. System retrieve data from database and display the data in the company detail form.
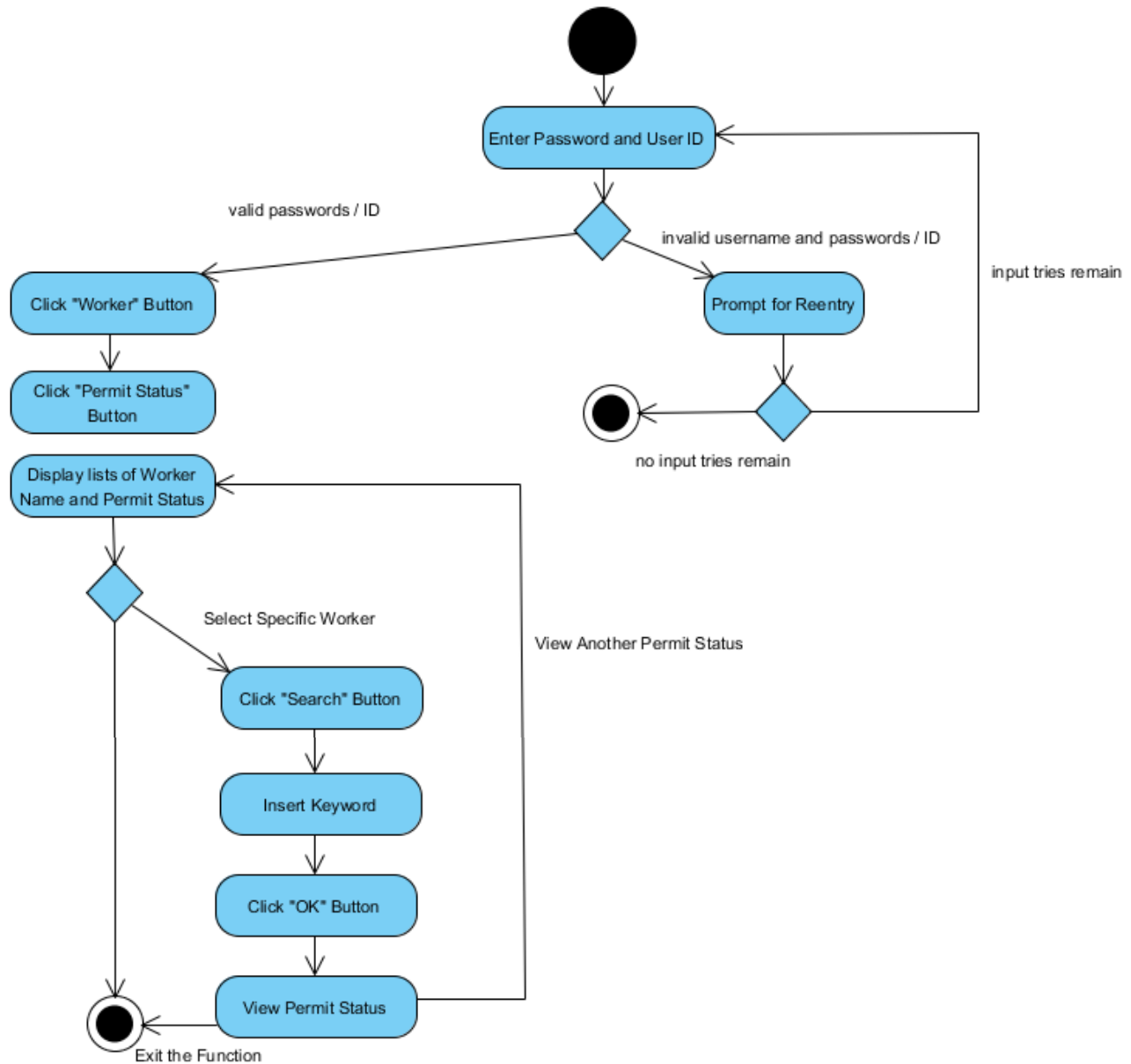
3.3.6 View Worker Detail

Staff will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Staff can select view worker details to view their details. System display worker detail in the worker list. Staff also can key in worker id to let system search the particular worker detail in the worker list. Staff select particular worker detail in the list. System retrieve data from database and display the data in the worker detail form.
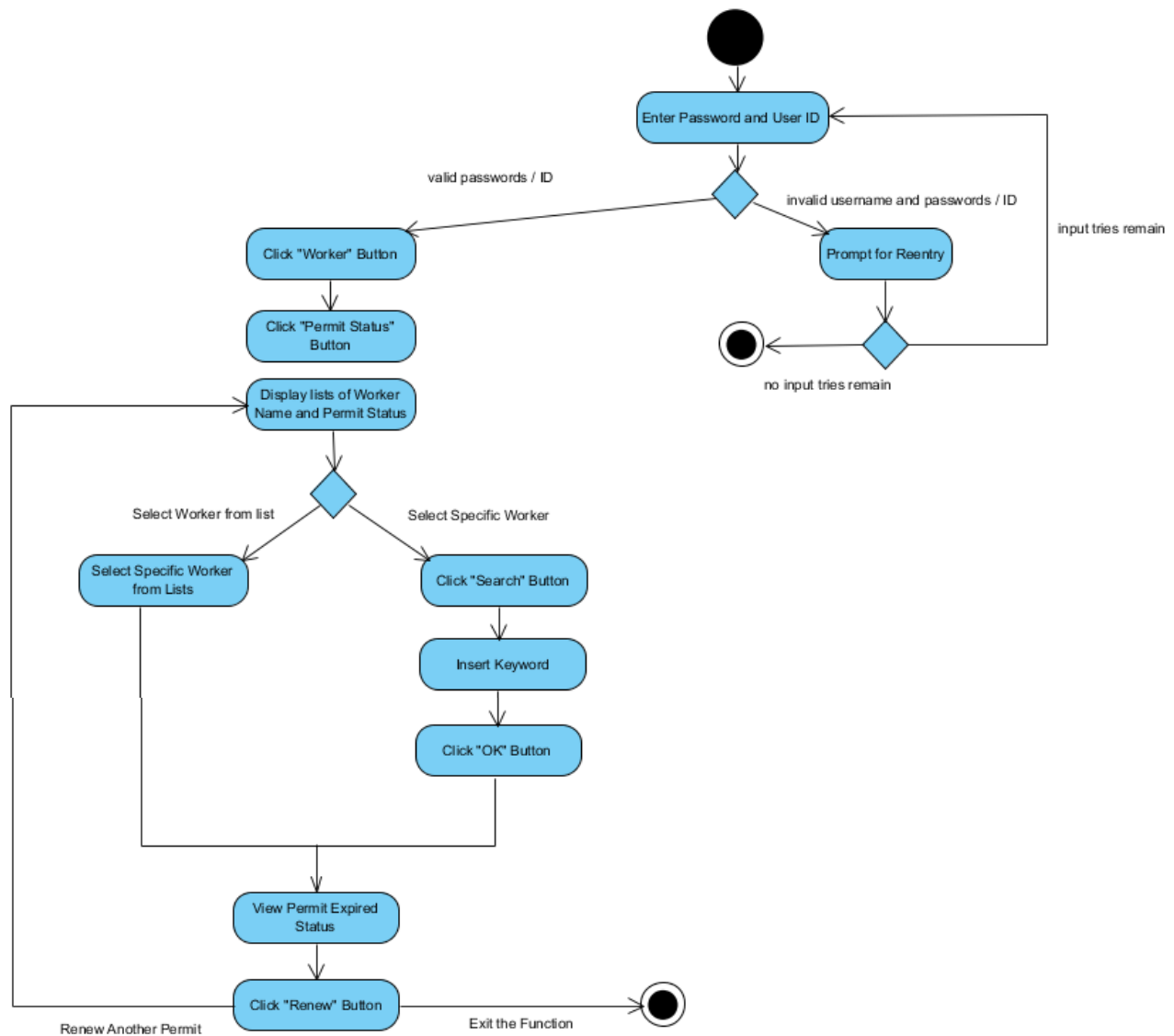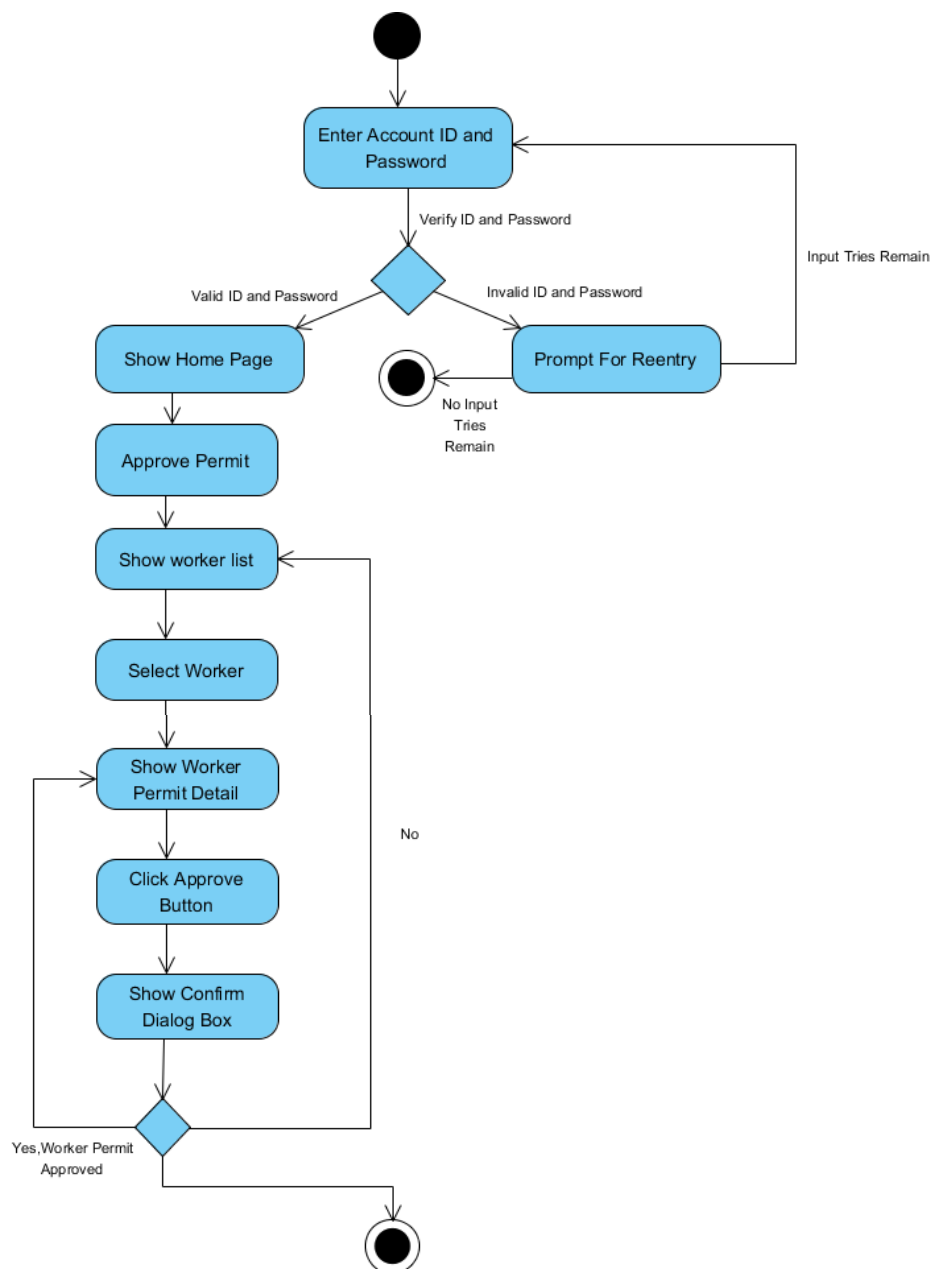
3.3.7 Check Permit

Staff will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Staff can check permit status function to view the working permit status. System will retrieve data from database and display the data in the working permit form.

3.3.8 Renew Permit

Staff will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Staff also can help customer apply for renew worker permit through renew permit function. Renew status will save in database.
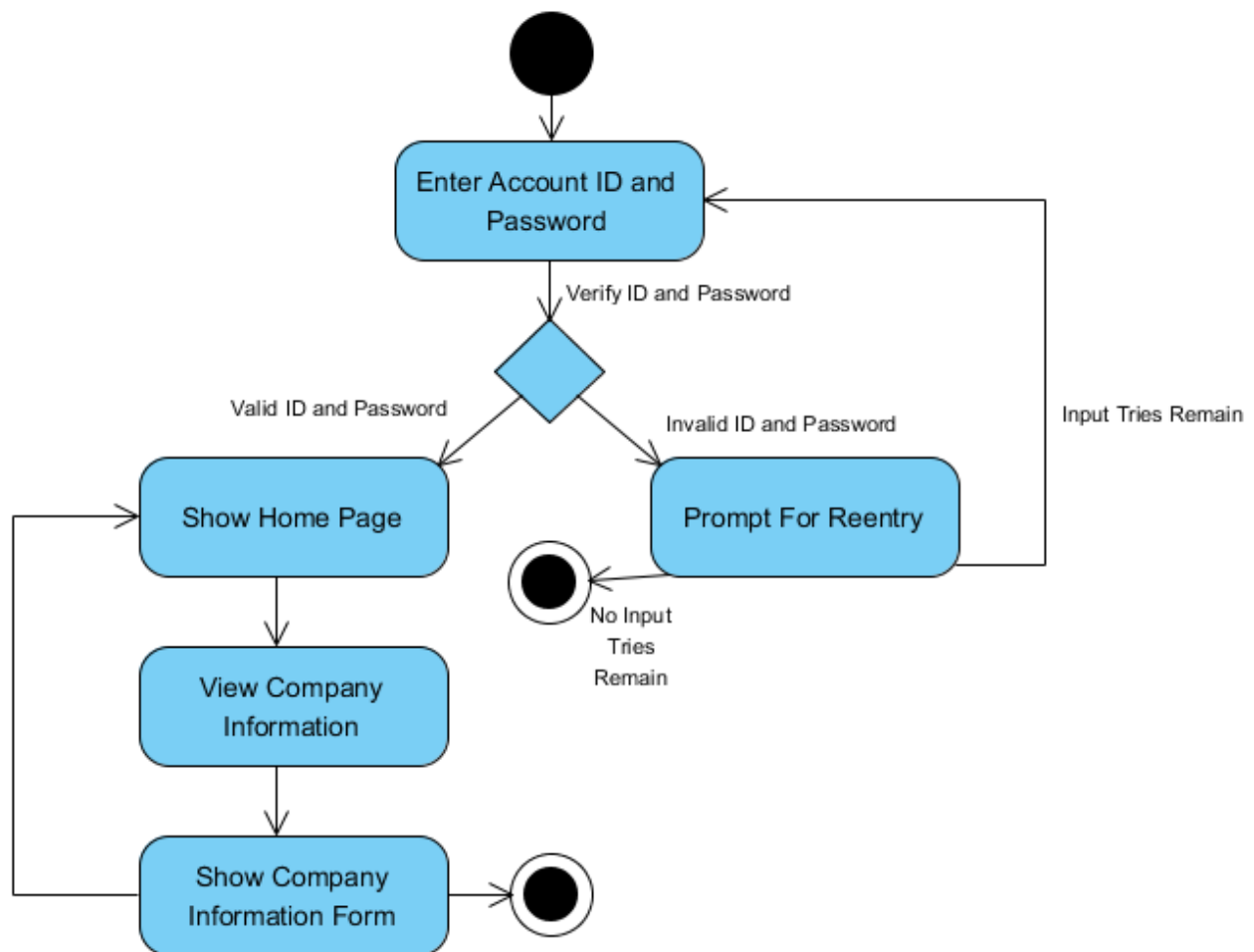
3.4 Agency Manager

3.4.1 Approve Permit

Manager will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Manager also can select update worker permit states function to update their permit states. Manager can approve permit and select approve button to update. System will prompt confirm message. Manager can either select yes or no. If yes ,then system will update the permit status in the database. If no, then the system will back to the working permit detail form. System will retrieve data from database and display the data in the working permit detail form.

3.4.2 View Company Information

Manager will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Manager select view company information function to view their information. System will retrieve data from database and display the data in the company detail form.

3.4.3 View Worker Information

Manager will enter ID and Password into system. The system will retrieve data from database and comparing the ID and Password. If ID and Password correct, then system show home page.If incorrect, system back to login. Manager select view worker information function to view their information. System will retrieve data from database and display the data in the worker detail form.
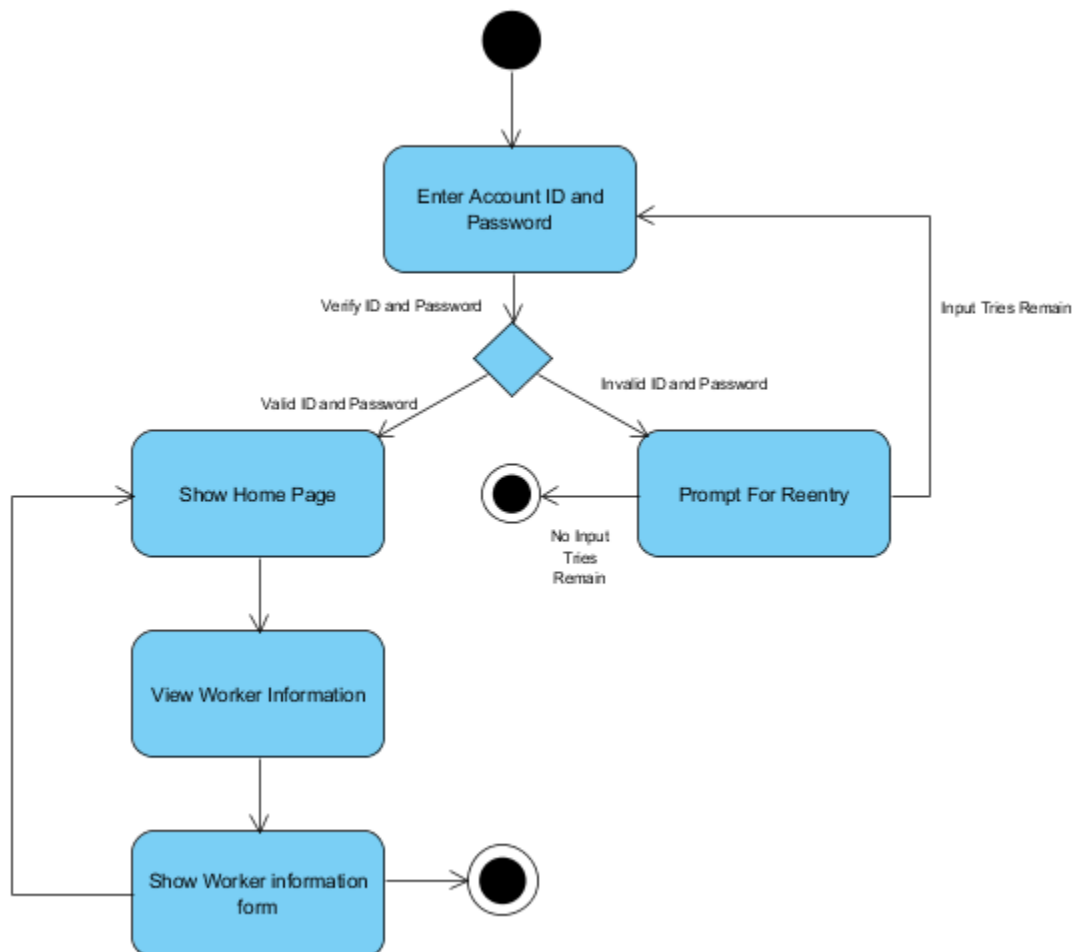
4 Specific Requirements

4.1 Class Diagrams

Worker class used for *store worker personal detail, display personal detail, update personal detail, provide detail to working permit, and provide detail to passport,* and *retrieve detail from company* to identify the worker hired by which company.

Company class used for *store company detail, update company detail, display company detail, provide detail to working permit,* and *provide detail to worker to indentify the worker hire by which company.*

Passport class used for *store worker passport detail, display worker passport detail, retrieve detail from worker,* and *provide detail to working permit.*

WorkingPermit class used for *store working permit detail, display working permit detail, update working permit detail, retrieve detail from worker,* and *retrieve detail from company.*

*Manager class* used for *store manager personal detail.*

Staff class used for *store manager personal detail.*
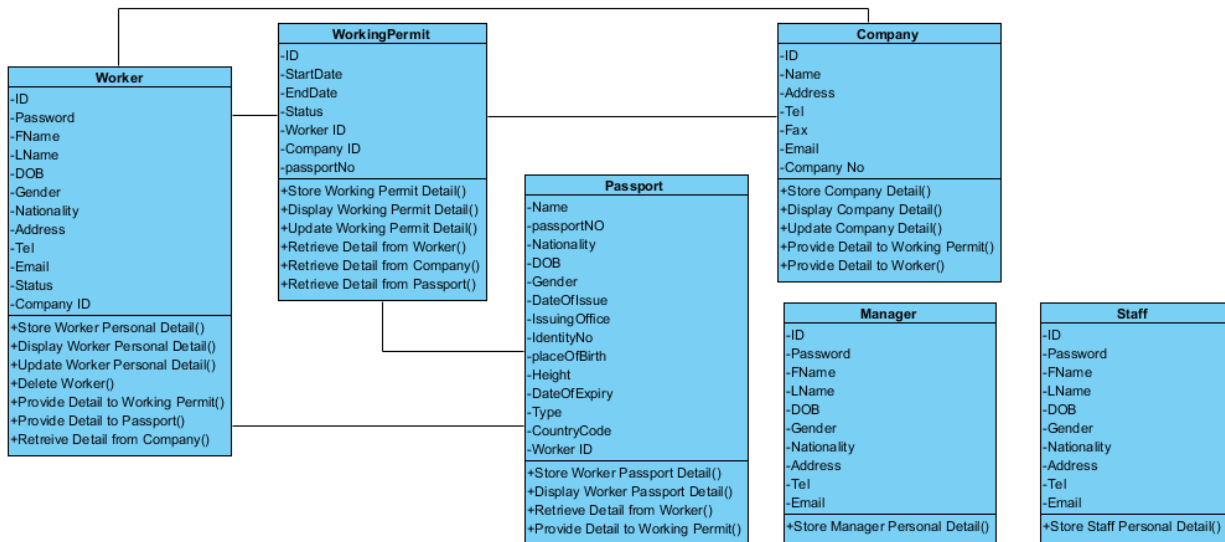
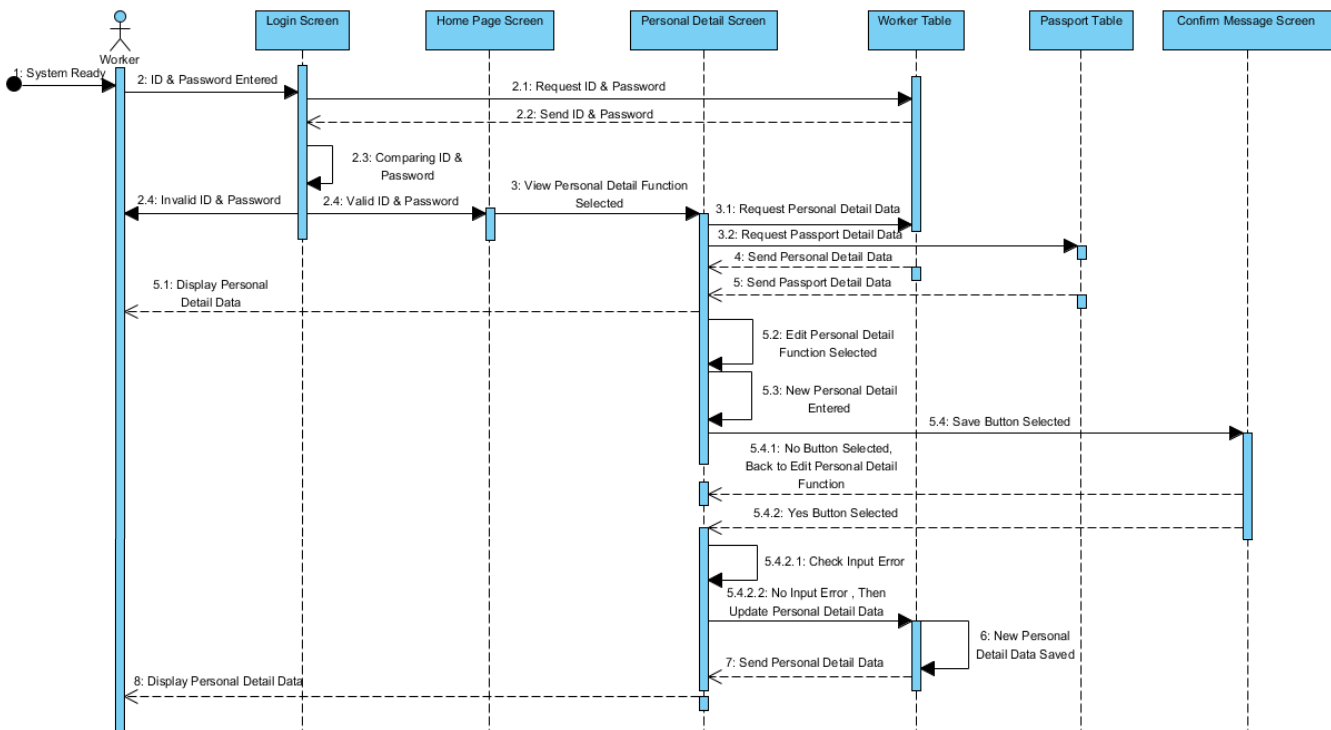## 4.2 Sequence Diagrams

4.2.1 View Personal Detail (Worker)

1. Worker will enter ID and Password into system.

2. The system will retrieve data from worker table and comparing the ID and Password.

3. If correct, then system show home page ; If incorrect, system back to login.

4. Worker select view personal detail function to view their personal detail.

5. System will retrieve data from worker table and display the data in the personal detail form.
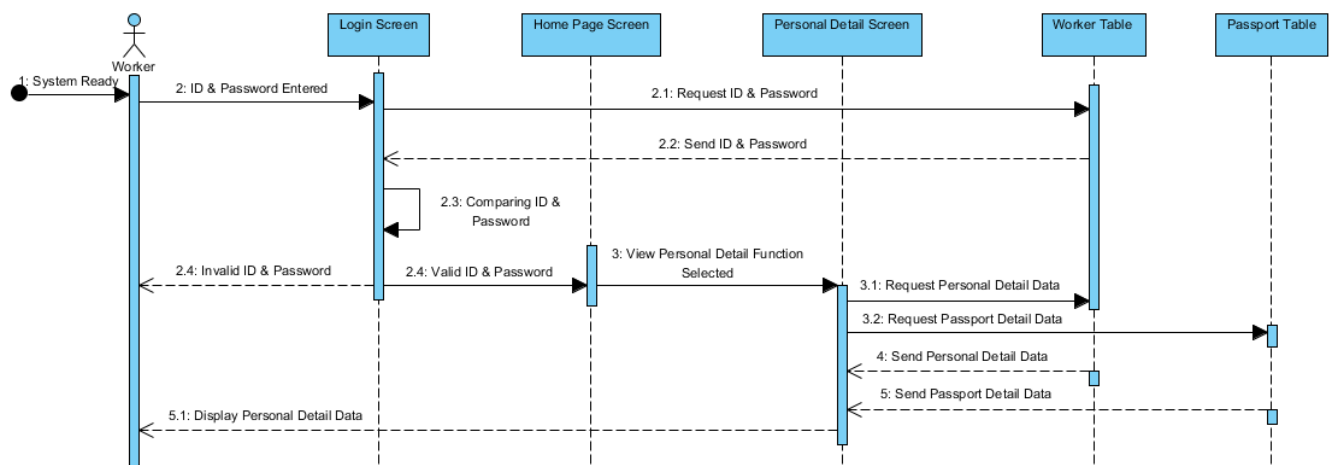
4.2.2 Edit Personal Detail (Worker)

1. Worker will enter ID and Password into system.

2. The system will retrieve data from worker table and comparing the ID and Password.

3. If correct, then system show home page ; If incorrect, system back to login.

4. Worker select view personal detail function to view their personal detail.

5. System will retrieve data from worker table and display the data in the personal detail form.

6. Worker also can select edit personal detail function to update their personal detail.

7. Worker can enter new personal detail and select save button to update.

8. System will prompt confirm message, worker can either select yes or no.

9. If yes ,then system will check the entered detail which cant not to be empty value and wrong input format. If no, then the system will back to the edit state.

10. After checking, if no any input error, then system will update the record in the worker table.

4.2.3 View Working Permit Status (Worker)

1. Worker will enter ID and Password into system.

2. The system will retrieve data from worker table and comparing the ID and Password.

3. If correct, then system show home page ; If incorrect, system back to login.

4. Worker can select view working permit status function to view their working permit status.

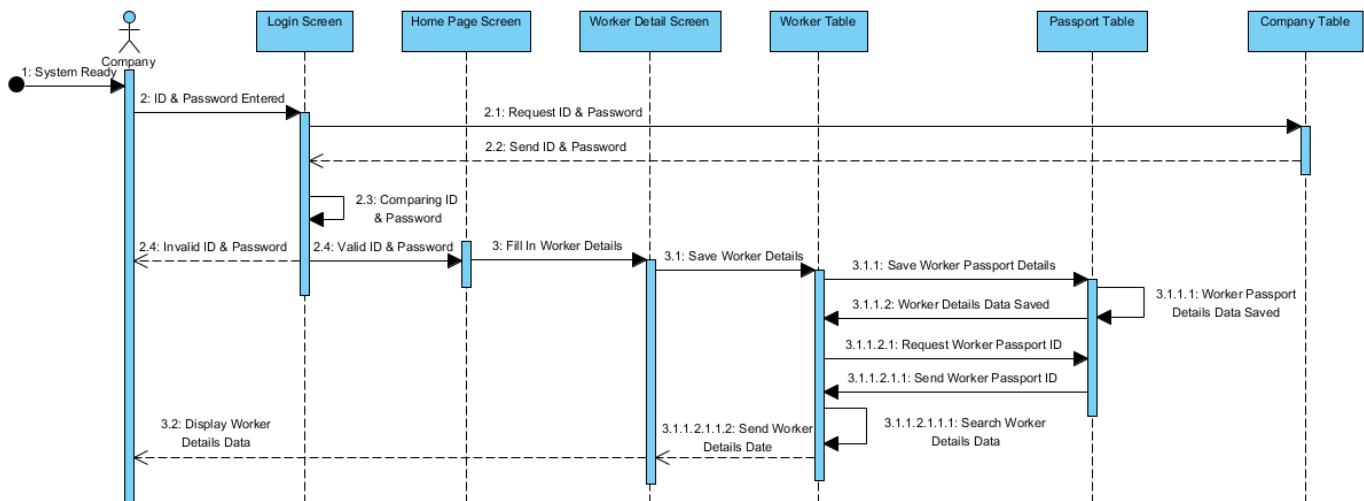5. System will retrieve data from workingpermit table and display the data in the working permit form.
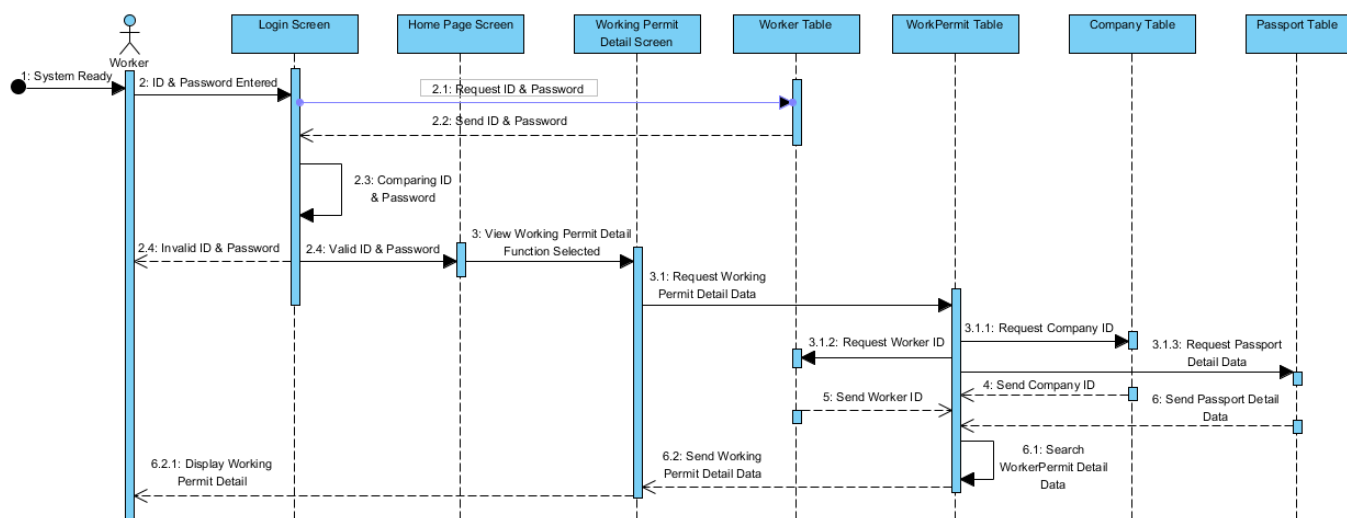
4.2.4 Apply Permit (Company)

1. *Company will enter the ID and password.*
2. *System will retrieve data from company table and comparing the ID and password.*
3. *If the ID and password are not matching, system will return to login page ; If the compare ID and password is correct, system will show the home page.*
4. *Company select the apply permit function that can help worker apply permit.*
5. *System will retrieve the worker details from worker table and show in the worker permit form.*
6. *Company click the apply button.*
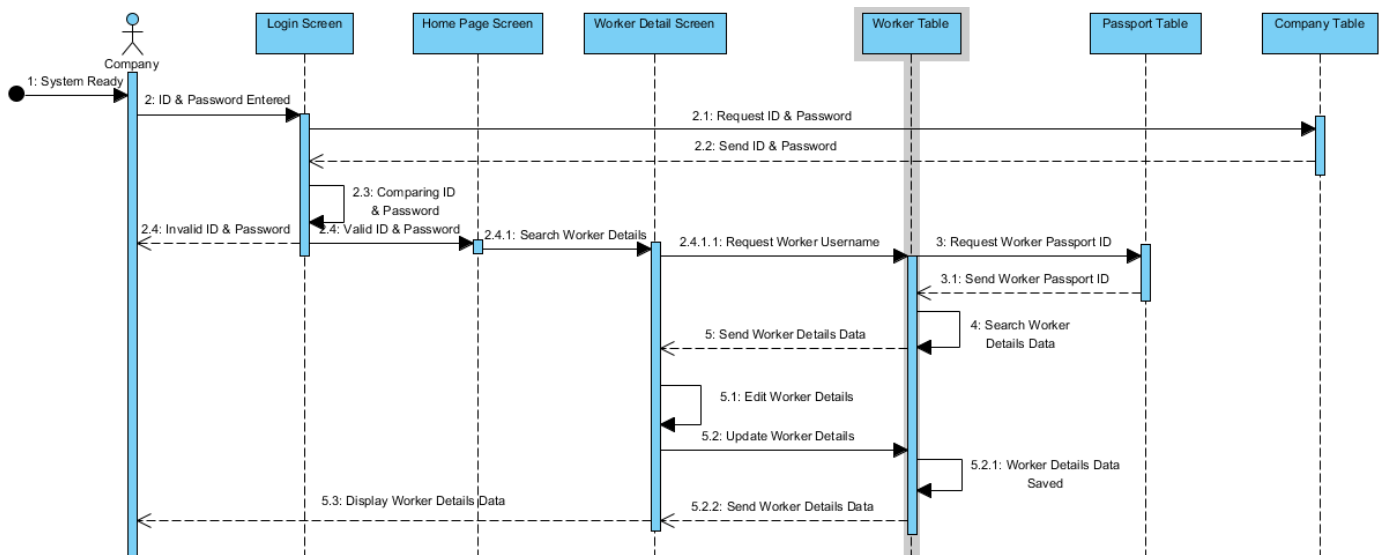7. *System update the permit status become pending in the working permit table.*
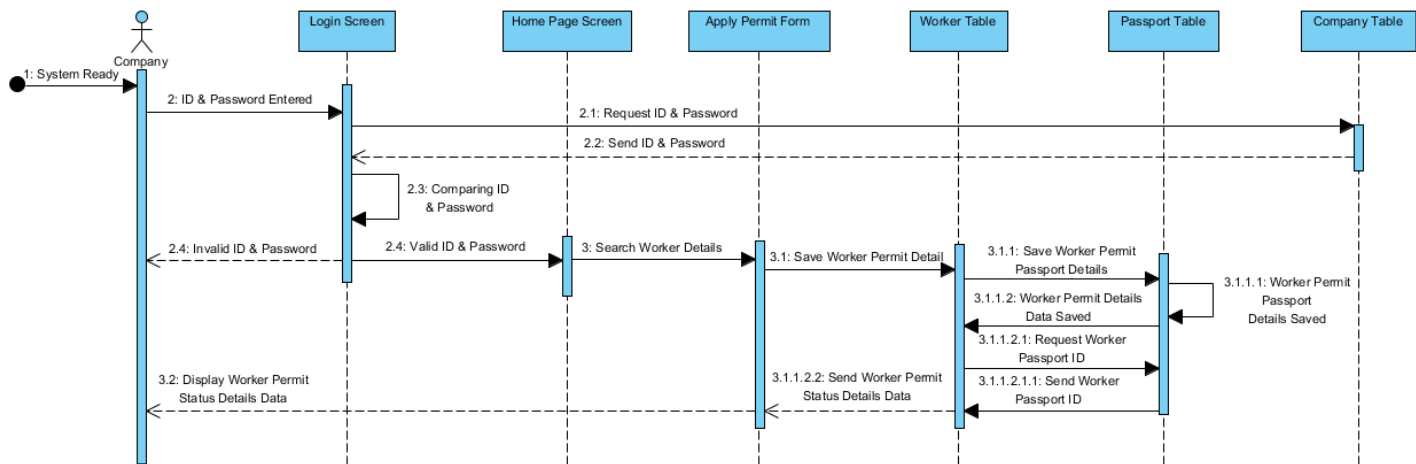
4.2.5 Insert Worker Detail (Company)

1. Company will enter the ID and password.
2. System will retrieve data from company table and comparing the ID and password.
3. If the ID and password are not matching, system will return to login page ; If the compare ID and password is correct, system will show the home page.
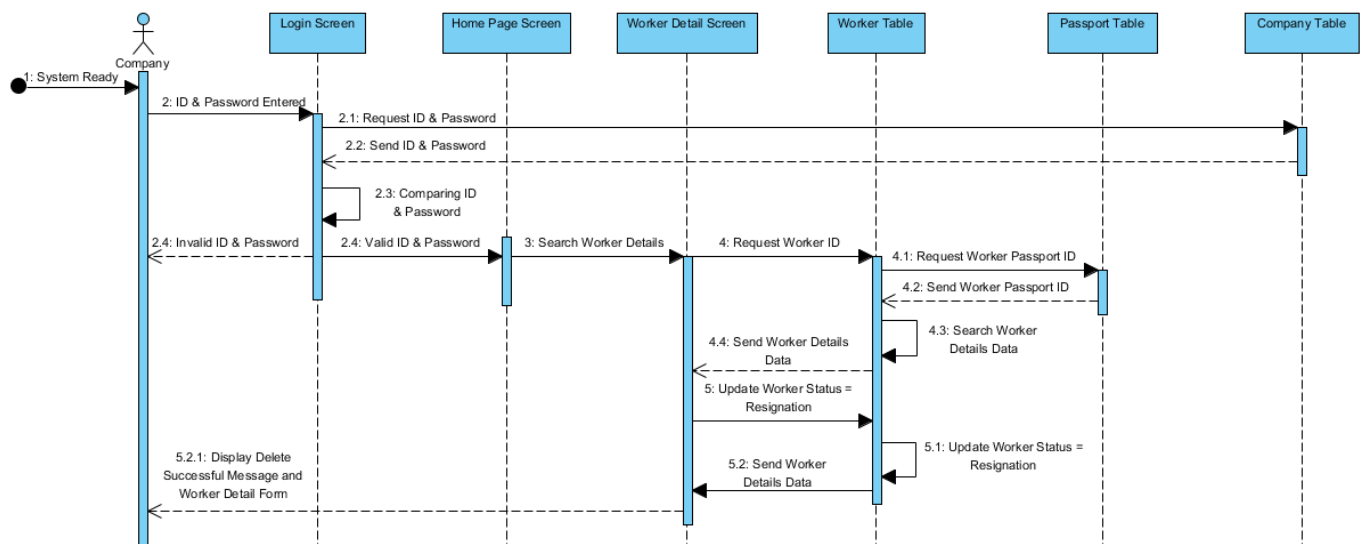4. Company select add worker detail function to add worker personal details into worker table.

4.2.6 Update Worker Detail (Company)

1. Company will enter the ID and password.

2. System will retrieve data from company table and comparing the ID and password.

3. If the ID and password are not matching, system will return to login page ; If the compare ID and password is correct, system will show the home page.

4. Company can select update worker function to edit worker personal details.

5. System will retrieve data from worker table and show the worker personal details form.

6. Company select the edit button to starting edit the details.

7. Company click the update button to complete the update details.

8. System will prompt out the confirmation dialog box.

9. Company can select yes then the details update into worker table.

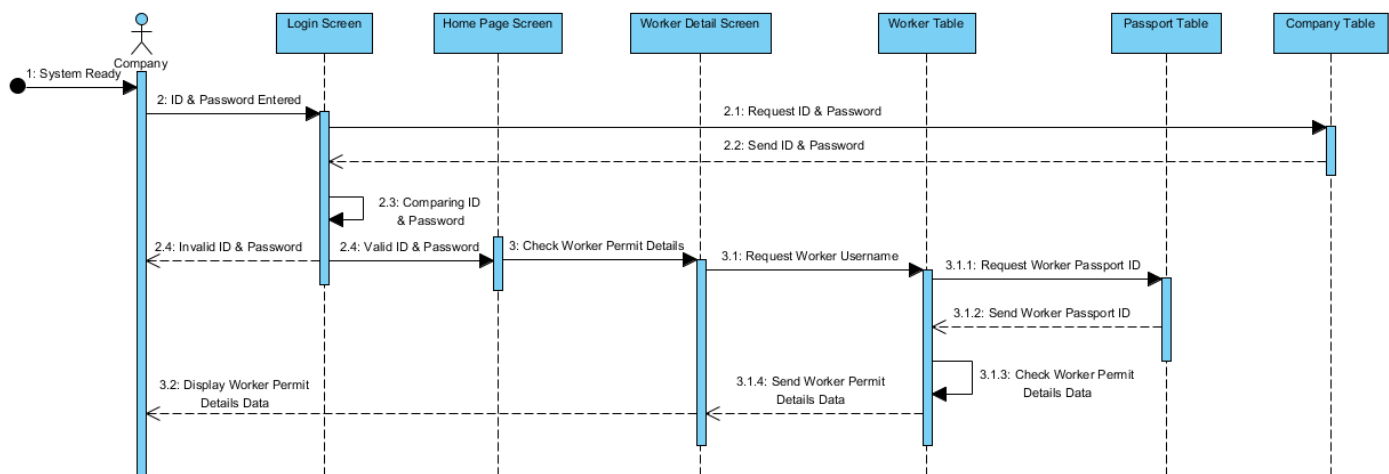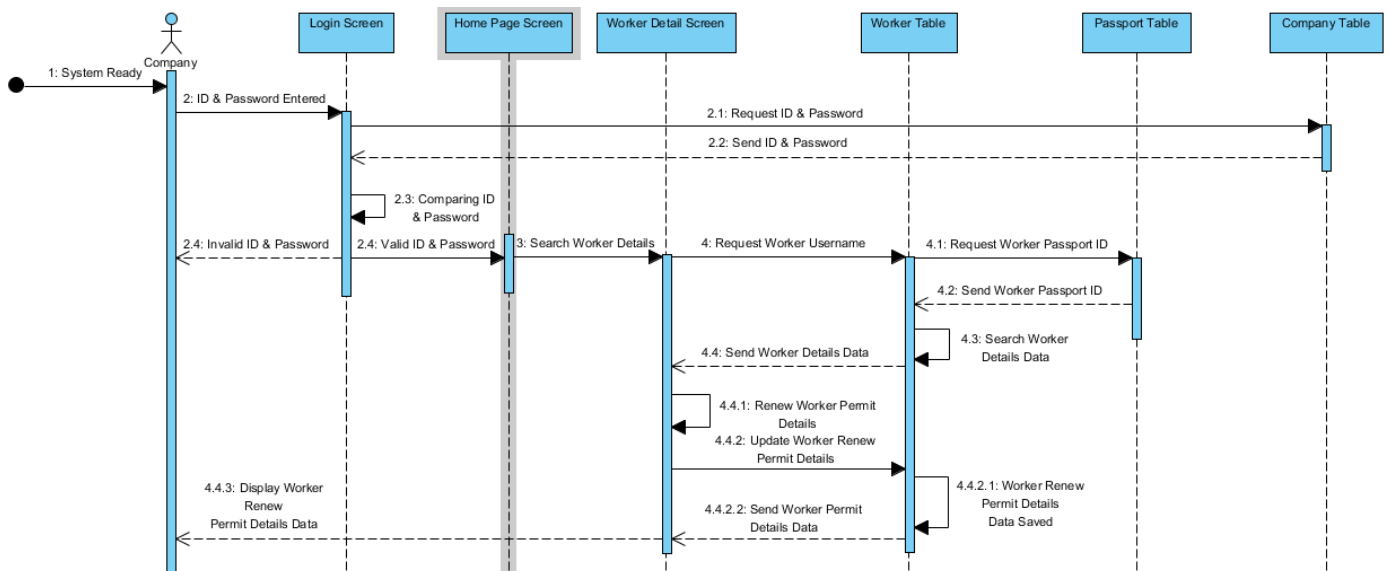### 4.2.7 Delete Worker Detail (Company)

1. Company will enter the ID and password.

2. System will retrieve data from company table and comparing the ID and password.

3. If the ID and password are not matching, system will return to login page ; If the compare ID and password is correct, system will show the home page.

4. Company can select the delete worker function in home page.

5. Company enter the worker username and request to worker table to search the worker. system will retrieve the worker details and show the worker details form

6. Company click delete button , then system prompt out the confirmation dialog box.

7. Company select yes to update the worker status become resignation in the working permit table.

4.2.8 View Worker Detail (Company)

1. Company will enter the ID and password.

2. System will retrieve data from database and comparing the ID and password.

3. If the ID and password are not matching, system will return to login page ; If the compare ID and password is correct, system will show the home page.

4. Company select the view worker function to view the worker personal details.

5. System will retrieve data from worker table and display the details in the worker personal details form.
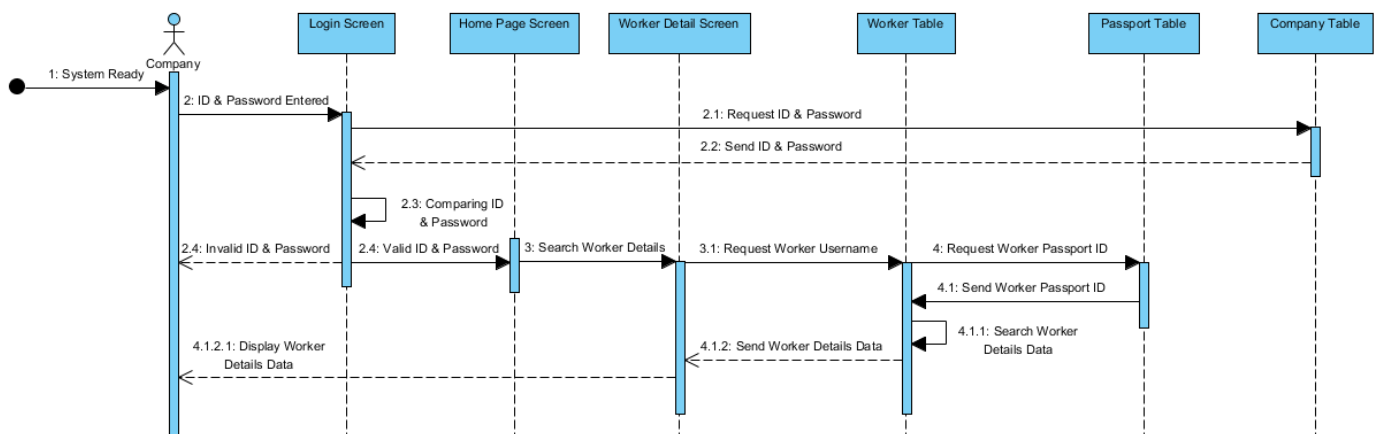
4.2.9 Check Permit Status (Company)

1. Company will enter the ID and password.

2. System will retrieve data from company table and comparing the ID and password.

3. If the ID and password are not matching, system will return to login page ; If the compare ID and password is correct, system will show the home page.

4. Company select the check permit to check the permit status.

5. System will retrieve the details from working permit table.

4.2.10 Renew Permit (Company)

1. Company will enter the ID and password.

2. System will retrieve data from Company table and comparing the ID and password.

3. If the ID and password are not matching, system will return to login page ; If the compare ID and password is correct, system will show the home page.

4. If the status is expired, company can click the renew button to renew permit.

5. After renew permit, the system update the data into working permit table and system show that status is pending.

4.2.11 Add Company (Agency Staff)

1. Staff will enter ID and Password into system.

2. The system will retrieve data from staff table and comparing the ID and Password.

3. If ID and Password correct, then system show home page.If incorrect, system back to login.

4. Staff select add company to add a new company.
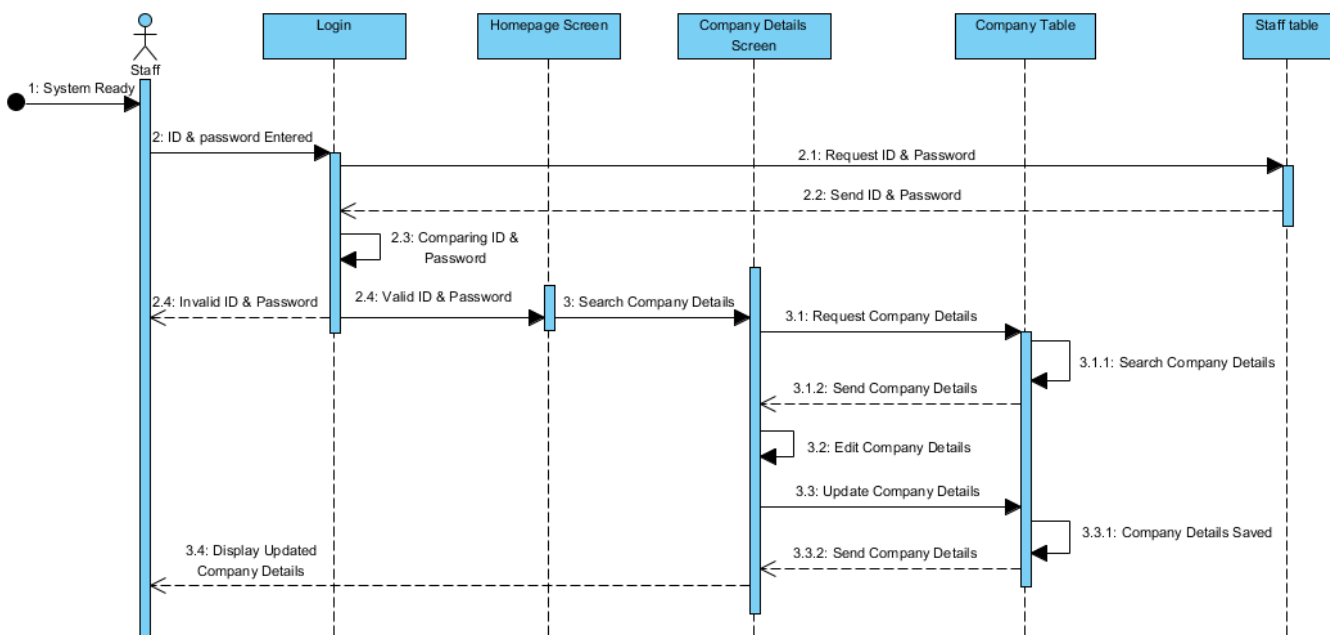
5. System will save data to company table.
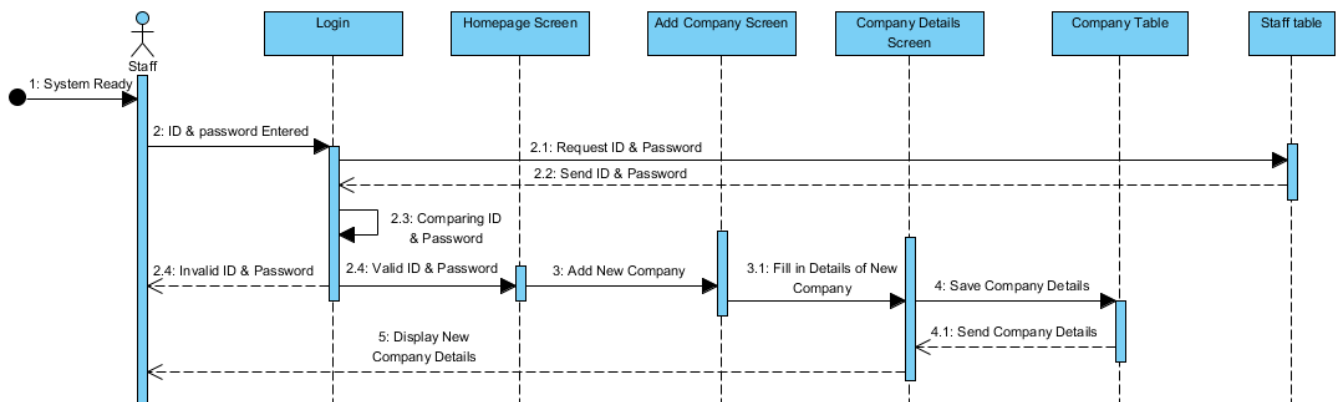
4.2.12 Add Worker (AgencyStaff)

1. Staff will enter ID and Password into system.

2. The system will retrieve data from staff table and comparing the ID and Password.

3. If ID and Password correct, then system show home page.If incorrect, system back to login.

4. Staff select add worker to add a new worker.

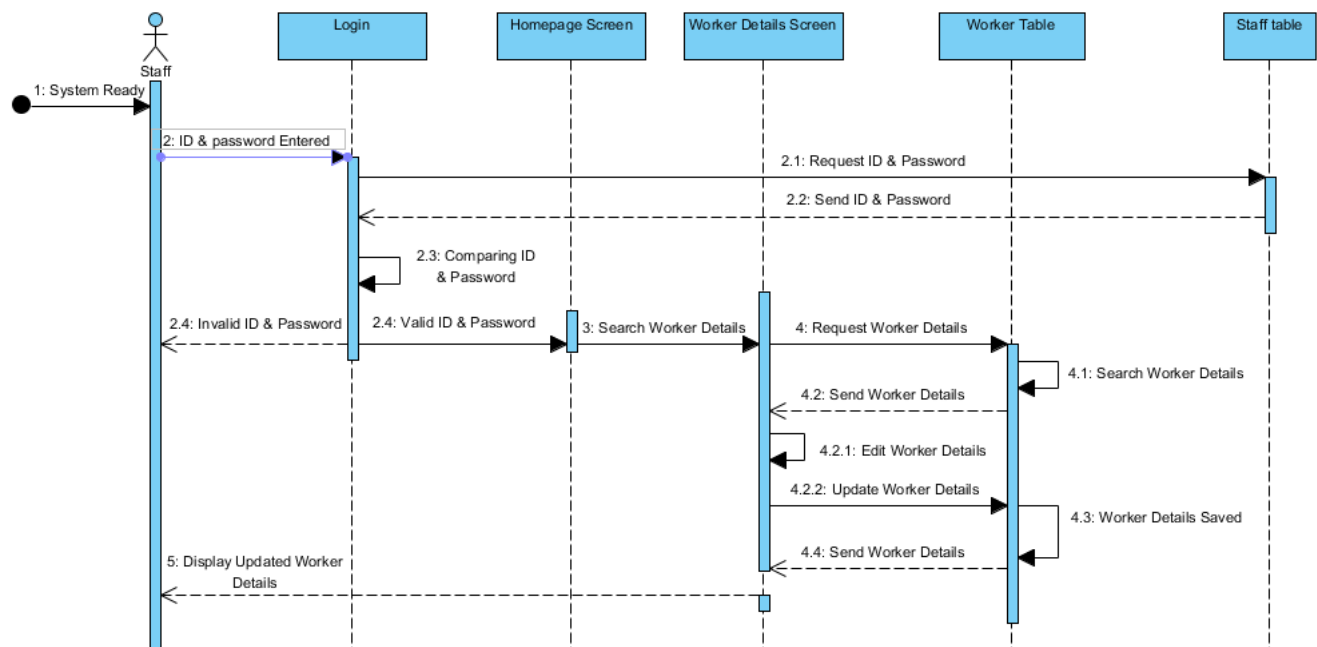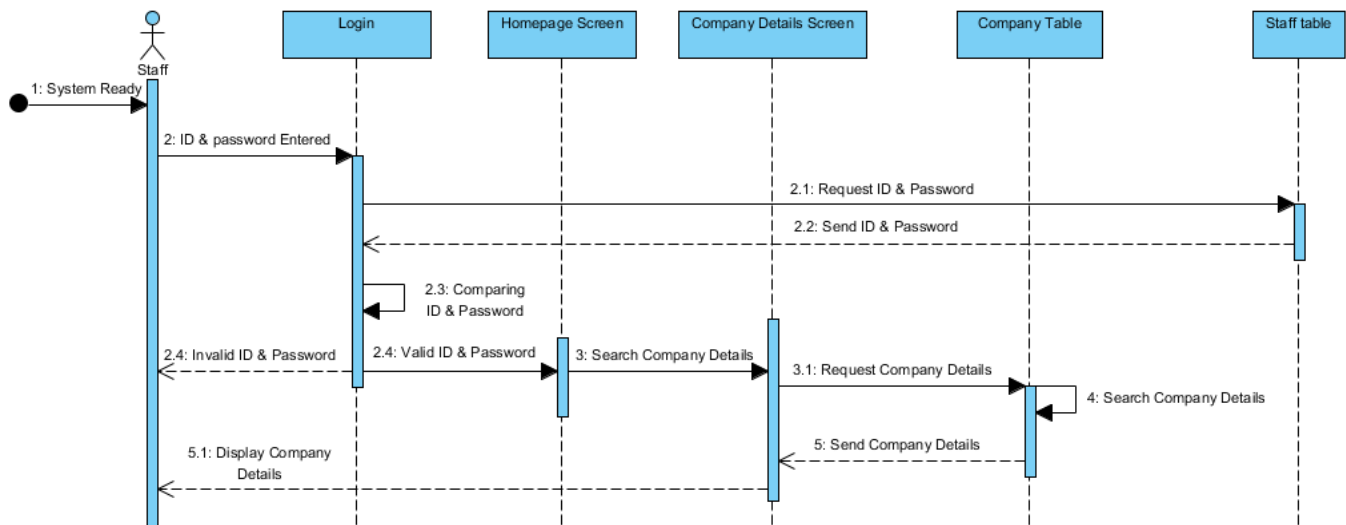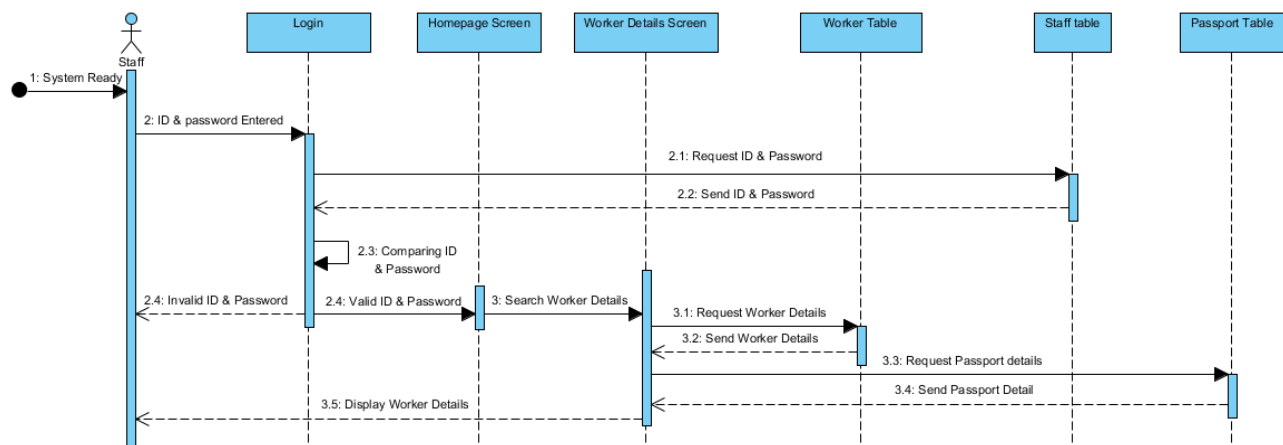5. System will save data to worker table.
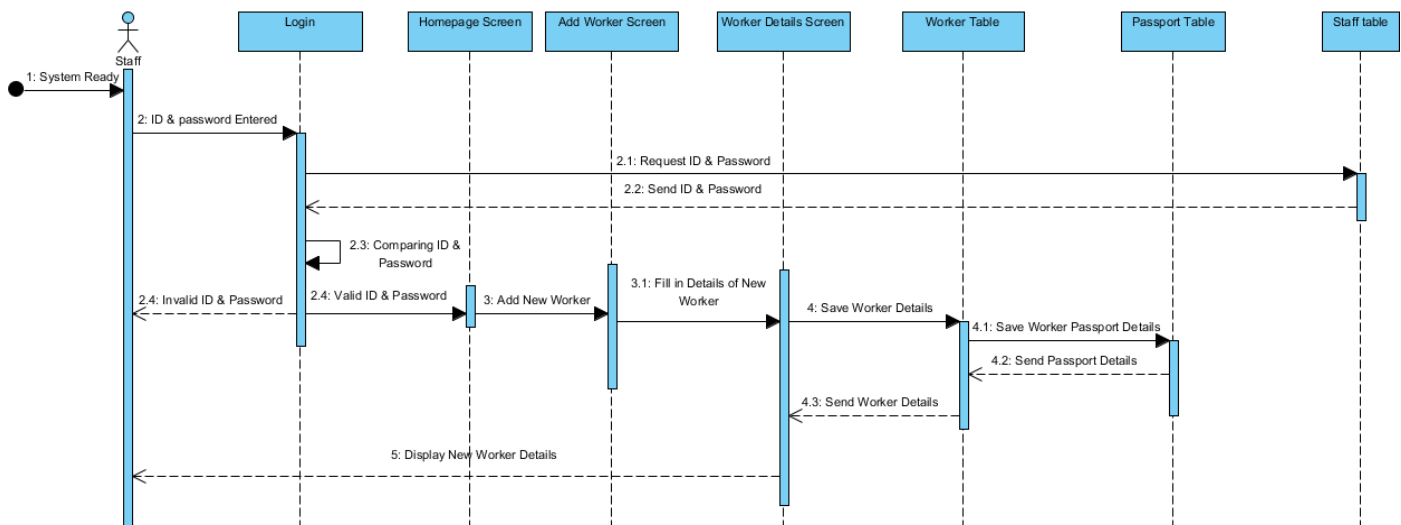
4.2.13 Update Company Detail (Agency Staff)

1. Staff will enter ID and Password into system.

2. The system will retrieve data from staff table and comparing the ID and Password.

3. If ID and Password correct, then system show home page.If incorrect, system back to login.

4. Staff also can select update company details function to update the company details.

5. Staff can enter new company details and select save button to update.

6. System will update the record in the company table.

7. System will display updated data.

4.2.14 Update Worker Detail (Agency Staff)

1. Staff will enter ID and Password into system.

2. The system will retrieve data from staff table and comparing the ID and Password.

3. If ID and Password correct, then system show home page.If incorrect, system back to login.

4. Staff update worker details function to update the worker details

5. Staff can enter new worker details and select save button to update.

6. System will update the record in the worker table.

7. System will display updated details.

4.2.15 View Company Detail (Agency Staff)

1. Staff will enter ID and Password into system.

2. The system will retrieve data from staff table and comparing the ID and Password.

3. If ID and Password correct, then system show home page.If incorrect, system back to login.

4. Staff can select view company details function to view company details.

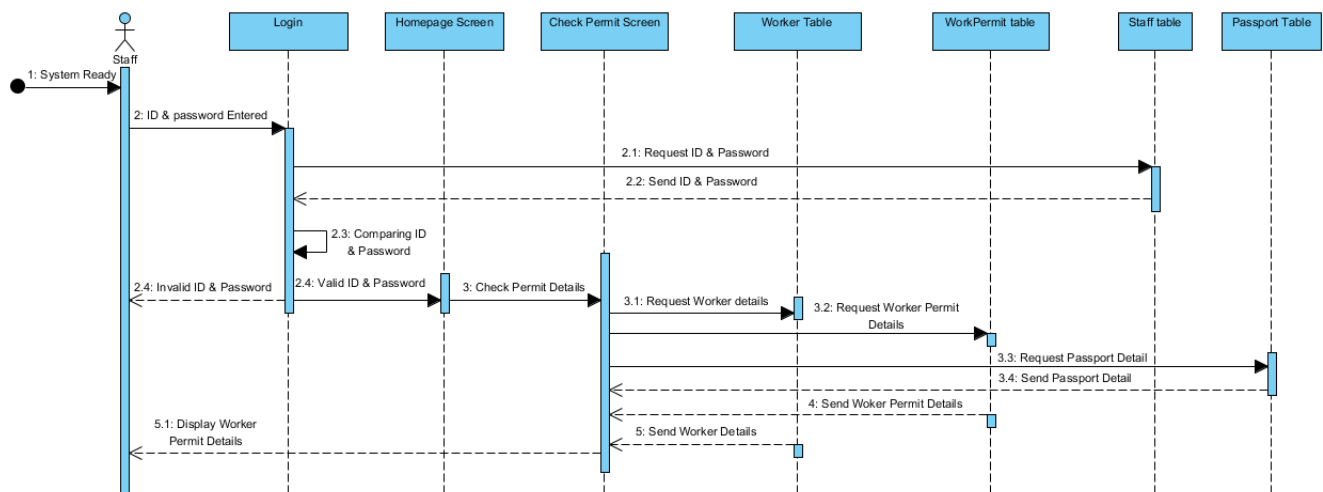5. System will display company details from company table.

4.2.16 View Worker Detail (Agency Staff)

1. Staff will enter ID and Password into system.

2. The system will retrieve data from staff table and comparing the ID and Password.

3. If ID and Password correct, then system show home page.If incorrect, system back to login.

4. Staff can select view worker details function to view worker details.

5. System will display worker details from worker table.

4.2.17 Check Permit Status (Agency Staff)

1. Staff will enter ID and Password into system.

2. The system will retrieve data from staff table and comparing the ID and Password.

3. If ID and Password correct, then system show home page.If incorrect, system back to login.

4. Staff can check permit status function to view the working permit status.

5. System will retrieve data from permit table and display the data in the working permit form.

4.2.18 Renew Permit (Agency Staff)

1. Staff will enter ID and Password into system.

2. The system will retrieve data from staff table and comparing the ID and Password.

3. If ID and Password correct, then system show home page.If incorrect, system back to login.

4. Staff can help customer apply for renew worker permit through renew permit function.
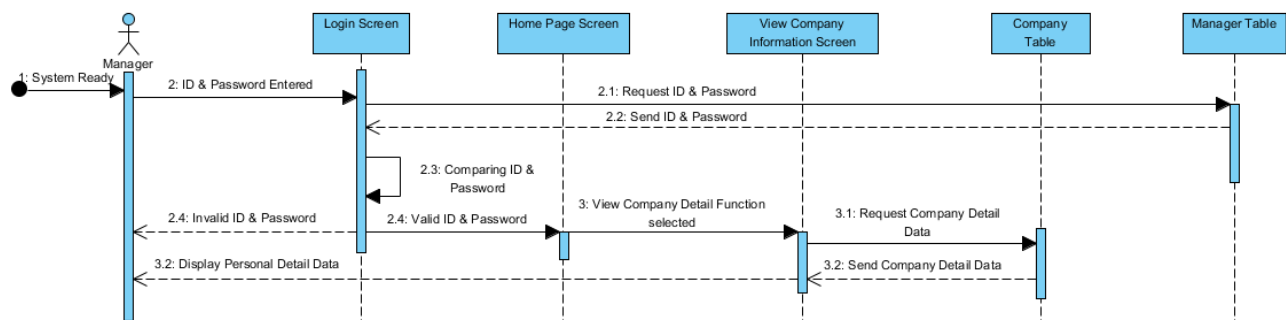
5. Permit table will save the renew status.
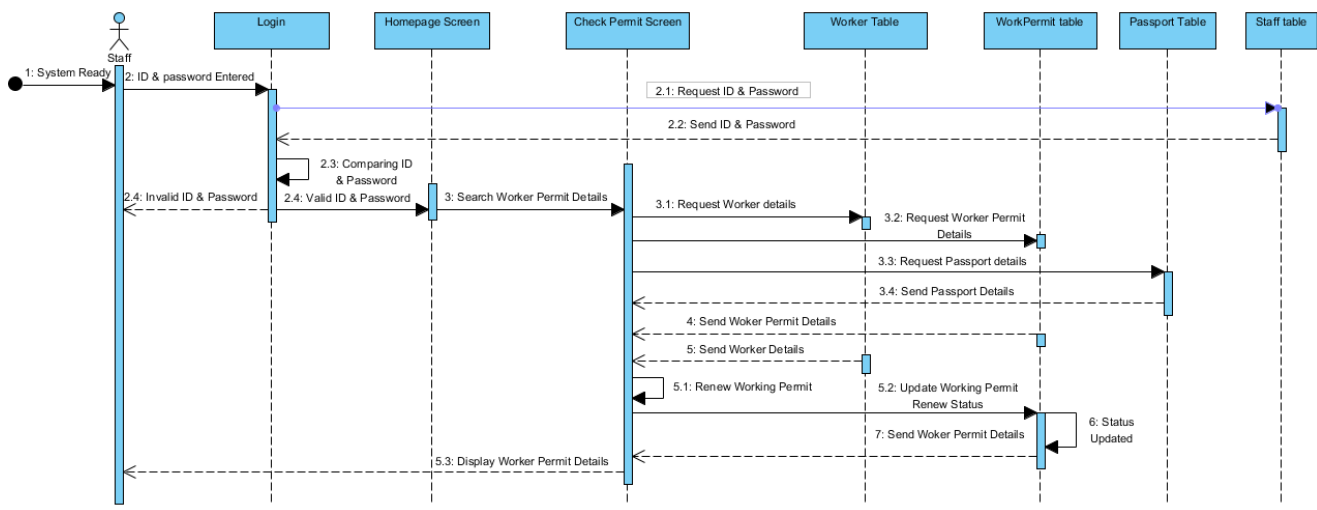
4.2.19 Approve Permit (Manager)

1. Manager will enter ID and Password into system.

2. The system will retrieve data from manager table and comparing the ID and Password.

3. If ID and Password correct, then system show home page ; If incorrect, system back to login.

4. Manager can approve permit and select approve button to update.

5. System will prompt confirm message.

6. Manager can either select yes or no.

7. If yes ,then system will update the permit status in the database ; If no, then the system will back to the working permit detail form.

8. System will retrieve data from workingpermit table and display the data in the working permit detail form.
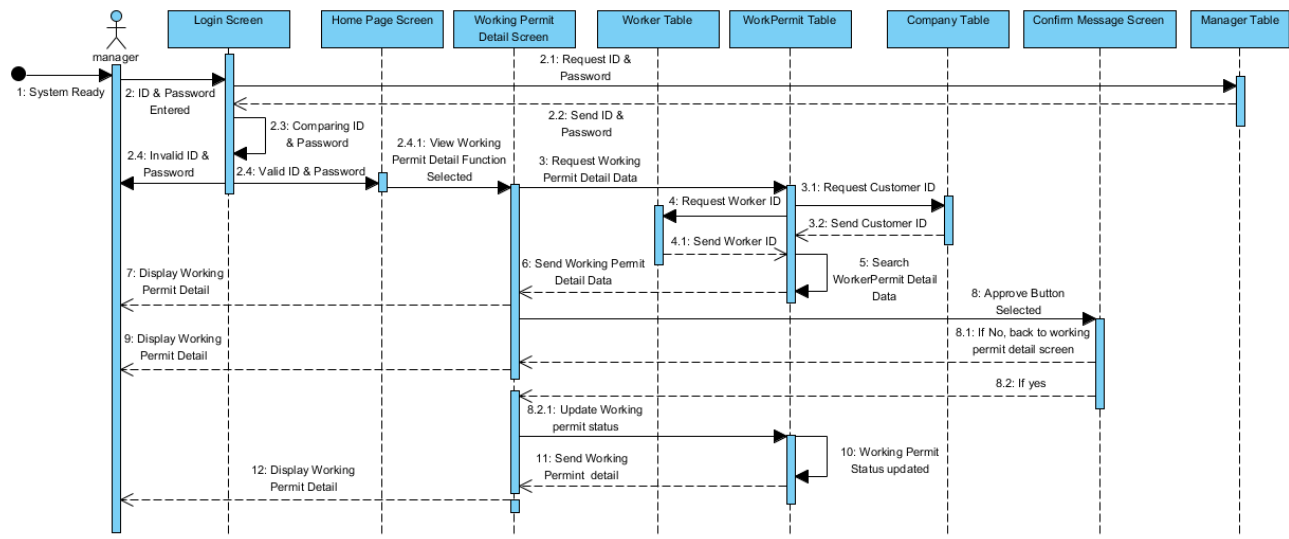
4.2.20 View Company (Manager)

1. Manager will enter ID and Password into system.

2. The system will retrieve data from Manager table and comparing the ID and Password.

3. If ID and Password correct, then system show home page.If incorrect, system back to login.

4. Manager can select view company details function to view company details.

5. System will display company details from company table.

4.2.22 View Worker (Manager)

1. Manager will enter ID and Password into system.

2. The system will retrieve data from Manager table and comparing the ID and Password.

3. If ID and Password correct, then system show home page.If incorrect, system back to login.

4. Manager can select view worker details function to view worker details.

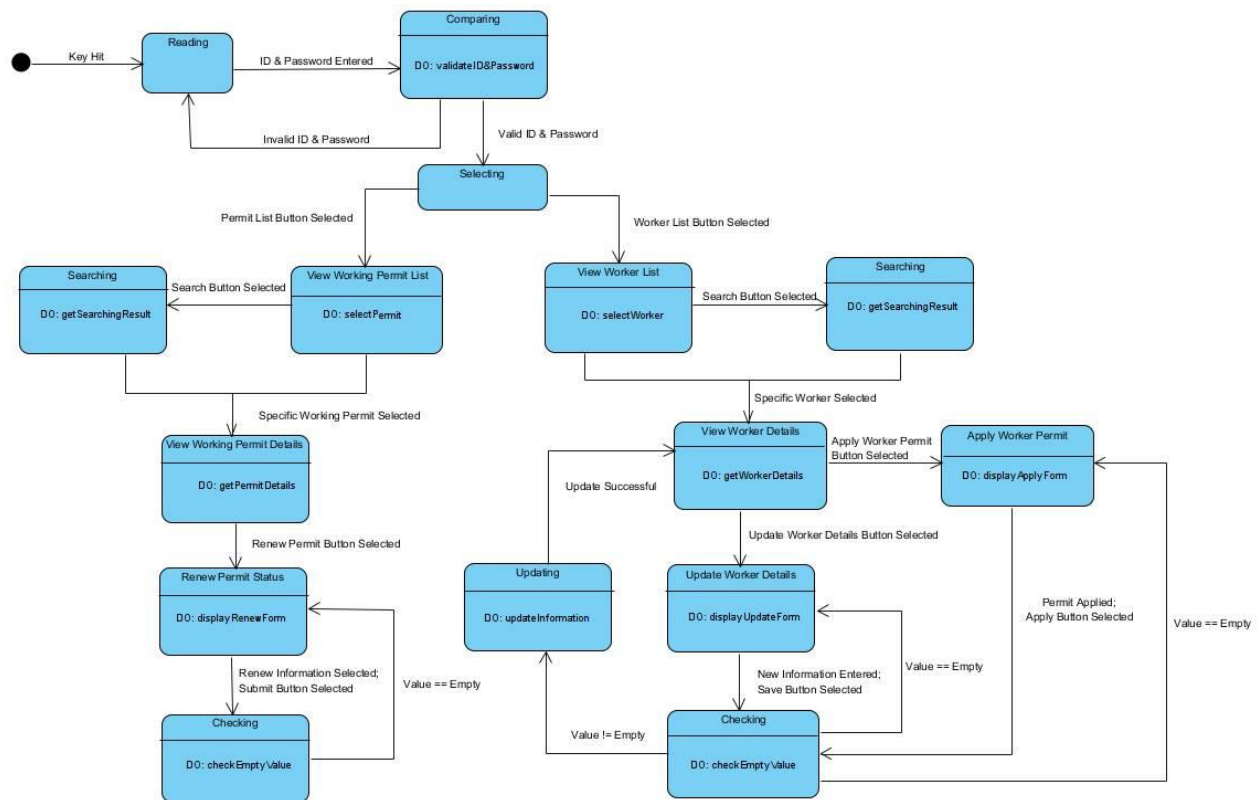5. System will display worker details from worker table.
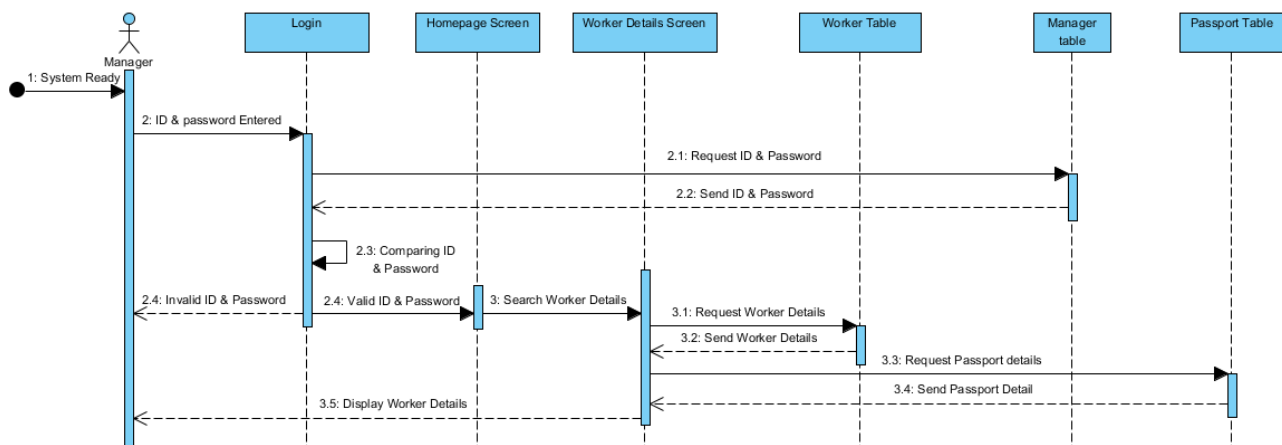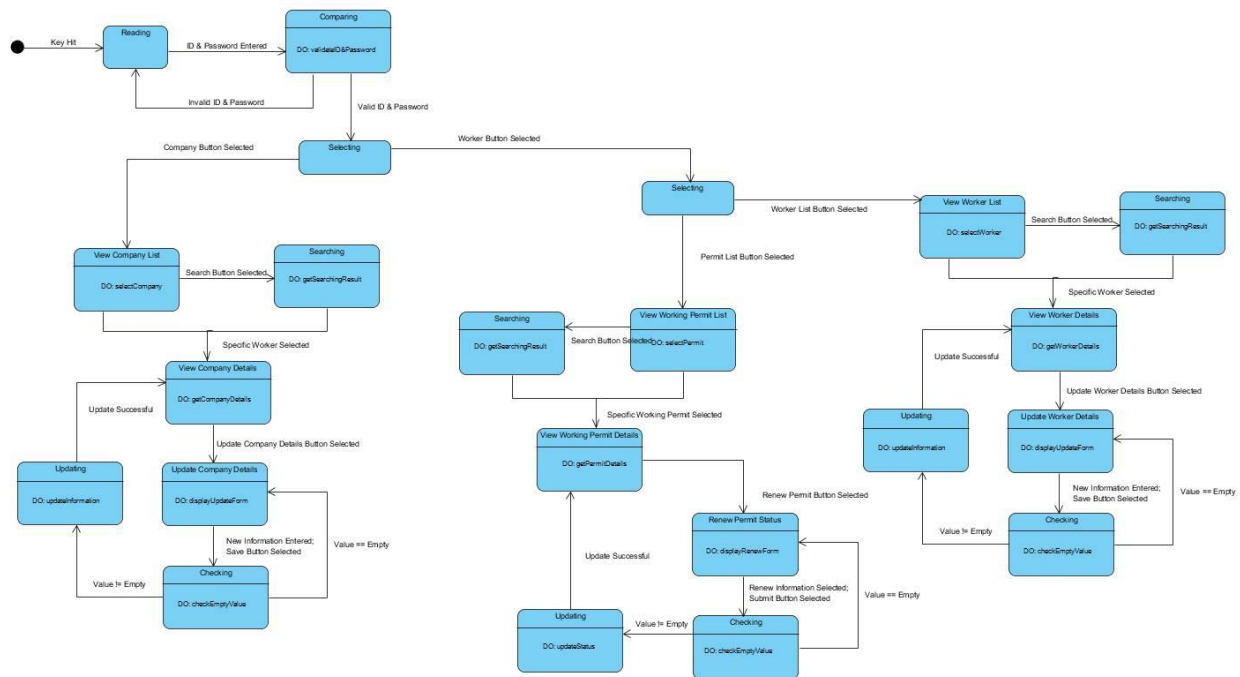
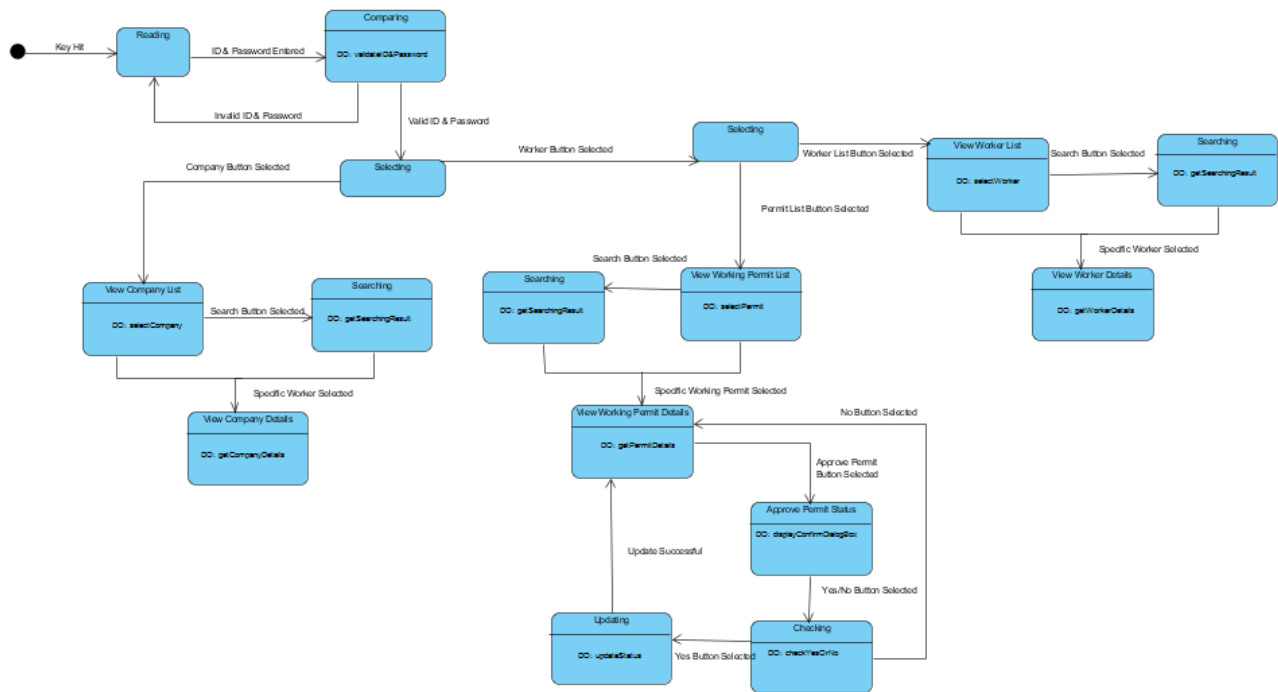# 5 Behavioural Requirements

5.1 State Diagrams
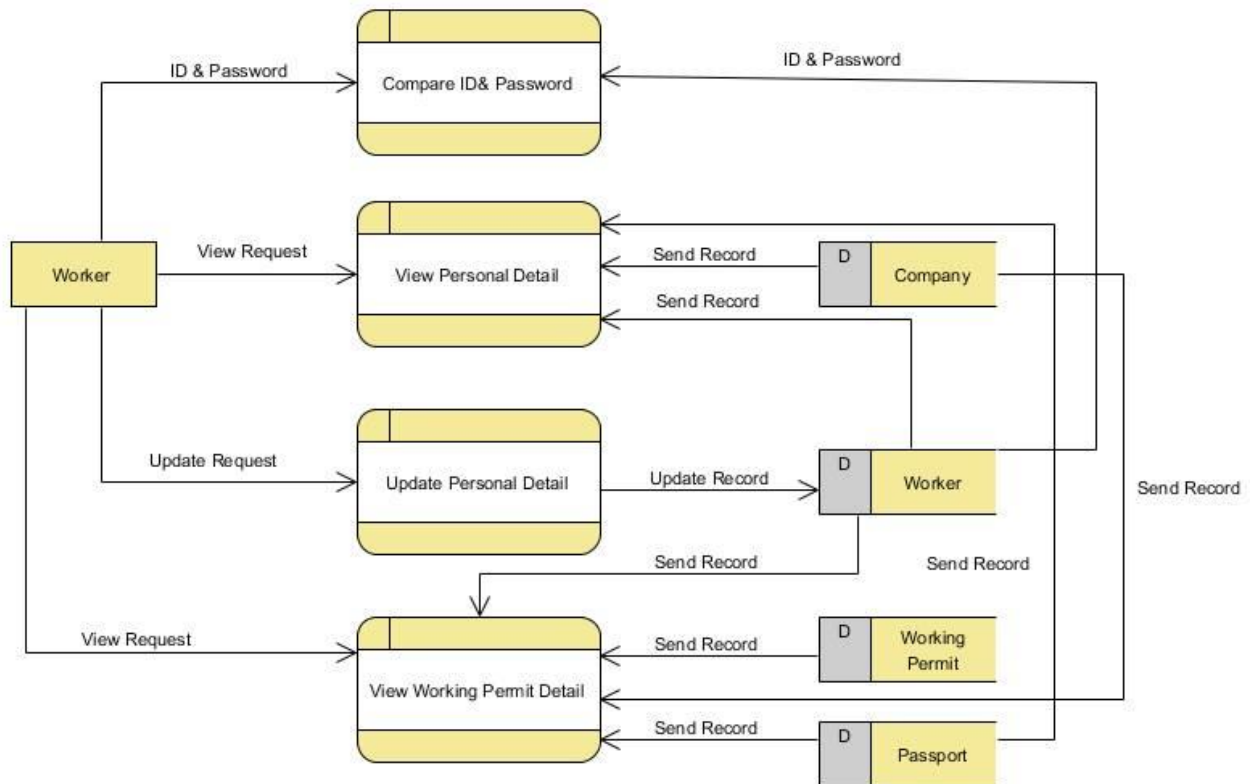
5.1.1 Worker
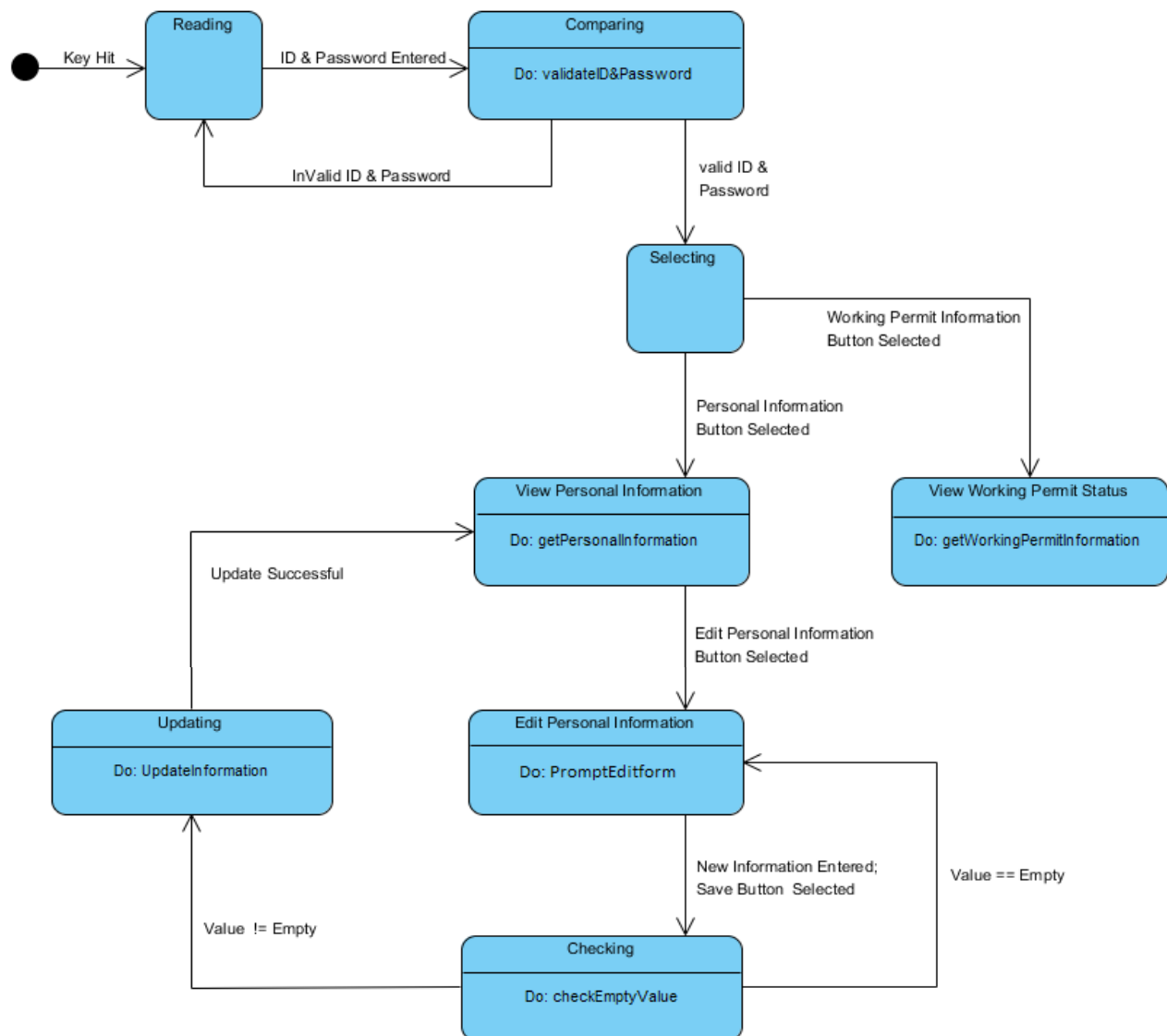
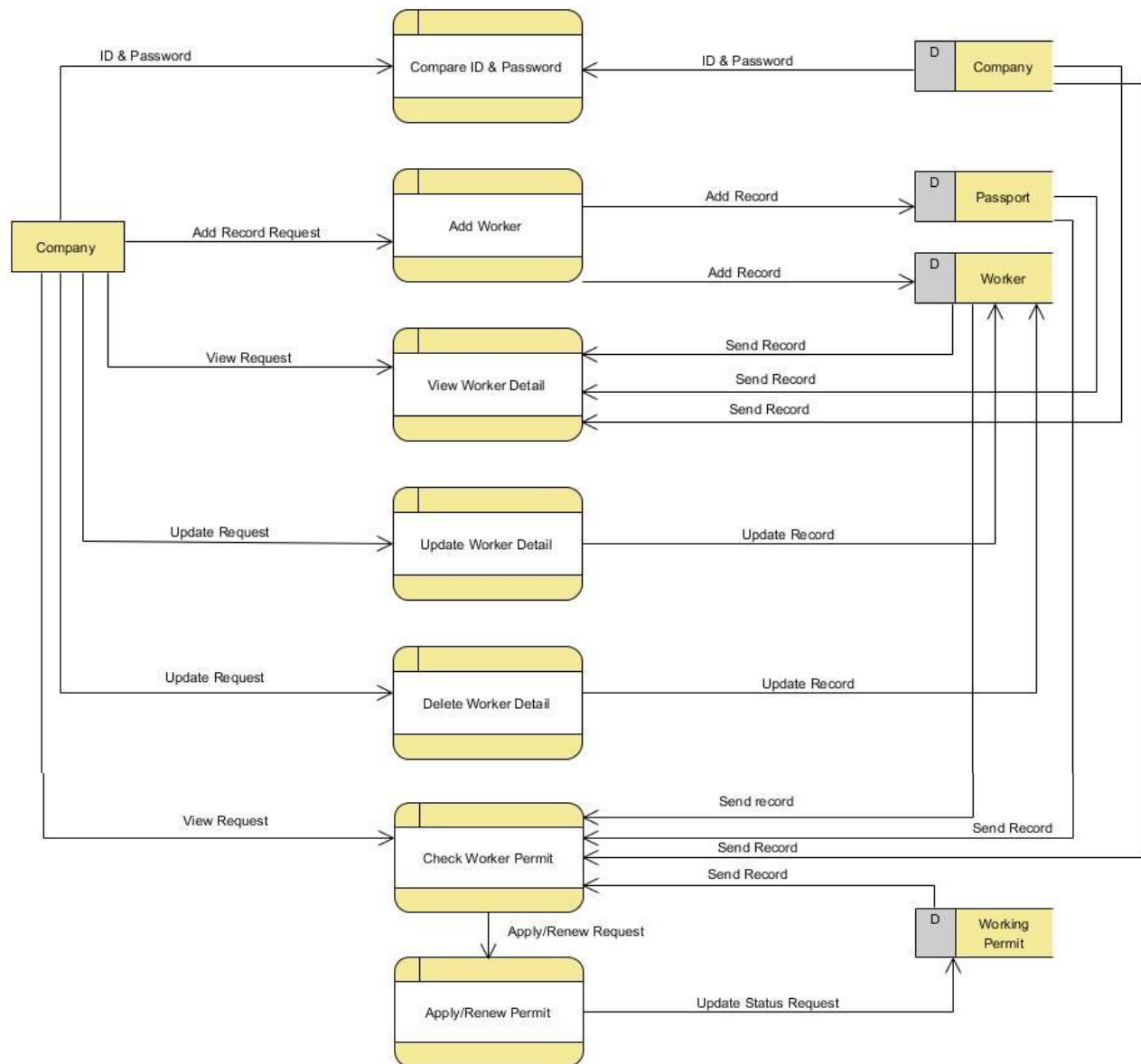## 5.1.2 Company

5.1.3 Staff

5.1.4 Manager

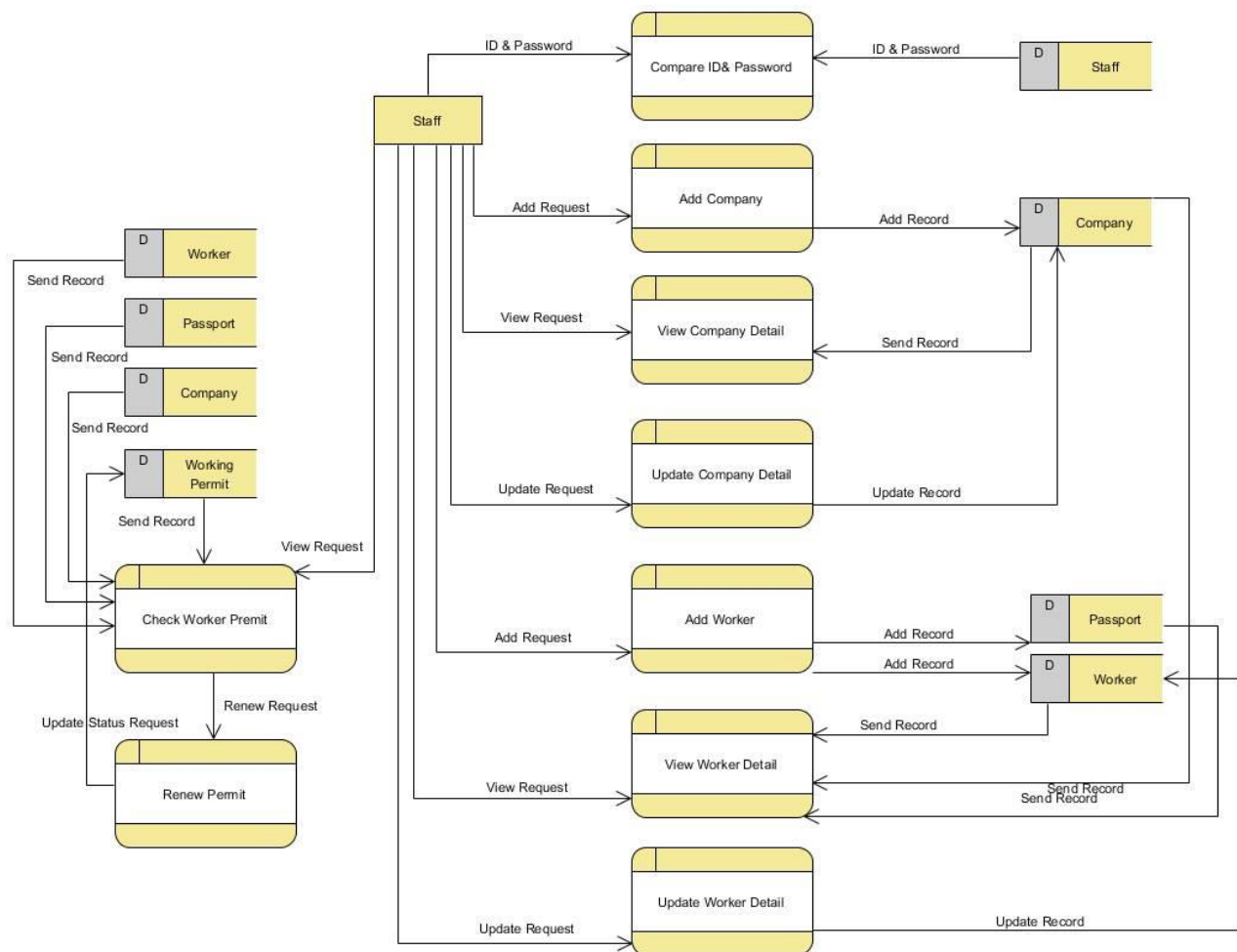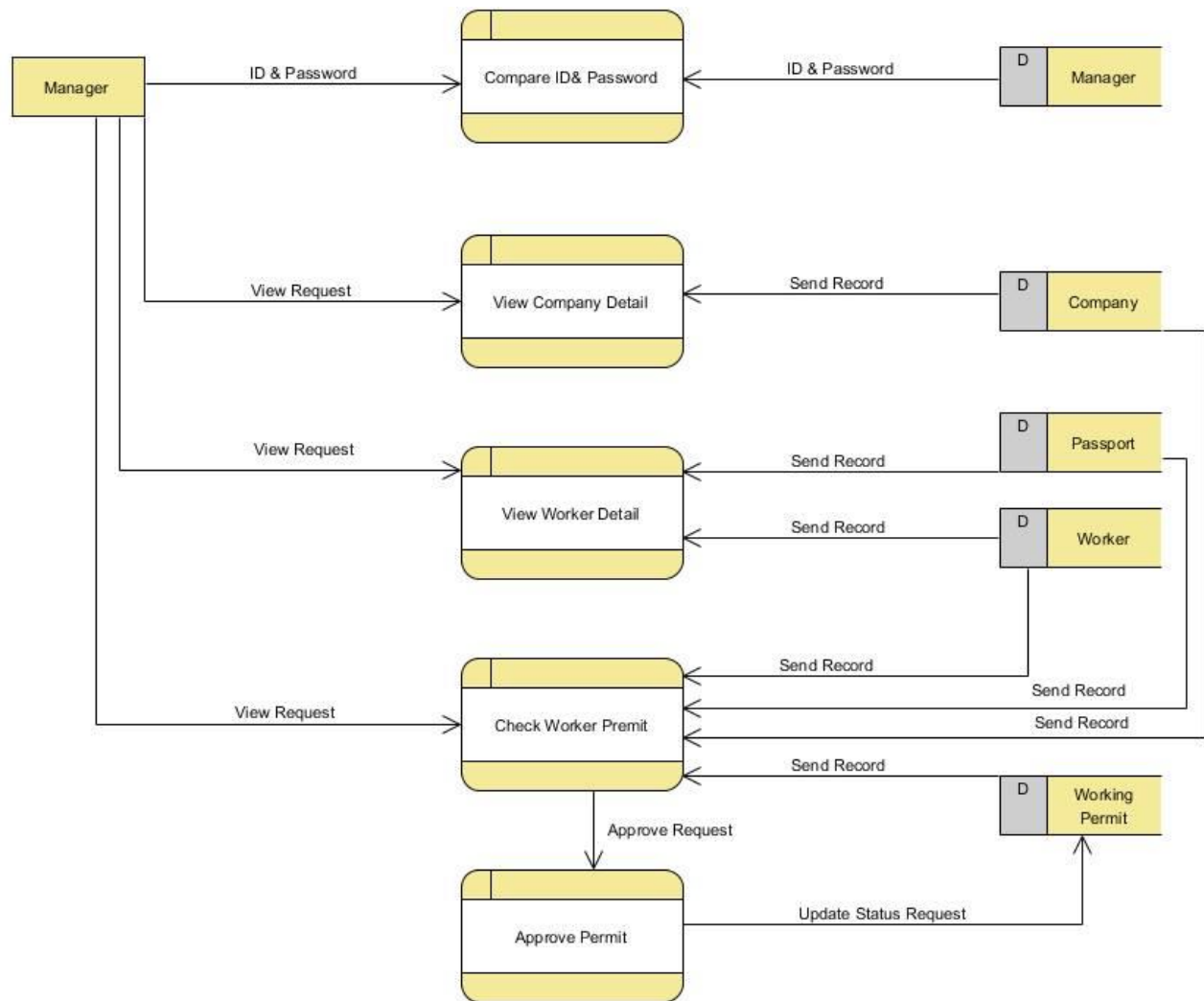## 5.2 Data Flow Diagrams

5.2.1 Worker(Level 0)

5.2.2 Company(Level 0)

5.2.3   Staff(Level 0)

5.2.4 Manager(Level 0)

6 Other Requirements

*<This section is **Optional**. Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.>*