AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH

Assignment on Requirement Collection

Subject: Software Requirement Engineering

Section: B

Prepared by:

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Introduction:

Enterprise resource planning (ERP),which is one kind of process that used by companies to manage and integrate the important parts of their businesses. ERP software applications are very helpful for a company to implement resource planning by integrating all of the processes needed to run their companies with a single system. An ERP software system can also integrate planning, purchasing many inventory, for their sales department, for their marketing, finance , human resources etc. ERP solutions have evolved over the years, and many are now typically web-based applications that's why users can access remotely and very easily. An enterprise resource planning system is one kind of system that combine together the different computer systems for a large company or any organization .For the poultry and frozen food company, ERP will be so much helpful in their business.

Project Plan

PROJECT GOAL:

ERP software is helpful for a business company. Here we will discuss about a ERP based software for a Poultry and Frozen food company . the main goal of this system is work very smoothly by a system because here this system will help at Poultry and Frozen food company 's customers by taking order through online and all activities will be recorded by software. This system will be very helpful for a company because we know it is so much hard for a company to collect data manually but by using this system the work will be very easy. It will be very easy way to collect and save data and very easy to handle customers. This is the main goal of the project.

SCOPE OF PROJECT:

1. Users can easily find their product.
2. Management can easily see database.
3. This system also shows that when customer is ordering the food/product.
4. This system can track the product location.
5. By using system, user can see available quantity of their product.
6. System shows the product list.
7. The system will save all database of order.
8. Users can give review of their food.
9. User can give rating after getting service.
10. User will be able to easily contact with management.
11. User can write massage.

TIMELINE AND METHODOLOGY:

DATE	MILESTONES	GOAL	DEPENDENCES	RESOURCES	OUTCOME
1/02/2021	Analysis on business	Accepting the business	Project manager	Company brochure	Knowledge about the software or system .
3/02/2021	Collaborate with employee	Gather the requirement	Project manager	Workers	Client preferable software build
6-02-2021	Analysis the requirement	Make the project plan	Project manager	Project team member	Planning for whole project that build earlier stage.
9-02-2021	Choose a SDLC	Pass out team work	Project manager	Project developer	Preparing for the system that build by developers.

MILESTONE	RESPONSIBLE	ISSUES	NEW DATE
Analysis Requirement	Project manager	Collect the proper requirement and validate all those requirement and start to work	11/02/2021
Design	Project architect	Design ER-diagram, Class-diagram, Use case- diagram	14/02/2021
Code	Programmer	Implementing coding with java,C#,python	17/02/2021
Test	Tester	Test the quality of this system	17/02/2021

Project Narration:

PROJECT STAKEHOLDERS REGULARITY:

Internal Stakeholder -

Primary Stakeholder

1. Workers.
2. Managers.

Secondary Stakeholder

1. Proprietor.
2. Customers.

External Stakeholder -

Primary Stakeholder

1. Customers.
2. Proprietor.

Secondary Stakeholder

1. Manager.
2. Workers.

CONSTRAINTS & RESTRICTIONS:

CONSTRAINT	ISSUE/SOLUTION
Hardware	For Store information or data system prefer a database to store data. And it have capability to restore data (backup).
Software	This system database and operating system are developed by Microsoft crop. And DIA tool for database design. Software will be allowable only Windows, OS.
Design	System should be user friendly that will help consume more user. And also system should be easy to use, comfortable for user.

IMPERSONATIONS & DEPENDENCIES:

The system will develop for a company called 'Poultry and frozen food'. The system will work for workers, customers and also for manager. Company admin can manage all system process that employees and customers will do and can verify their order also track order from where. Business analysis collect user need, requirement, testing, quality system check and feedback from audience. After software requirement specification project manager reviewing the requirements and list all those requirement and after that working on project. Then releasing 1st iteration .Project manager take project feedback from client and fixing again.

To build a system dependence of project manager, business analysis and developer are do most important rule. For collecting requirement to complete the whole project they do their best. Business analysis collect requirement and (SRE) specify the whole things.

Accomplishments:

- Data server security maintain.
- Repairing all the electrical equipment.
- Accomplish System control or management day by day.
- Update system security up to date.
- Maintain online service management and it's payment system.
- Update system tracking connectivity properly.
- Update system daily based buy and sell information

Project Requirements:

USER REQUIREMENTS:

1. Customer can modify their account like they can edit their profile or delete their account.
2. Customer can have make a deal for buying frozen foods through an appointment.
3. Customer can change the appointment time.
4. Also employees can change the appointment time.
5. Employees can modify their account like they can edit their profile or can delete their account.
6. Manager can manage employees account for salary purposes.
7. Manager can have also manage the appointment.
8. The transaction system will be managed by the manager so that he/she can see all the payment list.

9. All the schedules will be visible to the manger also the manager can see if the employees are doing work on time or not.
10. Updating of the price or giving discount according to the situation will be handled by the manager
11. Customer can also give feedback.
12. Customer can search for the required product
13. Customer can message live through the system

FUNCTIONAL REQUIREMENTS:

1. The system will manage the sell department and The Sales system should allow users to record customers' sales.
2. The system will provide an employee management here all the the employees and customer account can be visible by the managerial employee.
3. The system will manage of Scheduling the delivery and cancellation.
4. The system will have the access of financial department
5. The system will have the access of employee management
6. All the budget and sells department will be accessible through the system.
7. This system will give the individual profile of customer and employees
8. The system will give aces the revenue data only to the Managerial level employees.
9. The system will provide the access of Payroll Management of employees
10. The system will give the access of Quality ensuring management where food quality will be tested.
11. The system will give a customer management where all the orders and feedbacks will be managed.
12. The transaction and bank related work will be managed
13. The required certifications and document will be accessible by the system
15. The system can manage the booking system or denying the order.
16. The system will provide a customer care option.

NON-FUNCTIONAL REQUIREMENTS:

- The system will provide all the Performance requirements.
- The software will provide Reliability requirements like Backup and restore for the software.
- The System shall be capable of providing transaction logs, error logs and audit trails for pertinent scheduling transaction.
- The system will provide all the safety requirements like secure messaging.
- The system will manage the verification and validation requirements for the software.
- The software quality requirement will be managed by the system.
- The System shall display appointment time and schedules.
- The system will provide portability and maintainability requirements for the software.
- The System shall be usable for different browser and platform.

SYSTEM REQUIREMENTS:

MINIMUM REQUIREMNTS -

1. **OS:** Windows 8/9/10/10 pro.
2. **CPU:** Intel or AMD processor with 64-bit/32-bit support.
3. **Disk Storage:** 4 GB of free disk space.
4. **Ram:** 4 GB.
5. **Internet: :** good Internet connection will required for using the software

USER INTERFACE REQUIREMENTS:

- Information on the screen of the user's monitor shall be presented in a window. Windows shall be adjustable in size and location, but shall have a default size and location
- The Command Toolbar shall always be displayed to the user.
- The system shall provide multiple language The Help Window shall allow the user to request and display help information
- The Help Window shall allow the user to request and display help information
- The system shall provide a uniform look and feel between all the web pages.
- A maximum of 4 font sizes shall be used in the user interface.
- User login shall be controlled by the operating system

CHANGE MANAGEMENT:

Requirement change is one of the big problem for a project but sometimes it is very necessary for customer's requirement change because customers change their minds for many reasons. That time a software company face many problem and also sometime it is reason of a failure project .to remove this problem in software project there are some requirements change management models had been proposed. Because requirements change frequently we need a streamlined, flexible approach to requirements change management.

RISK MANAGEMENT:

Software Risk management means that find out the technical, programmatic and process risks. It is a part of plan. The project manager monitors risk during the project.If they can find out some possible risk early , it will be more helpful to reduce risk. In a project risk management is balance of risk. The purpose of risk management is in the project what is going to wrong, why is it wrong, how can solve those problems.

There are some risk areas are:

1. Tight schedule
2. Budget change
3. Technical difficulties
4. Poor management
5. New technologies
6. Human risk
7. Location and geographical risk
8. Strategic risk
9. Operational and management risk.
10. Poor quality code
11. Poor productivity.
12. lack of ownership.
13. Inaccurate estimation.
14. Scope variation.

Project manager can plan their risk management in four category.

1. Risk identification.
2. Risk quantification.
3. Risk response.
4. Risk monitoring and control.

Risk management process:

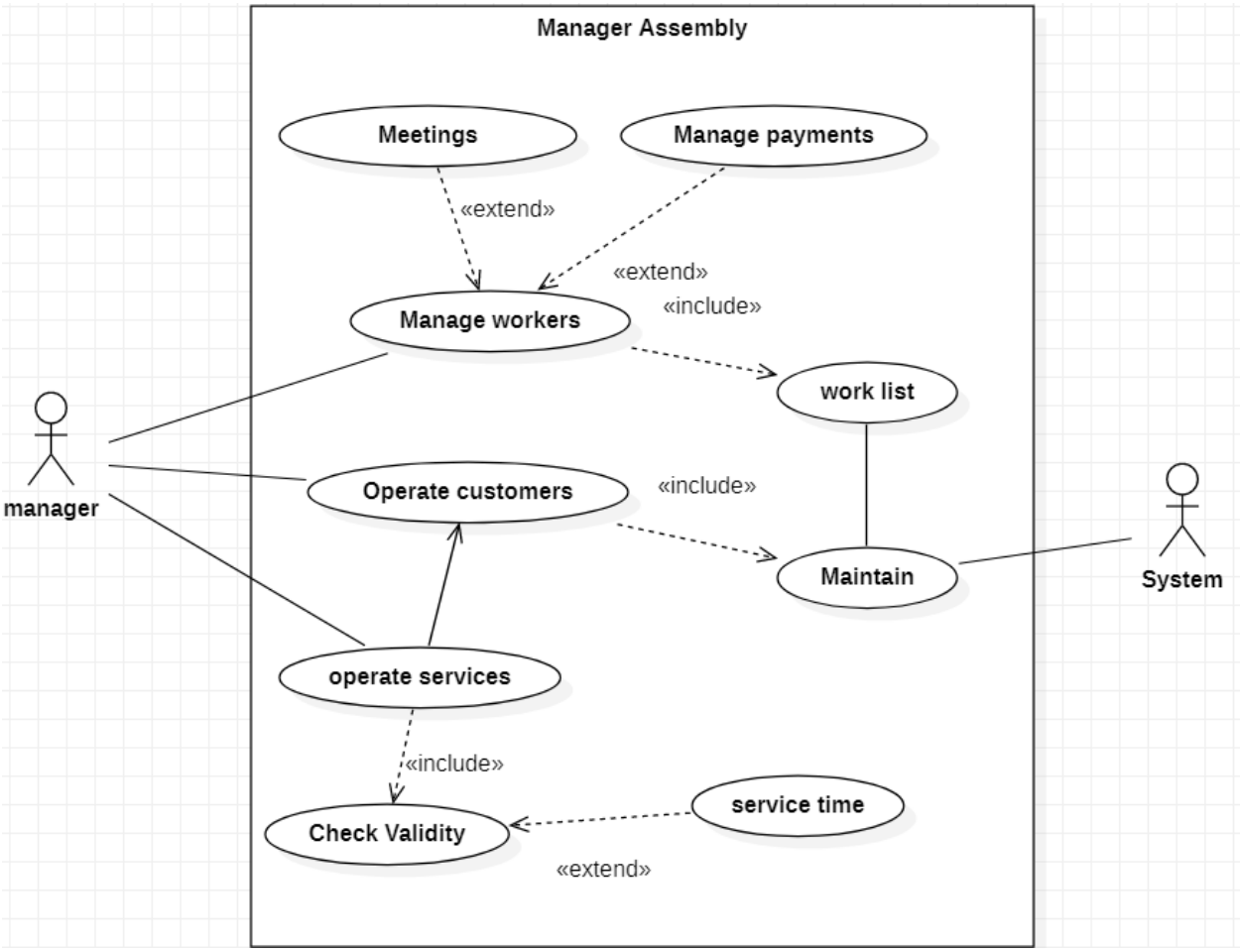
1. Each person who are involved in the project , need to plan , identify and understand about the risk.
2. All team members will submit the possible risk list then after get all members risk list final list will be make.
3. Find out the impact of the risks.
4. Divide the team into sub team where each group will identify the triggers that lead to project risks.
5. Then they will plan how to reduce risk.

Testing & Appreciation:

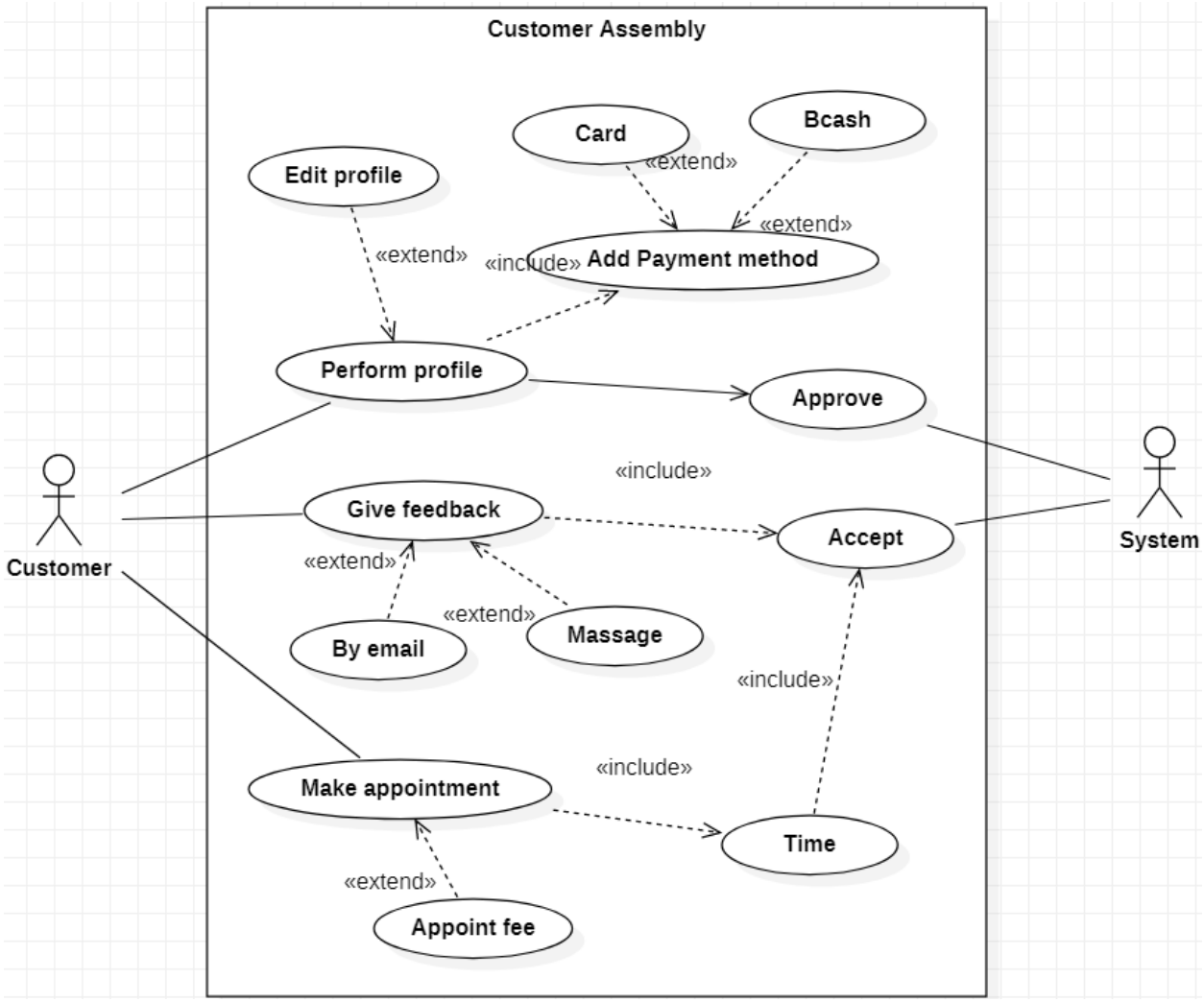
- **TEST #1**
  - **Objective:** Testing The Sign up interface to create an account.
  - **Artifacts:** Sign up session.
  - **Users:** Mahiul.
  - **Tasks:** User need to press sign up button to reach account create page and fill all the information that system automatically ask for. After that successfully account will be create.
- **TEST #2**
  - **Objective:** Testing can user select his preferable product in this system.
  - **Artifacts:** Product item selection session
  - **Users:** Mahiul.
  - **Tasks:** User need to go product selection page and select his/her preferable goods and also add his shopping cart for pay.
- **TEST #3**
  - **Objective:** Testing that can user perform payment after buy any product from his selection cart.
  - **Artifacts:** Payment section.
  - **Users:** Mahiul.
  - **Tasks**: User need to go his cart section page and fill his bill amount that his product cost and press okay .After that his payment will successfully reach.

Use-case Diagrams:

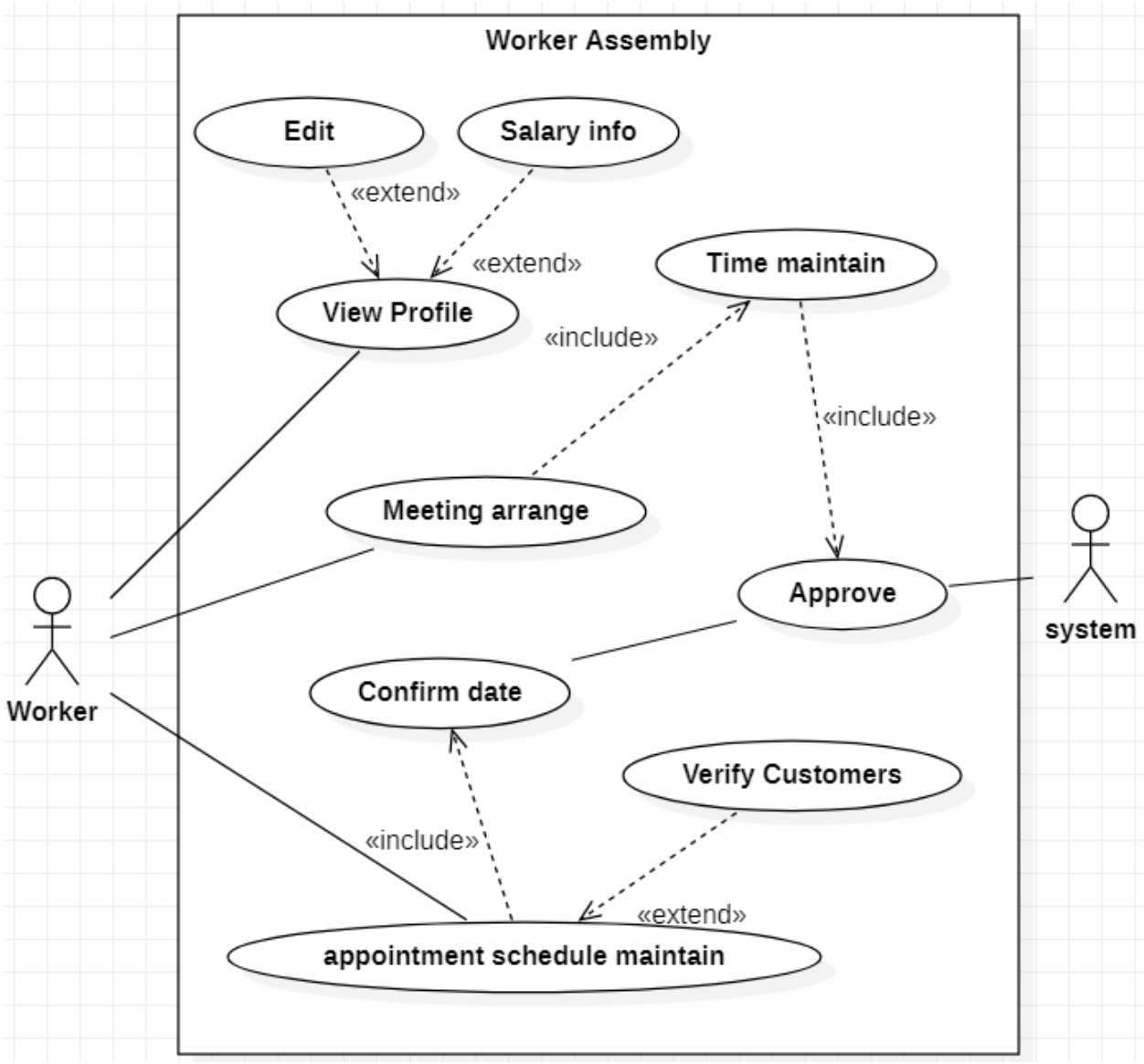
Manager Assembly:



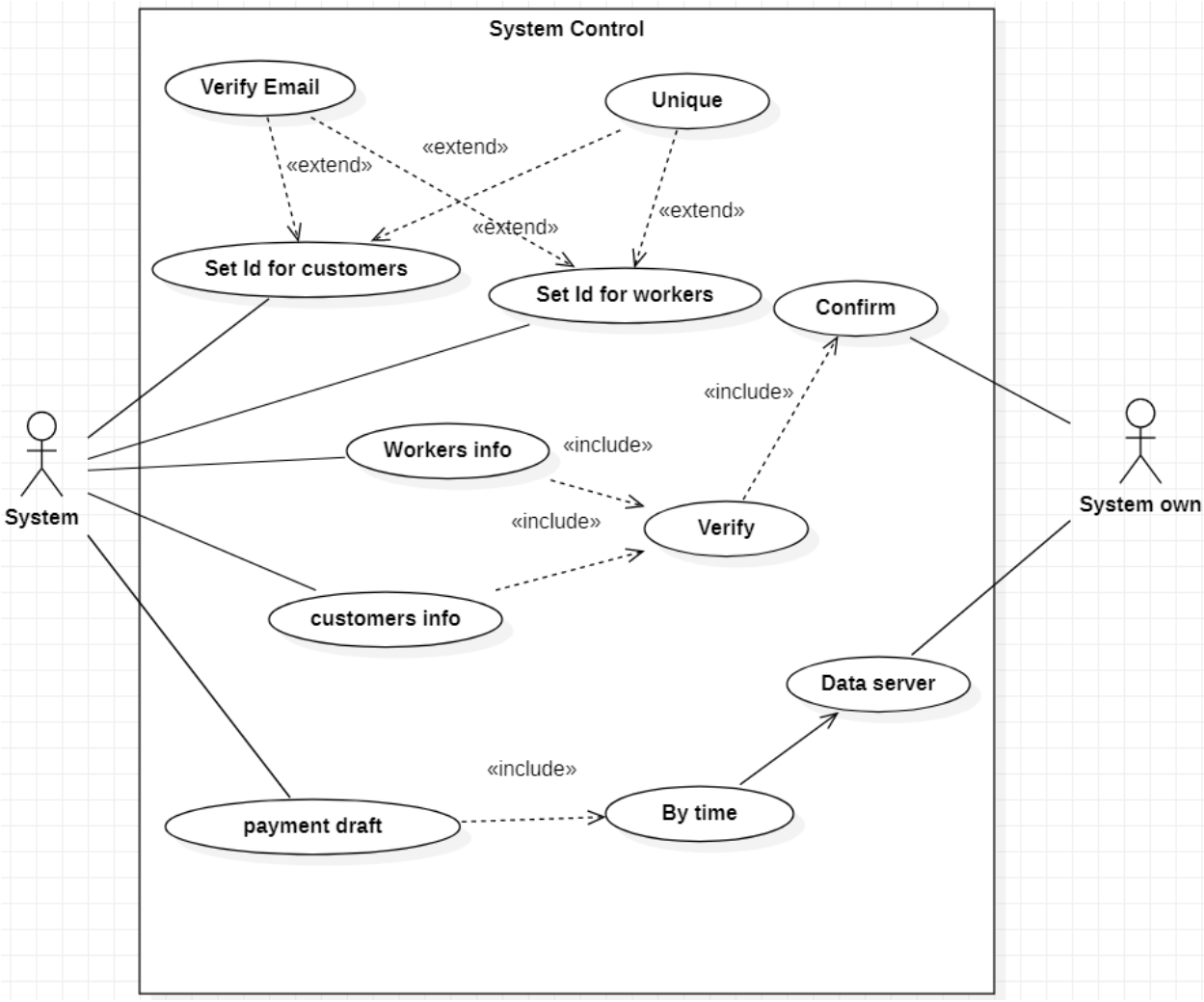
Customer Assembly:



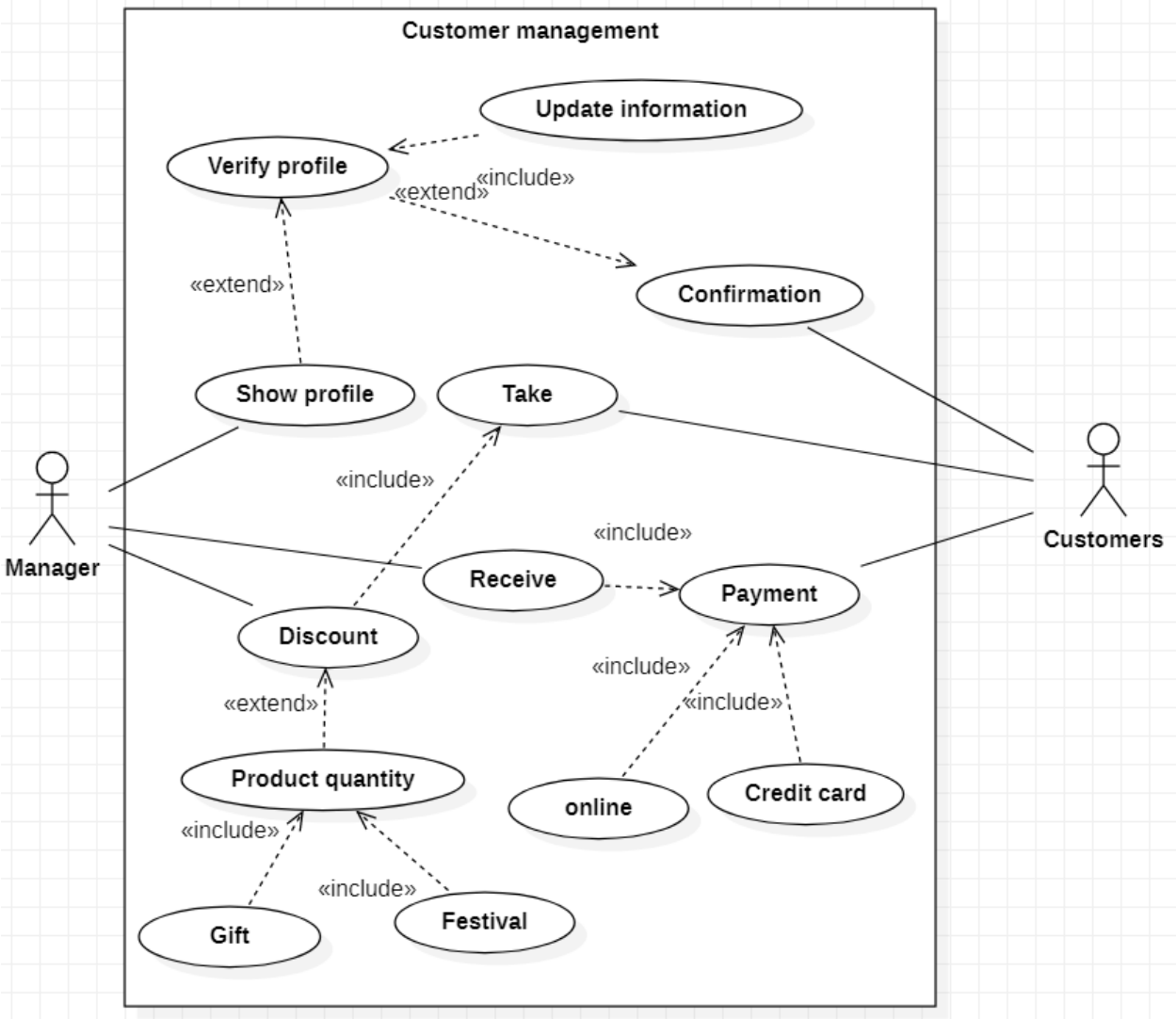
Worker Assembly:



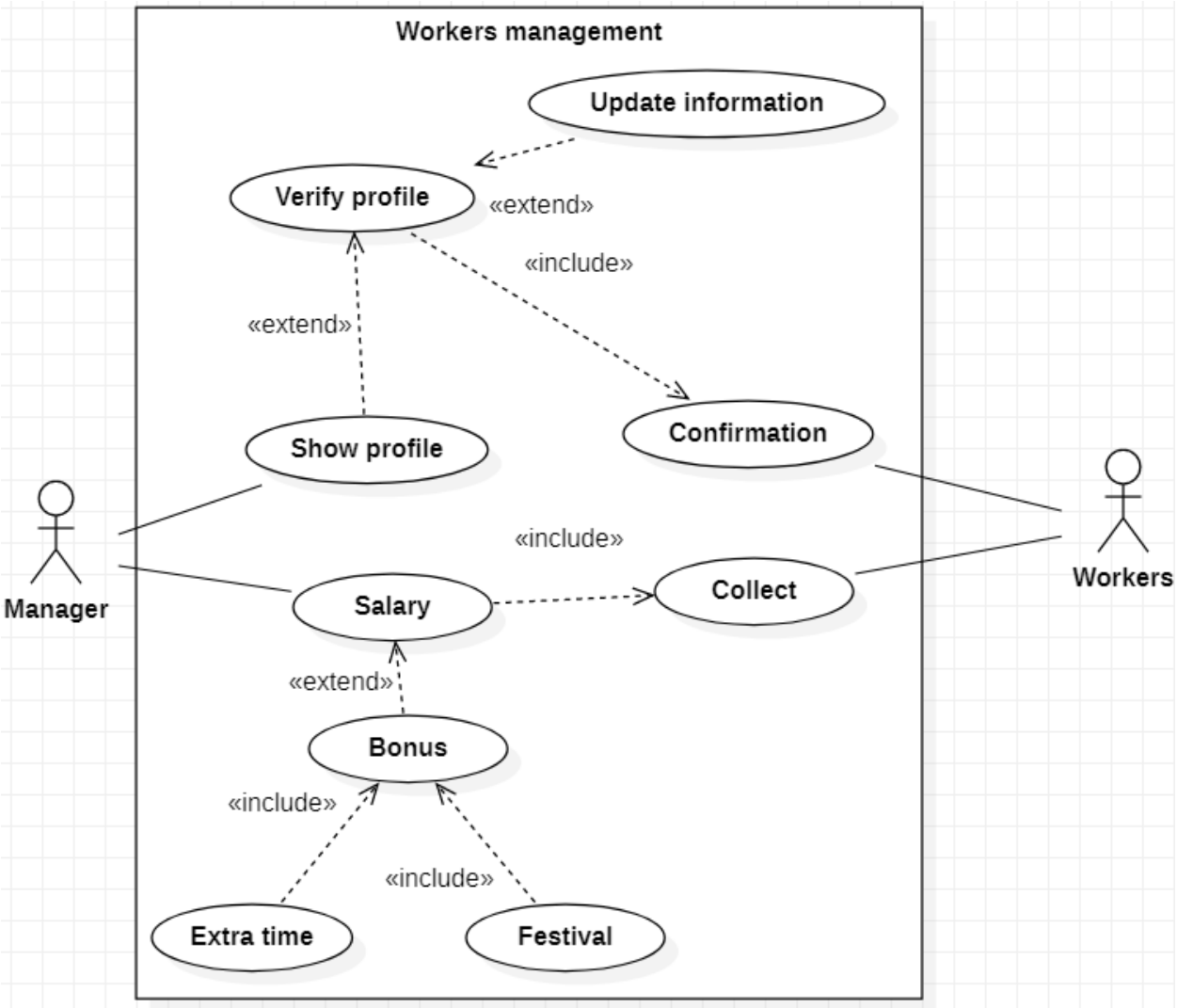
System Control:



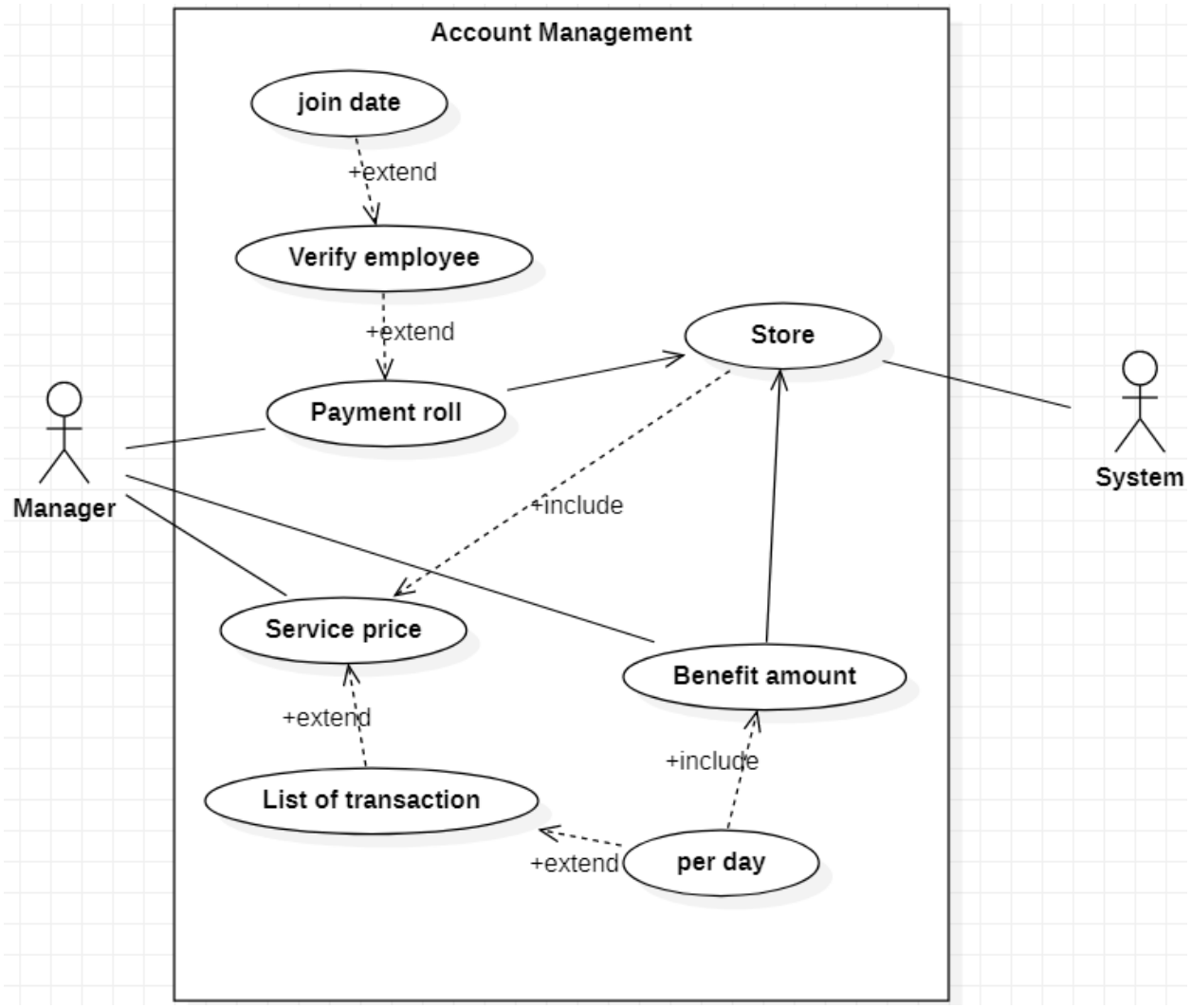
Customer Management:



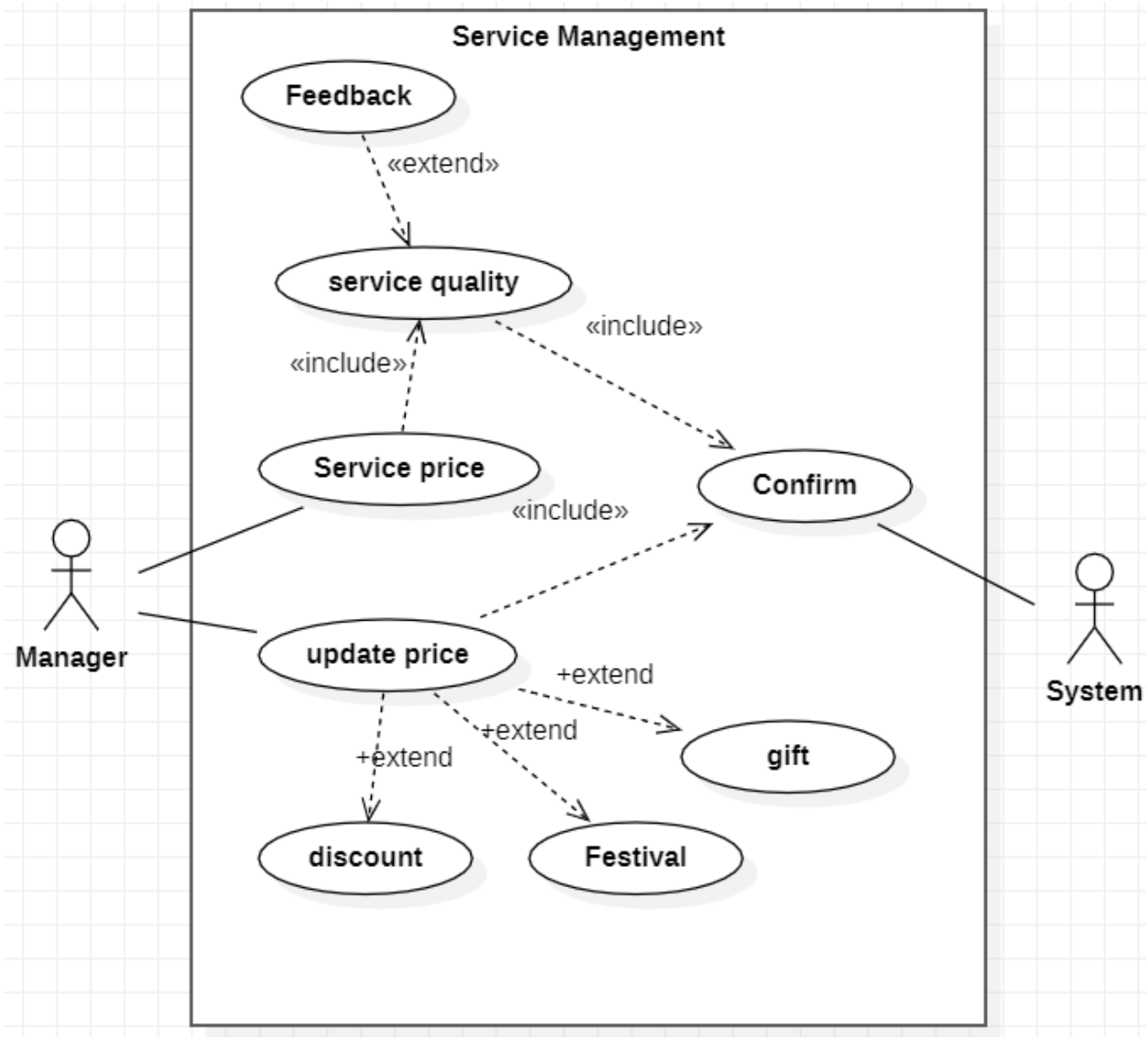
Worker Management:



Account Management:



Service Management:



Conclusion:

Using ERP, we can assuredly automate the company and reach the company to their excellence. There are as many reasons for successful ERP implementations as there are for failed projects. However, success seems too often be measured by whether or not the project came in on time and under budget. Whereas, fully utilizing the system to achieve improved business practices appears to be ignored. Performance measures must be developed and standardized to give organizations a clearer picture of the benefits derived from Enterprise Resource Planning implementation.

Accessory:

REFERENCES:

https://www.altexsoft.com/whitepapers/quality-assurance-quality-control-and-testing-the-basics-of-software-quality-management/