

**A Web-Based Cold Storage Maintenance and Employee Assignment Management
System for Asia Cold Storage Corporation**

**A Capstone Project Proposal
Presented to the Faculty of the
Bachelor of Science in Information Technology Program
STI College Las Piñas**

**In Partial Fulfilment
of the Requirements for the Degree
Bachelor of Science in Information Technology**

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May 24, 2025

ENDORSEMENT FORM FOR PROPOSAL DEFENSE

TITLE OF RESEARCH: A Web-Based Cold Storage Maintenance and Employee Assignment Management System for Asia Cold Storage Corporation

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In Partial Fulfilment of the Requirements
for the degree of Bachelor of Science in Information Technology
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This capstone project proposal titled **A Web-Based Cold Storage Maintenance and Employee Assignment Management System for Asia Cold Storage Corporation**, prepared and submitted by **Joseph Mark Angelo U. Boyagon, Shyler C. Alemania, Luis Rafael A. Lopez and Mark Leonelle B. Duerme**, in partial fulfillment of the requirements for the degree of Bachelor of Science in Information Technology, has been examined and is recommended for acceptance and approval.

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INTRODUCTION

Project Context

In industries like logistics, food processing, and retail, keeping perishable goods safe and fresh isn't just a preference, it's a necessity. Cold storage plays a key role in making this happen by creating controlled environments that help extend the shelf life of temperature-sensitive products. As customer expectations for freshness and fast delivery continue to rise, businesses are relying more than ever on cold storage systems that are both reliable and efficient.

Asia Cold Storage Corporation has become a trusted name in this field. Based in Las Piñas, Philippines, the company designs and builds cold storage refrigeration systems tailored to the needs of industries like logistics, retail, and food production. Beyond just manufacturing these systems, they also take care of ongoing maintenance and servicing, making sure everything continues to run smoothly for their clients. With additional branches in Cebu and Davao, the company is able to serve different parts of the country. Most of their 52 employees work from the Las Piñas headquarters, while Cebu and Davao have 3 and 4 team members respectively. When needed, employees from Las Piñas are temporarily assigned to Cebu or Davao for specific projects that require more hands on deck.

The services team at Asia Cold Storage is skilled in handling a wide range of tasks. They manage installations, re-installations, dismantling jobs, repairs, and routine check-ups. The number of people and time required often depends on the size of the cold storage unit or the specific issue being addressed. For example, check-ups typically need two to three people, while installation or dismantling might need more, depending on the scale of the unit.

Despite their strong technical skills and dedication, the company still manages many of its day-to-day operations manually. Maintenance schedules, repair requests, and team assignments are often coordinated through phone calls, text messages, or in-person conversations. As a result, things can get missed, duplicated, or delayed. Maintenance records and material requests are usually written down by hand or tracked using spreadsheets, which makes it difficult to monitor performance over time or generate useful reports. This lack of structure sometimes leads to unclear task ownership and inefficiencies, even though the team is more than capable.

Managing employees also has its own set of challenges. Attendance is recorded manually, and there's no centralized system to assign daily tasks or track how well teams are performing. This makes it hard for managers to monitor productivity or spot areas where people are excelling or where improvements are needed. On top of that, customers currently don't have a way to evaluate the team's performance, which means valuable feedback that could help the company grow often goes unheard.

To help solve these issues, this capstone project proposes building a Web-Based Cold Storage Maintenance and Employee Assignment Management System tailored specifically for Asia Cold Storage Corporation. The goal is to move away from manual processes and bring everything into a single, easy-to-use digital platform. The system will handle automated scheduling of maintenance tasks, real-time logging of activities, material request approvals, and employee monitoring. It will send notifications to staff when new tasks are assigned, when something's overdue, or when approvals are needed, helping to keep everyone on track.

One of the most valuable features will be the ability for customers to leave feedback and rate the team's performance using the team leader's device, which will be provided after the job is done. This will not only encourage accountability but also give managers real insight into how their teams are doing from the client's perspective.

According to Nozari et al. (2025), adopting AIoT (Artificial Intelligence of Things) in cold chain systems significantly reduces operational costs while improving reliability. Their study shows how intelligent monitoring, predictive maintenance, and smart task assignment can enhance service efficiency and response time in refrigeration logistics. The findings confirm that digital systems allow companies to track cold storage performance in real-time and act proactively before issues escalate. This approach leads to improved decision-making and reduced downtime critical elements for companies like Asia Cold Storage Corporation. The study strongly supports the shift to intelligent digital platforms for long-term competitiveness and service quality.

According to Wang et al. (2024) emphasized that digital transformation using IoT technologies improves cold chain operations by enhancing traceability and reducing product spoilage. Their research on fresh agricultural product logistics found that real-time tracking and centralized data systems contribute to more efficient operations and higher customer satisfaction. The study recommends that businesses implement intelligent systems to manage cold storage environments, team coordination, and maintenance planning. These improvements are vital to meet the rising demands for food safety, delivery speed, and transparency in operations. Their findings reinforce the value of this capstone system's design, aligning with industry-wide efforts to modernize infrastructure and optimize resource use.

By going digital, Asia Cold Storage Corporation can reduce human error, respond faster to service needs, and use their people and resources more effectively. The system will also make it easier for the company to track maintenance history, prevent breakdowns before they happen, and ultimately improve their service across all branches. With better tools in place, the company will be well-positioned to continue delivering high-quality cold storage solutions while growing and staying competitive in a fast-paced, quality-driven industry.

Purpose and Description

The main goal of this capstone project is to create a Web-Based Cold Storage Maintenance and Employee Assignment Management System designed specifically for Asia Cold Storage Corporation. Right now, many of the company's day-to-day processes like scheduling maintenance, assigning tasks, and monitoring performance are still done manually through calls, messages, or handwritten notes. This often leads to confusion, missed tasks, or delays. By introducing a centralized digital system, the company can make these operations more efficient, organized, and easier to manage.

With the new system, employees will be able to login and see their daily assignments, clock in and out, and get real-time updates on what needs to be done. Whether it's an installation, re-installation, repair, dismantling, or routine check-up, the maintenance team will be able to record their activities directly into the system. Team leaders can request materials, upload photos or videos of their work, and give status updates all in one place.

For managers and admins, the system will offer a clearer overview of how things are running. They'll be able to see who's working on what, approve requests, and generate reports that show maintenance trends, recurring issues, and how resources are being used. The platform will also include automated scheduling features, helping the team stay ahead of routine maintenance and avoid costly breakdowns by taking a more proactive approach.

One standout feature of this system is the customer evaluation tool, which allows clients to rate the service team's performance using the team leader's device, which will be provided after the job is completed. This feedback will help the company recognize top performers, quickly respond to issues, and constantly improve the service experience.

The system will also send notifications to staff whether it's about a new task, a deadline reminder, or a pending approval so nothing falls through the cracks. All data, from maintenance logs to performance records, will be stored securely in a centralized database, making it easy to track equipment history and team performance over time.

In the end, this project aims to help Asia Cold Storage Corporation work smarter, respond faster, and deliver better service to its clients whether they're in Las Piñas, Cebu, or Davao. By switching to a modern web-based system, the company can strengthen its operations, support its growing team, and continue to lead as a reliable partner in the cold storage industry.

Objectives

General Objective

To develop and deploy a Web-Based Cold Storage Maintenance and Employee Assignment Management System for Asia Cold Storage Corporation that will streamline maintenance operations, optimize employee assignments, and improve performance monitoring through automation and digital integration.

Specific Objectives

- To develop a web-based system that allows employees from the Cebu, Davao, and Las Piñas branches to view their daily service assignments, log time in/out, and allow customers to evaluate team performance through a centralized platform.
- To create a system that enables team leaders across all branches to document maintenance findings, submit material requests, track repair expenses, and upload supporting photo or video documentation for each maintenance activity.
- To digitalize the material request and approval workflow, streamlining the procurement process and allowing superadmin and admins from all branches to monitor and manage repair material usage efficiently.
- To implement an automated scheduling feature that generates preventive maintenance tasks based on historical records and recommended service intervals for refrigeration units.

- To integrate reporting tools that can generate detailed data on maintenance frequency, cost analysis, and performance summaries specific to each branch Cebu, Davao, and Las Piñas.
- To design a centralized management dashboard that provides a consolidated view of maintenance operations, recurring issues, personnel performance, and total operational expenses across all three branches, supporting informed strategic decision-making.

Scope and Limitations

Scope

This project aims to develop a Web-Based Cold Storage Maintenance and Employee Assignment Management System for Asia Cold Storage Corporation. It will automate maintenance tracking and employee assignments to enhance efficiency, accuracy, and oversight. Employees can view tasks, log time, and allow customers to evaluate team performance. Team leaders can record repairs, request materials, and upload media, while superadmin and admin handle approvals and performance monitoring. Key features include automated scheduling, notifications, reports, and dashboards.

- **Employee Assignment Management** – For viewing task schedules, logging time in/out, and allowing customers to evaluate team performance.
- **Maintenance Management** – For recording maintenance findings, submitting material requests, and uploading documentation.
- **Approval Workflow** – For superadmins/admins to approve or reject material requests efficiently.
- **Automated Scheduling** – For generating preventive maintenance tasks based on history.

- **Notifications** – For sending alerts on assignments, approvals, verification code and reminders.
- **Reports and Dashboards** – For analyzing maintenance frequency, costs, and employee performance.

Limitations

While the system will significantly improve maintenance operations and employee management, it will be limited in scope to these functions. It will not include other modules such as inventory control, billing, customer order management, or CRM functions. Additionally, the system will rely on internet connectivity for most of its features to function in real-time.

- **Internet Dependency:** The system's real-time synchronization and dashboard functionalities require a reliable internet connection to operate effectively.
- **Functional Scope Restriction:** The system is designed exclusively for maintenance scheduling and employee assignments; it does not handle inventory management, order processing, or billing operations.
- **Restricted Access:** Usage of the system is exclusive to authorized personnel of Asia Cold Storage Corporation.
- **Limited Approval Rights:** Only users assigned as superadmins or admins have the authority to approve material requests within the system.

Review of Related Literature/Studies/Systems

This section reviews related literature, studies, and systems to support the development of the Web-Based Cold Storage Maintenance and Employee Assignment Management System for Asia Cold Storage Corporation.

Related Literature

Foreign Literature

According to Triparna and Leidner (2025), many global companies are now turning to AI-assisted performance appraisal systems to improve fairness and objectivity in evaluating employees. These systems help workers clearly present their achievements and link them directly to company goals. The study highlights how AI can reduce the common biases found in traditional reviews, resulting in more balanced and just assessments. However, the authors also emphasize that human oversight is still necessary to ensure AI is used ethically, especially in sensitive decision-making scenarios. They recommend setting clear ethical boundaries to prevent the misuse of such powerful technologies.

According to Christl (2024) explores how post-pandemic workplace surveillance tools like RFID, GPS, and AI platforms have become increasingly common in monitoring productivity, especially for remote and mobile teams. While these tools are often effective, the research notes a growing concern among employees about privacy and trust. In particular, Unclear surveillance practices have been linked to higher stress levels and dissatisfaction. The study stresses the importance of using consent-based systems that promote transparency and trust. Christl ultimately advocates for clear communication and employee-focused policies to ensure ethical use of monitoring technologies.

According to Cummins et al. (2024), the introduction of explainable AI (XAI) into predictive maintenance systems has made a big difference in how technicians interact with and trust these tools. By making the reasoning behind AI recommendations easier to understand, XAI increases transparency and confidence among users. The study categorizes current predictive maintenance techniques and outlines future improvements,

particularly around how data is presented to frontline workers. This clarity helps maintenance teams make better decisions and reduces uncertainty. The authors conclude that trust is the foundation for adopting AI in industrial environments.

According to Miller and Dubrawski (2020), argue that system-level predictive maintenance is more effective than focusing on individual components, particularly in complex industrial systems. By understanding how parts of a system interact, companies can better prevent cascading failures and improve overall reliability. The study introduces AI models designed to simulate asset wear and forecast when maintenance is needed. This system-wide approach helps organizations reduce unexpected downtime and plan repairs more strategically. The authors stress the importance of aligning maintenance strategies with real-world conditions and long-term operations.

According to Tian et al. (2021), highlight the value of software traceability in maintaining and evolving complex systems over time. Their mapping study shows that connecting software changes to outcomes makes it easier to track issues, conduct impact analysis, and plan updates. Teams benefit from clearer communication and improved visibility into how updates affect functionality. However, they also found that many organizations still lack strong documentation practices, which limits the effectiveness of traceability tools. The authors recommend building a culture of detailed documentation to fully support long-term system management.

Local Literature

According to Halid et al. (2020), the Lembaga Zakat Negeri Kedah significantly improved transparency and employee satisfaction by digitizing its performance evaluation system. By using analytics and real-time feedback, the organization was able to minimize bias and provide a clearer picture of employee contributions. The study also notes that successful adoption depended on strong training programs and change management. One of the biggest concerns about data security was addressed through strict access control and employee awareness efforts. Overall, this digital shift led to more efficient operations and a more motivated workforce.

According to Rohman (2022), examined Indonesia's civil service and found that manual

evaluations often suffered from bias and inconsistency. To address this, the study recommends the use of key performance indicators (KPIs) and digital systems to create a more measurable and transparent evaluation process. Employees who could track their own progress felt more included and fairly treated. This change also helped promote accountability and better communication between staff and admins. The research encourages broader adoption of digital tools to improve fairness in employee evaluations.

According to Sadiyawati and Hasanati (2024), structured performance appraisal systems can have a strong impact on employee motivation and development. Their research shows that appraisals with clear feedback and goal-setting features result in higher morale and better performance. When training and development programs are aligned with these evaluations, employee engagement increases significantly. The study emphasizes that transparency is key to building trust in the process. Using data to drive these evaluations helps create a fair and supportive work environment.

According to Wiyono et al. (2025), studied institutions in Bandung and found that integrating Environmental, Social, and Governance (ESG) practices into HR management improved employee well-being and retention. Initiatives related to sustainability and social responsibility were especially linked to higher job satisfaction. The research also highlights the role of strong governance in enhancing these positive effects. Aligning digital HR tools with ESG goals helped amplify their impact. The authors conclude that a people-centered and sustainable HR approach benefits both staff and the organization as a whole.

According to Rosele et al. (2022), explored how participatory performance reviews where employees can evaluate themselves and align their goals boost job satisfaction in Malaysian workplaces. The study points out the importance of regular feedback and recognition in maintaining employee engagement. It also stresses the need for proper training and data privacy protections when implementing digital systems. When employees can clearly see their goals and progress, they feel more accountable and empowered. The research shows that inclusive evaluation processes lead to better performance and a stronger sense of ownership at work.

Related Studies and/or Systems

Foreign Studies and/or Systems

According to AI-Powered Performance Review Systems (2025), many global corporations are adopting AI-based platforms to make employee evaluations more objective and data-driven. These systems analyze productivity metrics, goal completion rates, and even peer feedback to create well-rounded performance assessments. A key advantage is their ability to forecast future performance trends, allowing managers to plan ahead more effectively. Still, the study emphasizes that human oversight is essential without it, AI-generated insights may lack nuance and carry risks of algorithmic bias influencing critical HR decisions.

According to Explainable AI Maintenance Platforms (2024), The study reports that manufacturers in Europe and North America are increasingly using predictive maintenance tools that come with transparent, easy-to-understand interfaces. These systems reduce false alarms and build trust among technicians by clearly explaining the rationale behind maintenance recommendations. However, integrating such modern tools with older, legacy equipment remains a significant challenge. Despite this, their impact is evident companies have seen reduced unplanned downtime and improved asset reliability. The research points out that transparency is key to widespread adoption.

According to System-Level Predictive Maintenance Platforms (2020), highlights how industries like energy and transportation are moving beyond analyzing individual components, instead simulating entire system behaviors using AI. This approach helps prevent chain-reaction failures in interconnected infrastructure by enabling smarter, system-wide maintenance schedules. The platforms use real-time data and historical performance to adapt and improve accuracy. The study strongly recommends transitioning from narrow, component-focused methods to broader, system-aware strategies for more resilient operations.

According to Workplace Surveillance Platforms Post-COVID (2023), companies have adopted advanced surveillance systems featuring biometric time logs and GPS-based task tracking to monitor hybrid and remote workers. These systems help ensure compliance and accountability, particularly for field-based teams. However, the research underscores that transparency and voluntary participation are crucial for maintaining employee trust. When surveillance is deployed ethically and employees retain some autonomy, productivity gains can be achieved without harming morale. These features closely reflect the time-in/out logging and task assignment mechanisms planned in your project.

According to Software Traceability Tools (2021), explains how development teams use automated tools to track software changes, monitor dependencies, and improve accountability. These tools link specific code updates to system outcomes, making it easier to plan, troubleshoot, and manage long-term maintenance. Their integration with DevOps workflows and platforms like Git has made traceability more accessible and streamlined. According to the study, such systems also foster better collaboration among team members and help minimize errors in system updates.

Local Studies and/or Systems

According to Rodriguez III et al. (2024), the *eDALAYON Document Monitoring System* developed for the Department of the Interior and Local Government (DILG) has digitized internal workflows, allowing for faster document routing and secure tracking. The system includes access controls and real-time reporting, which led to fewer lost documents and quicker response times. Using agile development, the team built a scalable and modular platform that could evolve based on user feedback. The study underscores how digital monitoring tools can enhance transparency and operational responsiveness in the public sector.

According to Campos, Desabille, and Ladera (2023), developed an Online Monitoring and Tracking System at Lyceum of the Philippines University to track dormitory resident activities in real time. It logs entries, exits, visitor data, and curfew compliance, enhancing safety and administrative oversight. One standout benefit was improved communication between dorm superadmins and parents, who could access updates about

students remotely. The study suggests that real-time tracking features contribute greatly to accountability paralleling your system's focus on employee task monitoring and maintenance updates.

According to Dela Cruz (2022), introduced a *Management Information System* for the National Labor Relations Commission aimed at consolidating fragmented case records. It includes controlled user access, audit logs, and performance dashboards that give clearer insights into case progress. The system significantly improved internal communication and addressed delays caused by disorganized paper-based processes. The research highlights how digitization can streamline government workflows and promote better decision-making through timely data.

According to Salac (2020), the *PRESENT* mobile application was created to address issues with manual attendance in schools by using facial recognition technology. It offered a contactless, accurate alternative to traditional methods and was well-received for its usability. Teachers reported reduced workload, and the system prevented fraudulent attendance practices. This study demonstrates the potential of biometric tools to enhance monitoring accuracy, an approach that could be adapted to employee attendance tracking in your project.

According to Santos, Balba, and Rebong (2021), developed an attendance system using an Optimization Query Algorithm combined with seat plan mapping and facial recognition. The system, used in public schools, helped automate attendance tracking and provided superadmins with real-time reports through a dashboard. Teachers experienced greater convenience, and the school was able to gain better insight into attendance trends. The authors highlight the advantages of combining smart algorithms and automation to improve efficiency in monitoring an idea highly relevant to the intelligent tracking aspects of your system.

Synthesis

After going through the various literature, studies, and system examples, one thing is clear, digital transformation plays a major role in improving how companies handle maintenance and manage employees. For a company like Asia Cold Storage Corporation, where timing, coordination, and efficiency are critical, moving to a digital system isn't just a nice-to-have, it's essential. Tools like performance tracking systems and digital maintenance platforms offer a better way to stay organized, reduce downtime, and keep people accountable.

Looking at international trends, there's a noticeable shift toward smarter technologies. Studies by Triparna and Leidner (2025), Cummins et al. (2024), and Christl (2024) point to the growing use of AI to assist with employee evaluations, workplace monitoring, and predictive maintenance. These tools are designed to remove bias, increase transparency, and make decision-making more data-driven. However, they also raise important concerns like how to protect employee privacy and ensure that decisions aren't left entirely to algorithms. The bottom line? These technologies work best when paired with clear communication and human oversight.

In maintenance management, researchers like Miller and Dubrawski (2020) stress that companies need to look at the bigger picture, not just individual parts. Predictive maintenance systems that focus on the entire operation rather than isolated components help prevent bigger issues down the line. Similarly, Tian et al. (2021) show how keeping detailed, traceable records makes it easier to troubleshoot problems and maintain systems over time. It's all about giving teams the tools and information they need to act quickly and confidently.

On the local side, Southeast Asian organizations are also making progress. Studies by Halid et al. (2020) and Rohman (2022) show how digitizing employee evaluations can lead to fairer reviews, stronger engagement, and better communication between staff and admins. Meanwhile, Sadiyawati and Hasanati (2024) emphasize the importance of feedback, goal-setting, and transparency to build trust in the workplace. These researchers also highlight the need for training and change management, reminding us

that even the best systems won't work if people don't know how to use them or aren't on board with the changes.

Real-world system implementations back all of this up. Across the globe, companies are already using AI-driven tools, predictive platforms, and smart tracking systems to get ahead. Locally, tools like the eDALAYON Document Monitoring System (Rodriguez III et al., 2024) and apps like PRESENT (Salac, 2020) show how going digital helps reduce errors, improve speed, and increase visibility into daily operations. These systems have helped schools, government offices, and other organizations operate more smoothly and they offer valuable insights for businesses like Asia Cold Storage Corporation.

All of these findings directly support the proposed Web-Based Cold Storage Maintenance and Employee Assignment Management System. The company currently faces issues like scattered maintenance updates, delayed task tracking, and poor visibility all challenges echoed in the literature. By adopting a centralized, AI-supported platform, Asia Cold Storage can solve these problems more efficiently. Even more importantly, adding features like feedback systems, traceability logs, and clear reporting tools will help keep the process fair and transparent for employees, building trust and ensuring long-term success for both the people and the company.

Theoretical Framework

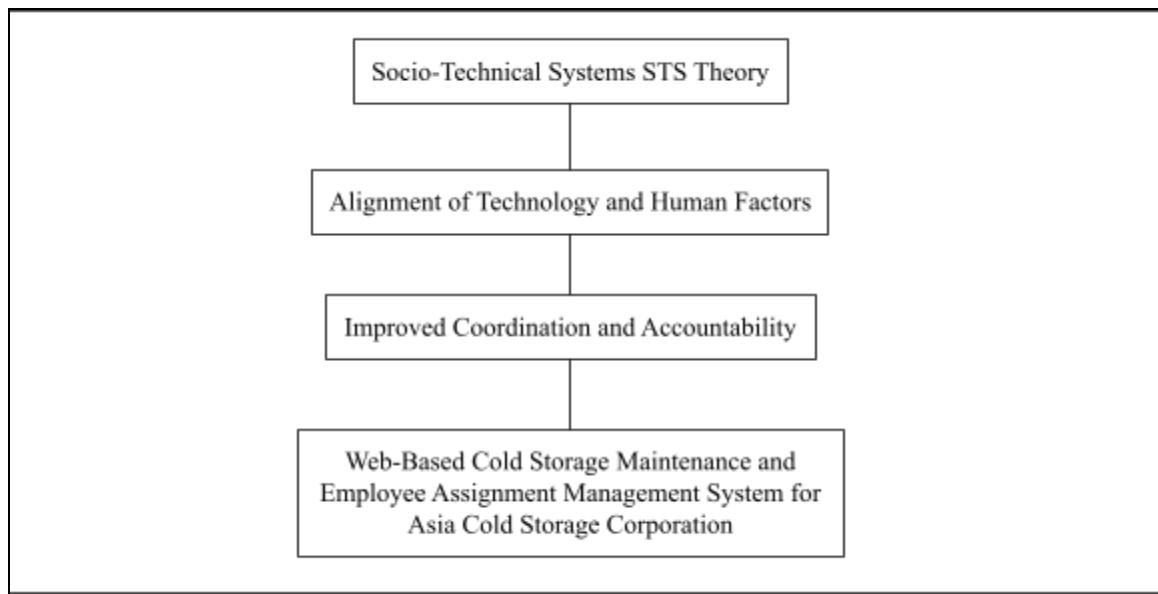


Figure 1.1: Theoretical Framework for Web-Based Cold Storage Maintenance and Employee Assignment Management System for Asia Cold Storage Corporation

The theoretical framework of this study is anchored on Socio-Technical Systems (STS) Theory, this highlights how technology systems and human components within an organization are interdependent. This theory backs the creation of a platform that fits with users' workflows, communication preferences, and decision-making processes in addition to automating maintenance tracking and employee task allocations. The project intends to increase responsibility, decrease errors, and improve coordination amongst all Asia Cold Storage Corporation branches by building the system to enable both technical functionality and human use. The system is guaranteed to be both socially sensitive and operationally efficient through the integration of technology and human elements guided by STS theory.

Conceptual Framework

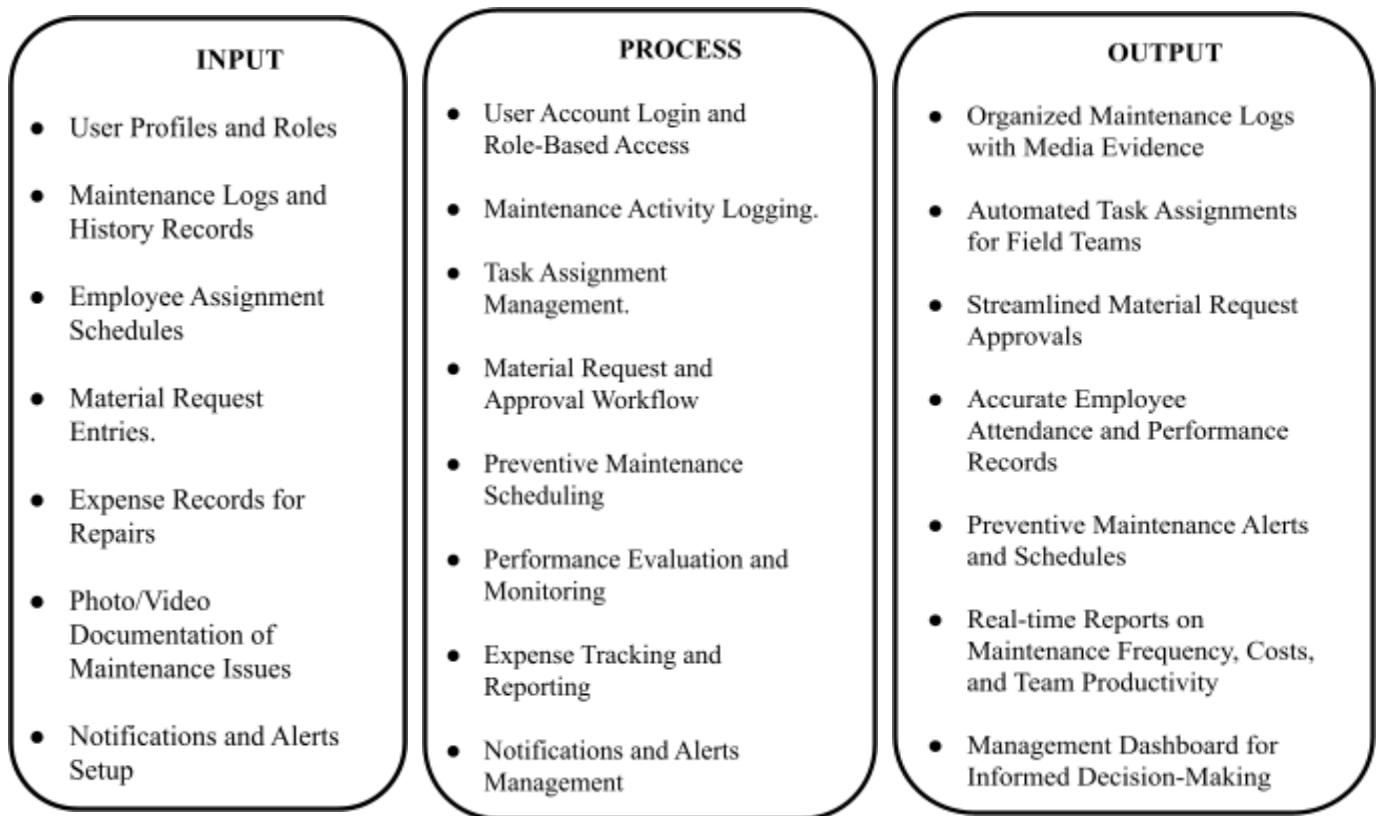


Figure 1.2: Conceptual Framework for Web-Based Cold Storage Maintenance and Employee Assignment Management System for Asia Cold Storage Corporation

The figure above presents the conceptual framework of the proposed web-based system using the Input-Process-Output (IPO) model. Inputs include user profiles, maintenance logs, employee schedules, and material requests. Processes cover task management, maintenance logging, approval workflows, and preventive scheduling. The Outputs are organized records, automated tasks, streamlined approvals, performance tracking, and reports aimed at improving efficiency, reducing downtime, and enabling data-driven decisions for Asia Cold Storage Corporation.

METHODOLOGY

This section outlines the research methods, development approach, and technical procedures for designing and implementing the Web-Based Cold Storage Maintenance and Employee Assignment Management System. It covers the development model, methodology, and key project requirements.

Design of Software, System, Product, and/or Processes

This study uses a Developmental Research Design guided by the Agile Software Development Life Cycle (SDLC). The goal is to carefully design, build, and test a web-based system that will help Asia Cold Storage Corporation manage its maintenance tasks and employee assignments more efficiently. By following the Agile method, the system will be developed step-by-step in short cycles or “sprints,” allowing the team to gather feedback from users like technicians, team leaders, and admins at every stage. This makes it easier to adjust and improve the system based on real-world needs. Using Agile is a great fit for this project because it encourages flexibility, user involvement, and ongoing improvement, making sure the final system truly works for the people who rely on it every day.

Agile SDLC Methodology

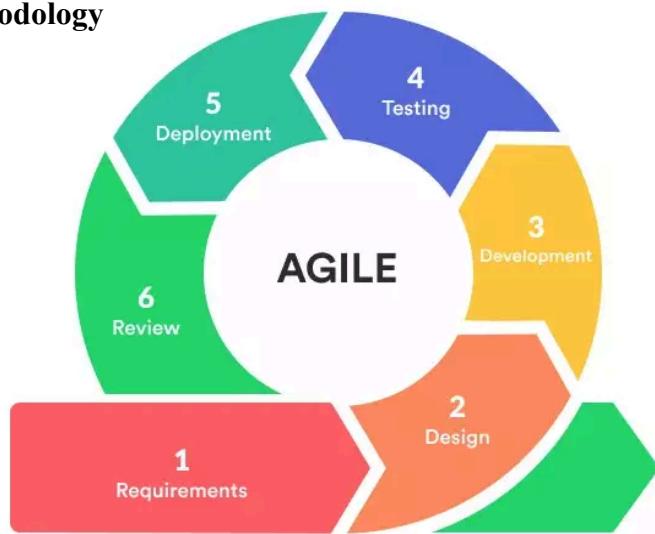


Figure 2.1 Agile SDLC Methodology

Agile Development Phases

Requirements: In this phase, the team focused on identifying key challenges faced by Asia Cold Storage Corporation. These included delays in maintenance documentation, inefficient task assignments, and manual handling of material requests. By conducting interviews and consultations with superadmins and admins, the team gathered and prioritized user stories. The top requests included automating task assignments, simplifying maintenance logging, enabling digital material requests with an approval process, and offering real-time dashboards for tracking performance. These insights shaped the system to address current issues while also aligning with future goals.

1 Sprint (2 weeks)

Planning: With requirements in hand, the team built a product backlog that outlined the system's essential features in order of priority. Sprint planning meetings were held to break down the work into manageable goals, starting with high-impact areas like maintenance logging and task assignment. Team roles, responsibilities, and timelines were clearly defined to keep development on track and ensure that functional features would be delivered consistently.

1 Sprint (1 week)

Design: The design phase focused on creating intuitive and user-friendly wireframes tailored to the company's daily maintenance workflows. Modules were drafted for key areas such as maintenance logs, task dashboards, material request forms, and performance tracking. The team chose reliable technologies like PHP with the Laravel framework, MySQL for backend data handling, and responsive front-end tools to guarantee a scalable and user-friendly system.

2 Sprints (2-3 weeks)

Development: Development began with building the foundation: user authentication, role-based access, task assignment features, and maintenance activity logging. As sprints progressed, more advanced features were introduced, including digital material request forms with approval flows, preventive maintenance scheduling, and notification alerts. Regular code reviews and version control ensure code quality and smooth collaboration. Feedback from company representatives played a vital role in refining the system to

match real-world needs.

4 Sprints (5-6 weeks)

Testing: Every sprint included rigorous testing. This involved unit tests, integration checks, and user acceptance testing (UAT) to ensure each feature worked as intended. Test cases validated whether maintenance logs were accurate, task notifications were timely, and approval workflows ran smoothly. Company admins and superadmins participated in UAT, helping identify and resolve bugs quickly to enhance system reliability.

2 Sprint (2 weeks)

Deployment: Once core features were complete, the system was deployed to a staging environment where it was tested in real-world conditions. The initial rollout included maintenance logging and task management. After successful validation, additional features like material requests, preventive scheduling, and reporting dashboards were introduced gradually. This phased deployment helped staff adapt to the system with minimal disruption.

2 Sprints (2 weeks)

Review: Each sprint concluded with a review session where stakeholders assessed completed work, provided feedback, and suggested refinements. These sessions ensured transparency, allowed for continuous alignment with company needs, and fostered a collaborative development environment. Regular reviews guaranteed that the system evolved according to operational demands and business objectives.

2 Sprints (2 weeks)

Technical Background and Technologies

At the end of each sprint, the team held review sessions with stakeholders to present completed features, gather feedback, and plan adjustments. These meetings fostered transparency, kept development aligned with company goals, and encouraged a collaborative working environment. Ongoing reviews ensured that the system evolved based on actual user needs and business priorities.

System Development Tools

- **Front-End**

The user interface will be developed using HTML5, CSS3, and JavaScript, enhanced by Bootstrap to ensure a responsive and mobile-friendly design. These technologies allow for a clean, accessible interface that adapts well to various screen sizes and devices.

- **Back-End**

The server-side logic and functionality will be built using PHP, specifically utilizing the Laravel Framework, which offers robust features such as routing, authentication, and built-in security layers.

- **Database Management**

The system will use MySQL as its relational database management system. MySQL offers reliable data handling and is widely compatible with PHP and Laravel.

- **Hosting**

The application will be hosted on Amazon Web Services (AWS) with support for SSL encryption and Content Delivery Network (CDN) features to ensure secure, fast, and global access to the platform.

- **Version Control**

To manage code versions and facilitate team collaboration, GitHub or GitLab will be used for source control and repository management.

- **Development Environment**

The system will be developed using Visual Studio Code, a lightweight and versatile integrated development environment (IDE) with extensive plugin support and Git integration.

Resources

Hardware Requirements

- **Server**

A reliable server is required, with specifications of at least 8GB RAM, Quad-core processor, and 500GB SSD storage to handle concurrent system requests and data transactions.

- **Workstations**

Development and administrative workstations (desktops or laptops) should have a minimum of 4GB RAM for adequate performance during development, testing, and system access.

Software Requirements

- **Web Browsers**

The system is intended to run on modern browsers such as Google Chrome and Mozilla Firefox to ensure compatibility and smooth performance.

- **Back-End Stack**

PHP 8.x with Laravel Framework for application logic

MySQL as the database server for structured data storage

- **Hosting**

A cloud-based hosting solution AWS will be used for deploying and managing the live environment.

- **Version Control Tools**

Either GitHub or GitLab will be employed for code versioning, collaboration, and project tracking.

Functional Requirements

These describe the core features and operations the system must perform.

User Roles & Authentication

- **REQ001:** Secure login for Superadmin, Admin, and Employee roles.
- **REQ002:** Role-based access to system features.

Employee Assignment Management

- **REQ003:** Admin can assign tasks per employee and branch.
- **REQ004:** Employees can view and confirm daily assignments.

Maintenance Management

- **REQ005:** Users can log maintenance tasks such as repairs, installations, and check-ups.
- **REQ006:** Media uploads (photos/videos) of completed work are supported.

Material Request Approvals

- **REQ007:** Team leaders can submit requests for repair materials.
- **REQ008:** Superadmins/admins approve or reject material requests.

Automated Maintenance Scheduling

- **REQ009:** System generates preventive maintenance tasks based on past data and service intervals.

Performance Monitoring and Customer Feedback

- **REQ010:** Customers can rate and evaluate service teams post-task using team leader devices.

Notifications and Alerts

- **REQ011:** System generates preventive maintenance tasks based on historical data.

Reports and Dashboards

- **REQ012:** Generate reports on maintenance frequency, cost analysis, performance summaries.
- **REQ013:** View dashboards showing operational overviews per branch (Las Piñas, Cebu, Davao).

Non-Functional Requirements

These describe system quality attributes and constraints:

Availability and Reliability

- **REQ001:** The system must ensure minimal downtime and handle multiple users concurrently.
- **REQ002:** System must be accessible during business hours (8:00 AM to 5:00 PM) with after-hours reporting support.

Security

- **REQ003:** Role-based access control for different system functionalities.
- **REQ004:** Secure authentication and data encryption (SSL via AWS Hosting).

Usability

- **REQ005:** User-friendly and responsive interface accessible via desktop or mobile.
- **REQ006:** Easy navigation for non-technical users.

Performance

- **REQ007:** System should respond within 2 seconds under normal load.
- **REQ008:** Must support simultaneous operations across multiple branches (Las Piñas, Cebu, Davao).

Scalability

- **REQ009:** Must be scalable to accommodate more branches or users in the future.

Maintainability

- **REQ010:** Use of Laravel framework and MySQL for ease of updates and maintenance.
- **REQ011:** Version control via GitHub/GitLab.

Portability

- **REQ012:** Cross-platform compatibility via modern web browsers (Chrome, Firefox).
- **REQ013:** Accessible from various devices (phones, tablets, desktops).

Auditability

- **REQ014:** The system should maintain logs of all critical actions like approvals and task completions for audit purposes.

Data Integrity

- **REQ015:** Prevent duplicate records and ensure consistent, accurate information storage in the MySQL database.

Dependency

- **REQ016:** Requires a stable internet connection for real-time updates and cloud functionality.

Calendar of Activities

ACTIVITY	MONTH	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Forming of Group													
Submitted formed group													
Submitted top 3 advisers													
Proposed 5 project titles													
Adviser pick project titles													
Chapter 1-3 paper draft													
Finding client													
First Mock Defense													
First client interview													
First Paper Revision													
Consultation w/ capstone Research Adviser													
Second Mock Defense													
Second Paper Revision													
Third Mock Defense													
Third Paper Revision													
Second client interview													
Finalized chapter 1-3													

Requirements Analysis

WHO: The primary users of the system are the maintenance teams, admin, and super admin of Asia Cold Storage Corporation. Admin handle task assignments, oversee maintenance documentation, and initiate material requests for repairs. superadmin and admin are responsible for approving requests, monitoring maintenance activities, and evaluating team performance. Field technicians carry out maintenance tasks on-site and report their findings through the system.

WHAT: Asia Cold Storage Corporation, based in Las Piñas, specializes in manufacturing cold storage solutions for businesses in the food, logistics, and retail industries. The company designs, builds, and maintains cold storage units used for preserving perishable goods. Regular maintenance of these units is critical to ensure their optimal performance and to prevent costly breakdowns. Key operational activities include maintenance scheduling, issue reporting, task assignment management, material request processing, and employee performance monitoring.

WHERE: The company operates both office facilities and on-site project locations where cold storage units are installed and serviced. Maintenance teams are frequently deployed to client sites across different areas, requiring efficient coordination and real-time communication.

WHEN: The system will primarily operate during the company's standard working hours, from 8:00 AM to 5:00 PM, with a lunch break from 12:00 NN to 1:00 PM. However, provisions for after-hours maintenance reporting will be included to accommodate emergency repairs and urgent service requirements.

HOW: At present, the company relies on a manual, paper-based system for tracking maintenance activities, employee assignments, and material requests. Maintenance reports are handwritten, task assignments are communicated verbally or through messaging apps, and material requests are processed manually, often leading to delays. Employee attendance and performance tracking are also done using manual logs, resulting in challenges in generating accurate records and performance reports.

Requirements Documentation

There are formal documents and agreements between Asia Cold Storage Corporation and the development team for the creation of the Web-Based Cold Storage Maintenance and Employee Assignment Management System. These documents establish the mutual understanding of the project's purpose, scope, and objectives. The client has officially authorized the development team to design and implement a system that will streamline maintenance operations, improve task assignment management, and enhance employee performance tracking through automation and digital solutions. The agreement outlines the specific functionalities of the system, including maintenance logs, task scheduling, material request workflows, notifications, and reporting features. This documentation serves as a reference for both parties to ensure that the system aligns with the operational needs of Asia Cold Storage Corporation, particularly in managing their cold storage manufacturing and service operations. It defines the roles and responsibilities of each party, ensuring clear expectations and accountability throughout the system's development. By formalizing these requirements, the agreement lays a solid foundation for collaboration, minimizes misunderstandings, and guides the project towards achieving its goals of operational efficiency, data accuracy, and improved maintenance management.

Use Case Diagram

Here is the use case diagram for the Web-Based Cold Storage Maintenance and Employee Assignment Management System. It follows industry-standard practices to illustrate the system's scope and the specific functionalities available to each user role. The system defines three user levels: Superadmin, Admin, and User.

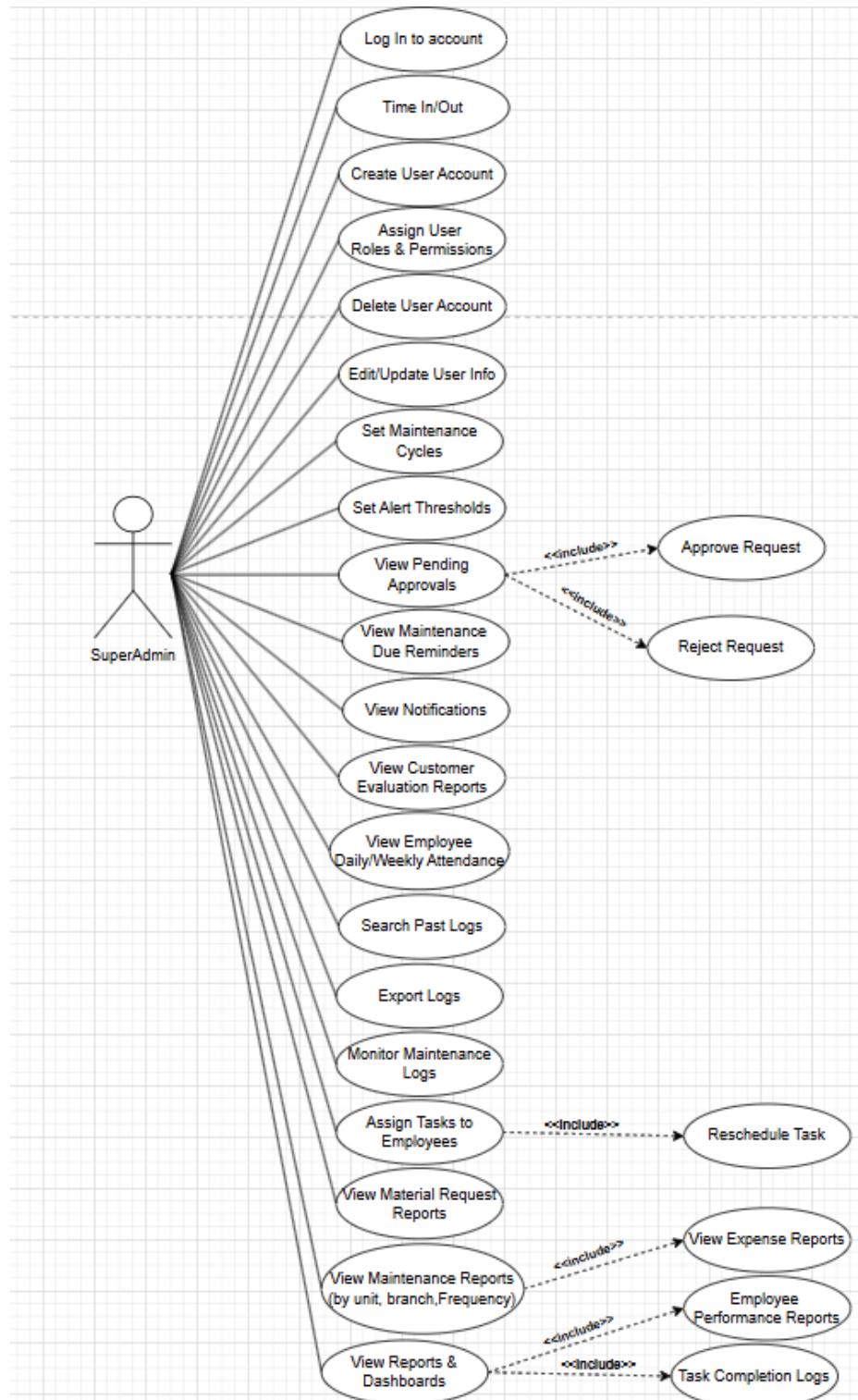


Figure 3.1: Use Case Diagram for Web-Based Cold Storage Maintenance and Employee Assignment Management System for Asia Cold Storage Corporation (SuperAdmin)

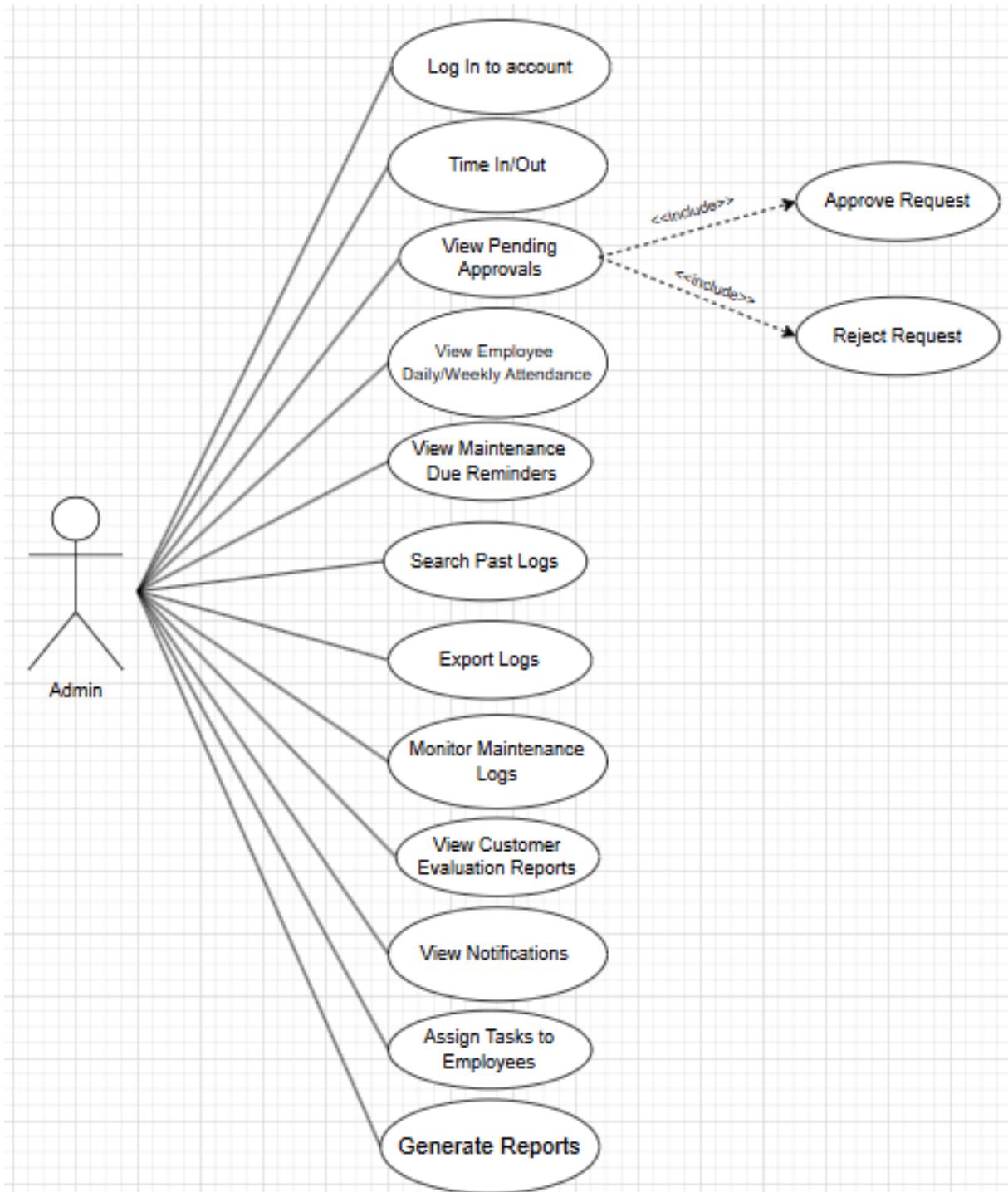


Figure 3.2: Use Case Diagram for Web-Based Cold Storage Maintenance and Employee Assignment Management System for Asia Cold Storage Corporation (Admin)

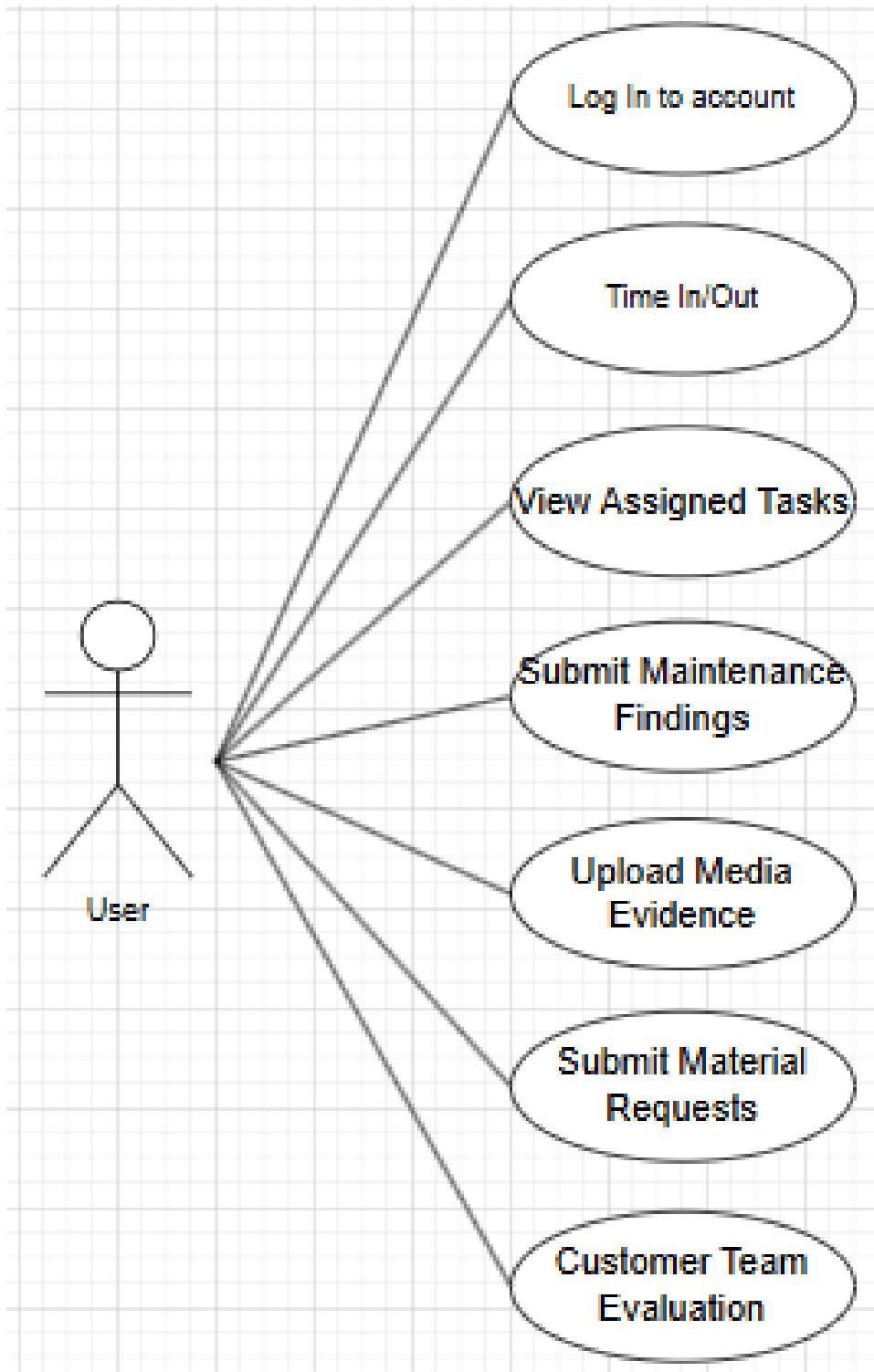


Figure 3.3: Use Case Diagram for Web-Based Cold Storage Maintenance and Employee Assignment Management System for Asia Cold Storage Corporation (User)

Activity Diagrams

SuperAdmin

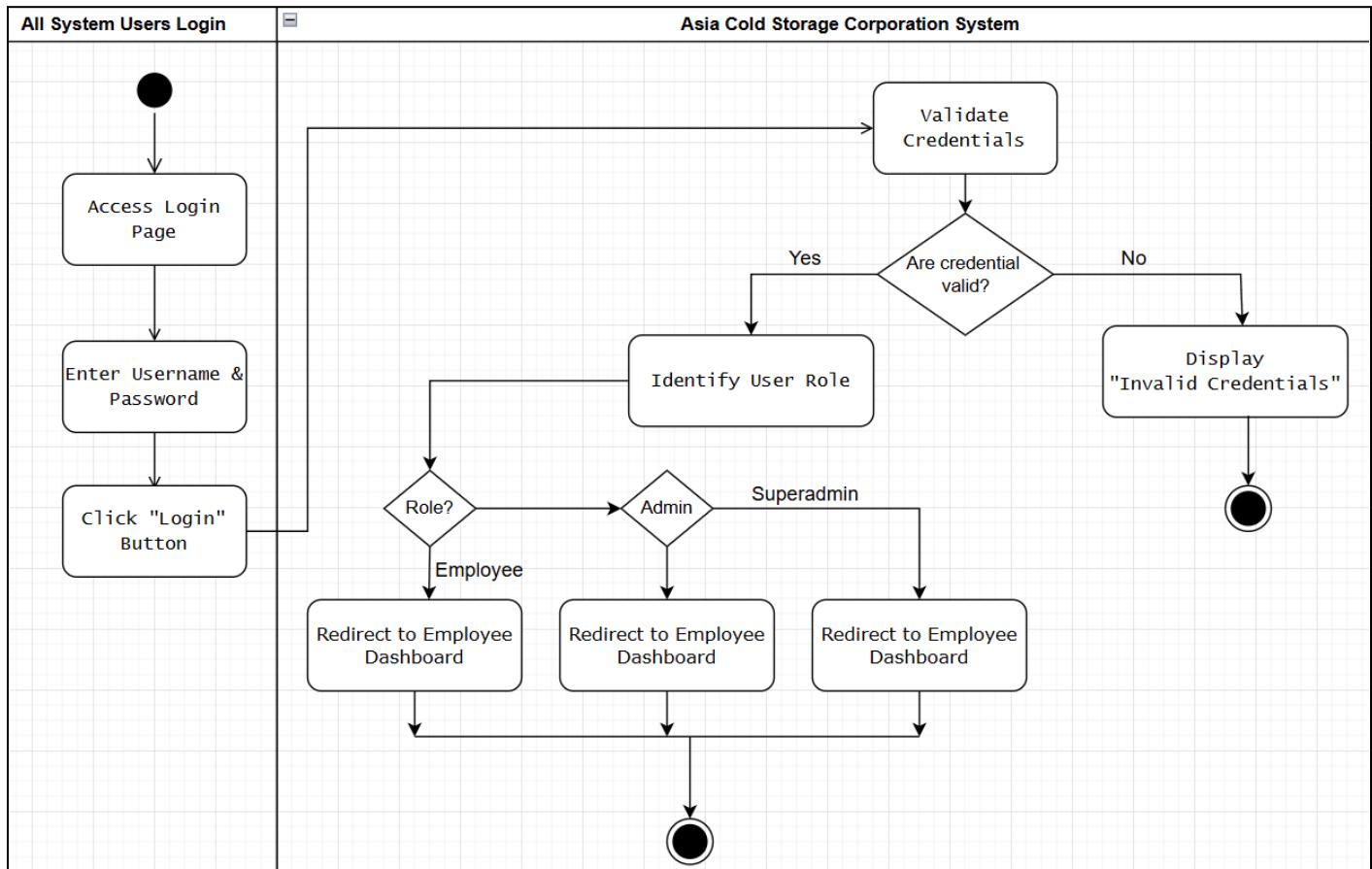


Figure 4.1: Activity Diagram (Login Process for SuperAdmin)

This shows how a SuperAdmin logs into the system. They enter their username and password, and the system checks if the credentials are correct. If everything matches, they're taken to their dashboard. If not, they'll get an error and need to try again.

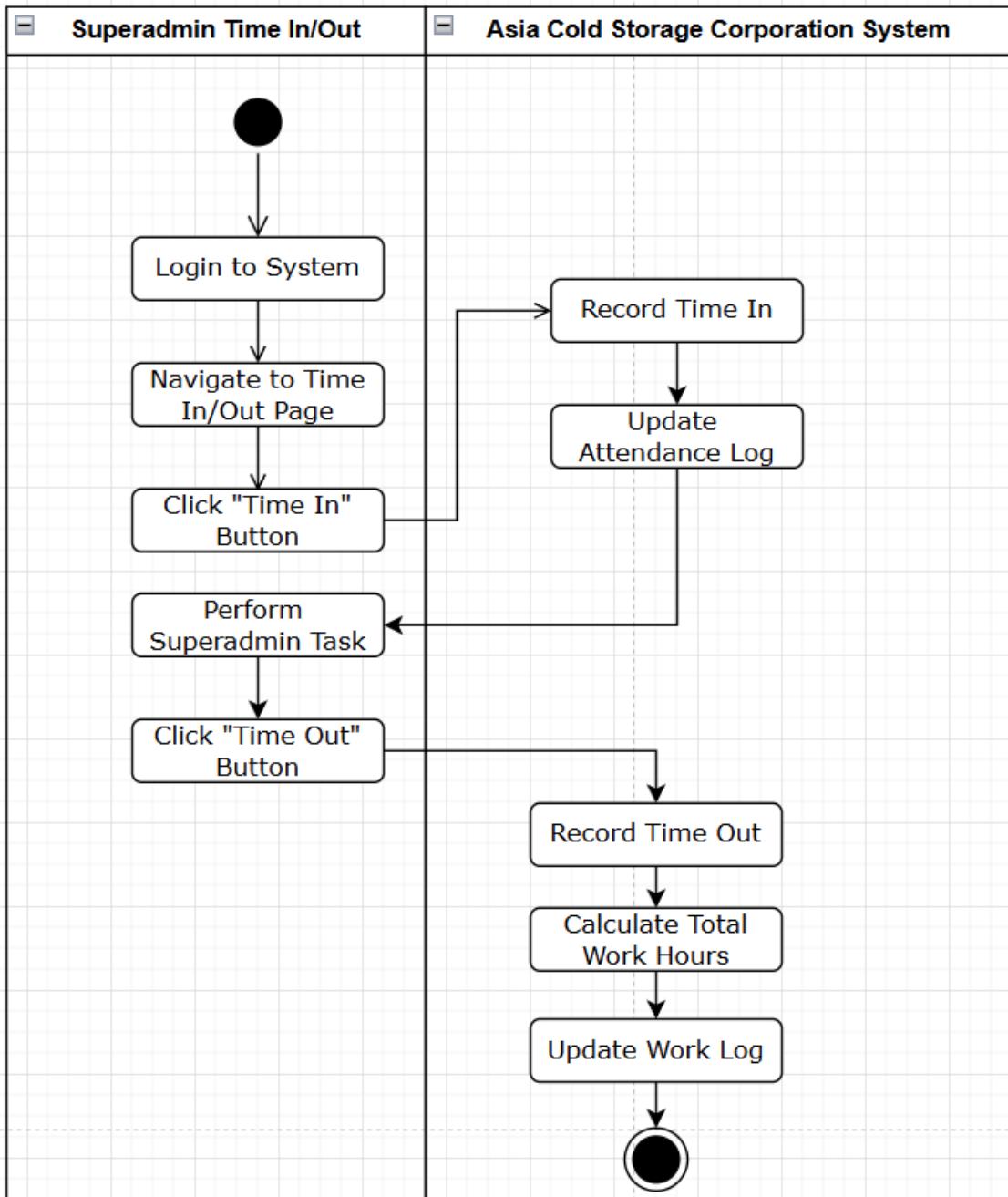


Figure 4.2: Activity Diagram (Time In/Out Process for SuperAdmin)

This diagram illustrates how the SuperAdmin records their attendance. They choose to either time in or out, and the system records the action with a timestamp. The system then confirms the successful logging of the attendance.

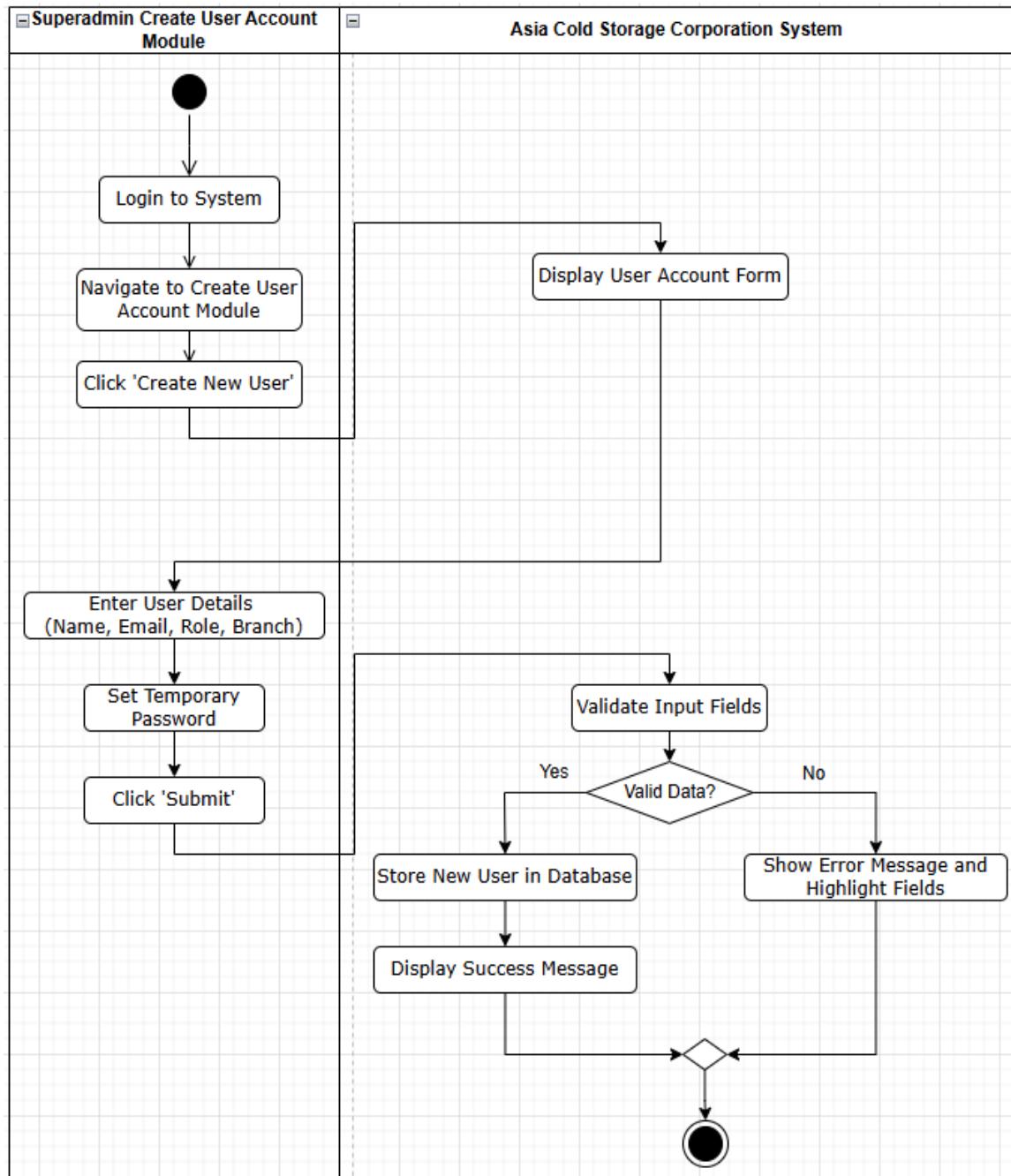


Figure 4.3: Activity Diagram (Create User Account Process for SuperAdmin)

This process describes how a SuperAdmin creates a new user account. The SuperAdmin inputs necessary details like name, role, and credentials. Once submitted, the system saves the new user to the database. A success message confirms the account is ready.

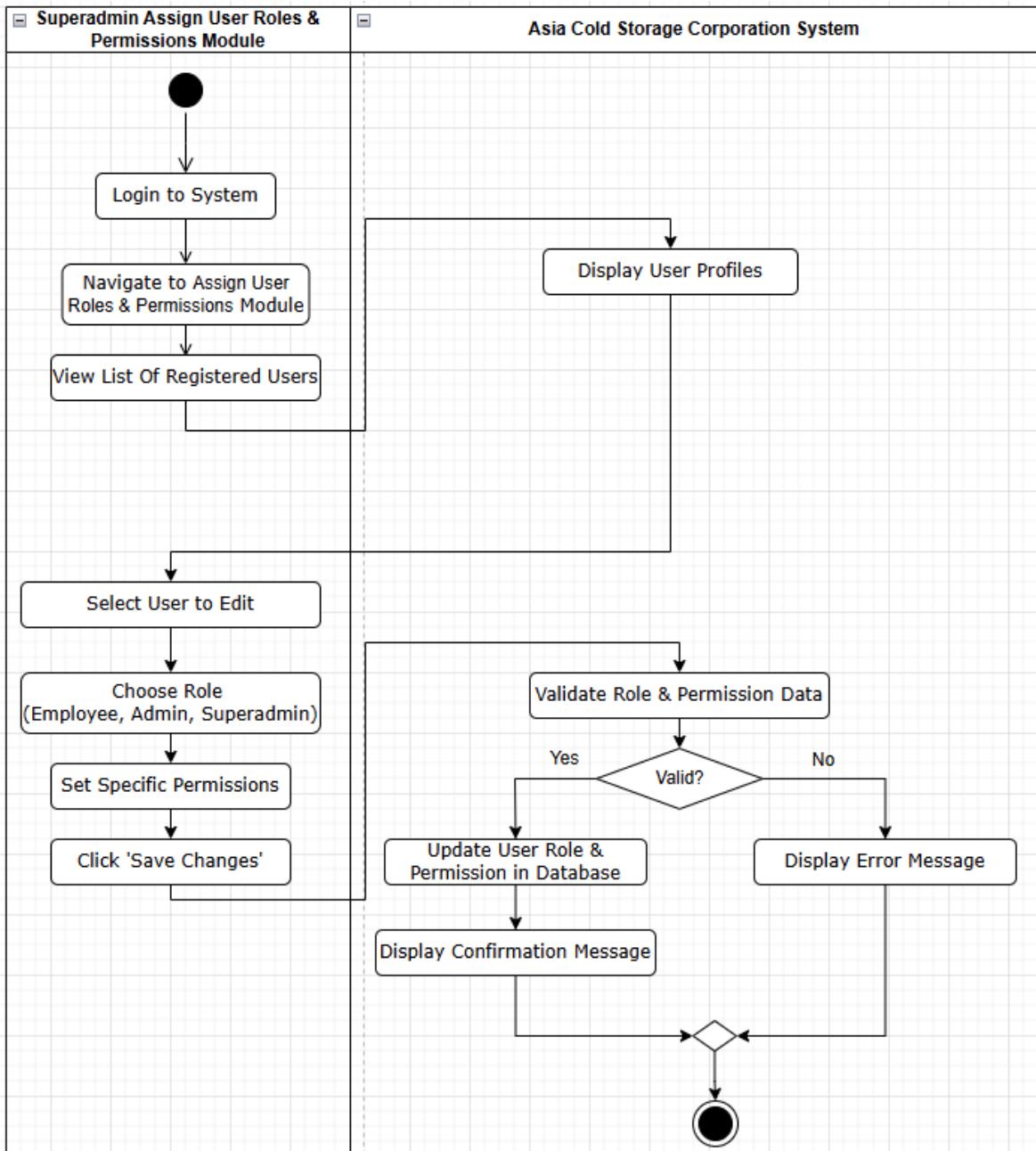


Figure 4.4: Activity Diagram (Assign User Roles & Permissions Process for SuperAdmin)

This diagram shows how a SuperAdmin assigns roles and access levels to users. After selecting a user, the SuperAdmin defines their role and sets specific permissions. The system saves the updated user access settings. A confirmation message is displayed once the process is complete.

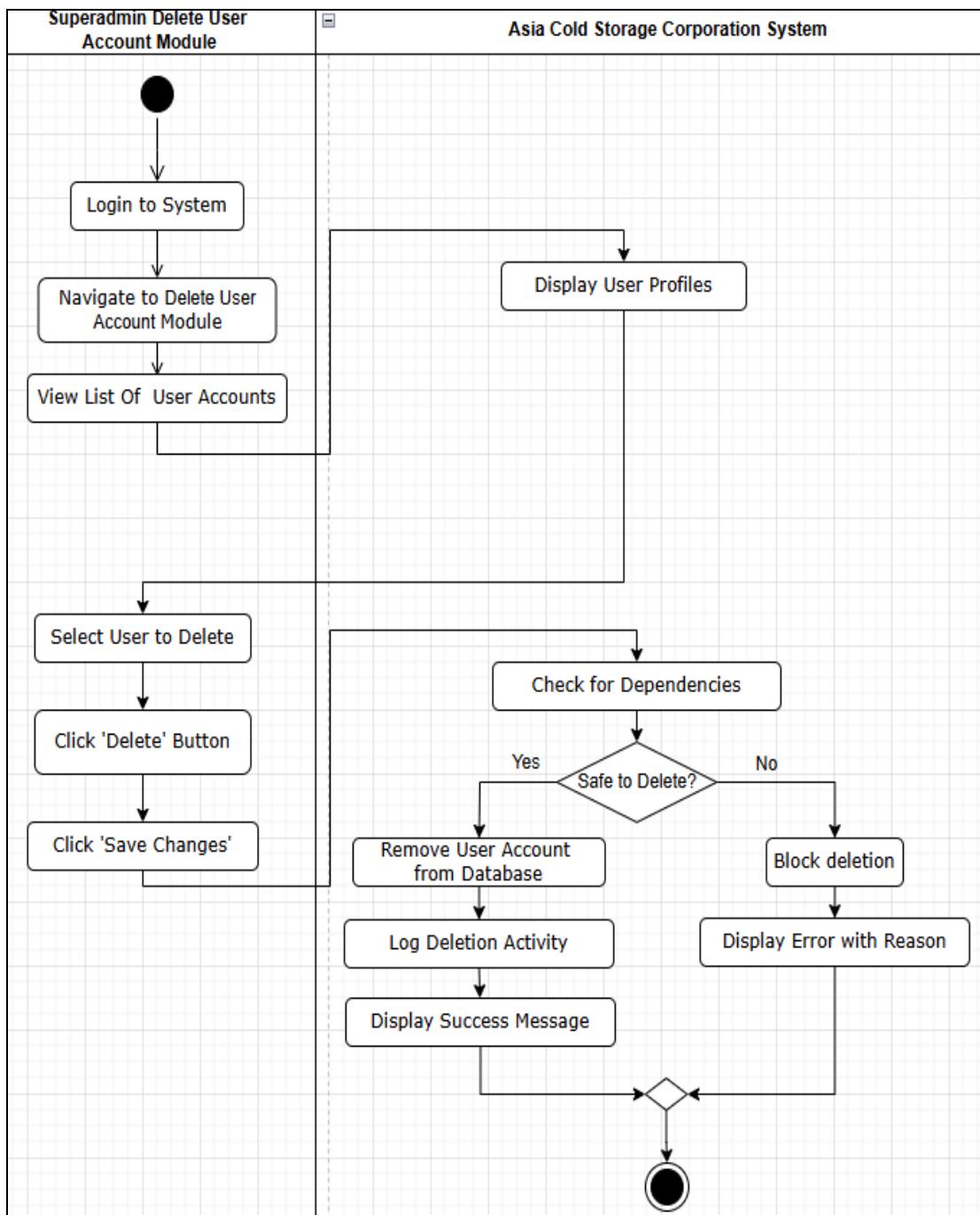


Figure 4.5: Activity Diagram (Delete User Account Process for SuperAdmin)

This diagram illustrates the process of deleting a user account. The SuperAdmin selects the user to be removed and confirms the action. The system then deletes the account from the database. A message appears confirming the deletion was successful.

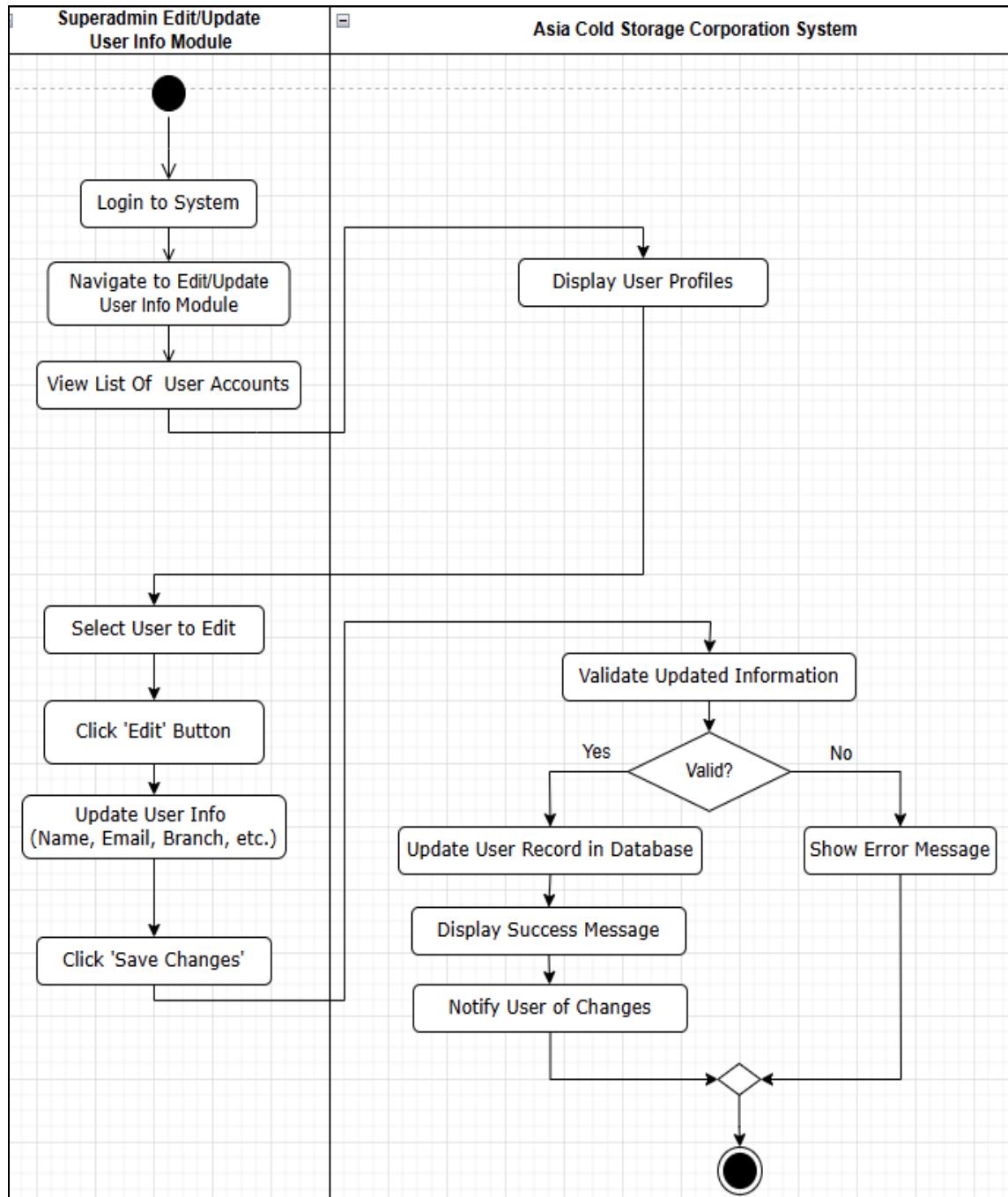


Figure 4.6: Activity Diagram (Edit/Update User Info Process for SuperAdmin)

This diagram shows how to edit user details if something changes like a name, contact info, or position. The SuperAdmin opens the user's profile, makes the updates, and saves. The system stores the changes right away. This helps keep everyone's info current.

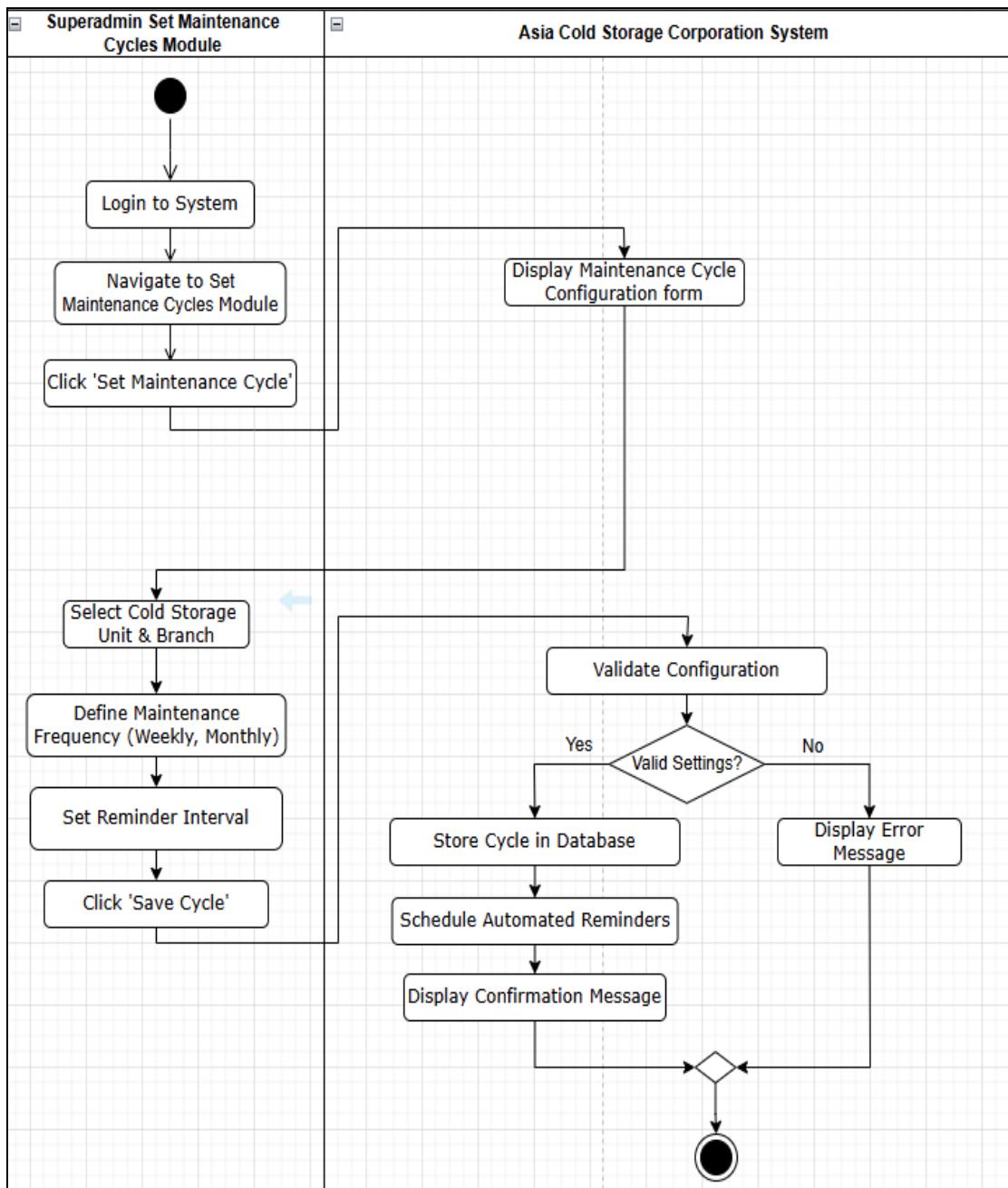


Figure 4.7: Activity Diagram (Set Maintenance Cycles Process for SuperAdmin)

This process allows the SuperAdmin to configure routine maintenance schedules. They choose a cold storage unit, set service intervals, and define cycle dates. The system stores this information and generates future maintenance tasks accordingly. A success message confirms that the schedule has been set.

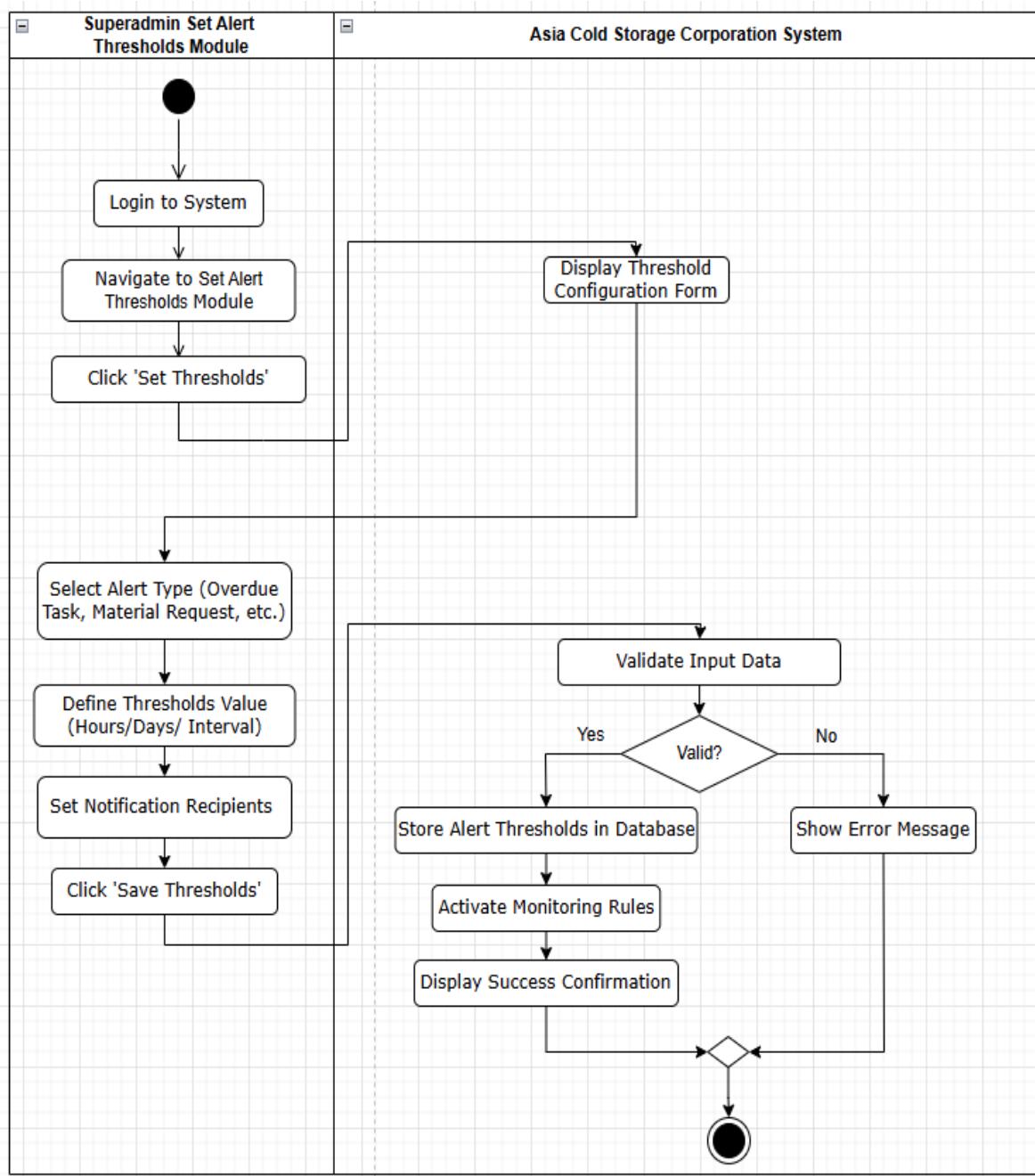


Figure 4.8: Activity Diagram (Set Alert Thresholds Process for SuperAdmin)

This diagram shows how the SuperAdmin configures alerts for maintenance or system activities. They define thresholds like overdue tasks or material request delays. The system activates automated alerts once these conditions are met. A message confirms the alert settings have been applied.

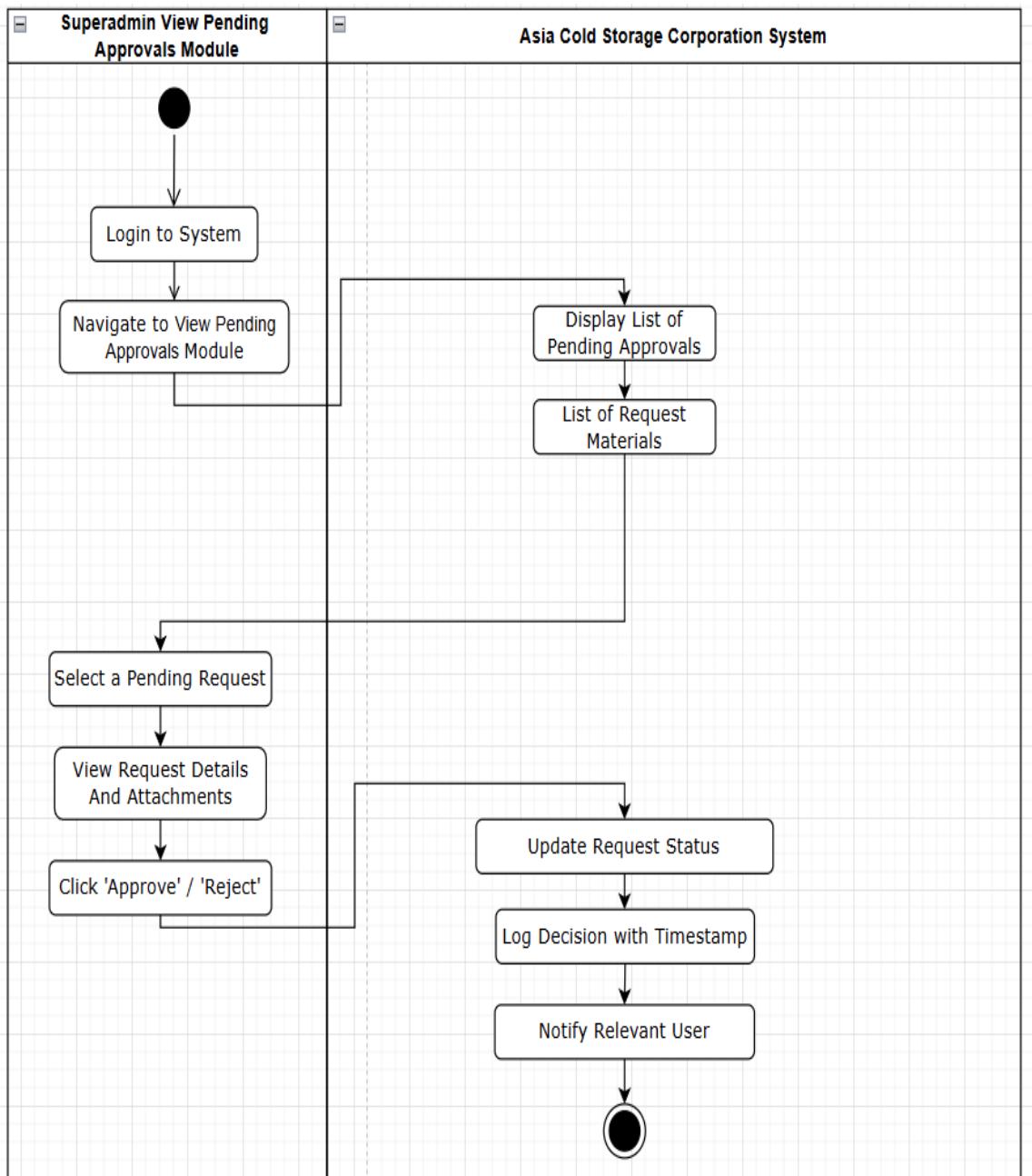


Figure 4.9: Activity Diagram (Pending Approvals Process for SuperAdmin)

This process involves viewing material requests or other actions awaiting approval. The SuperAdmin accesses a list of pending items and reviews the details. They may then approve or reject the request based on the information provided. The system updates the request status and sends a notification.

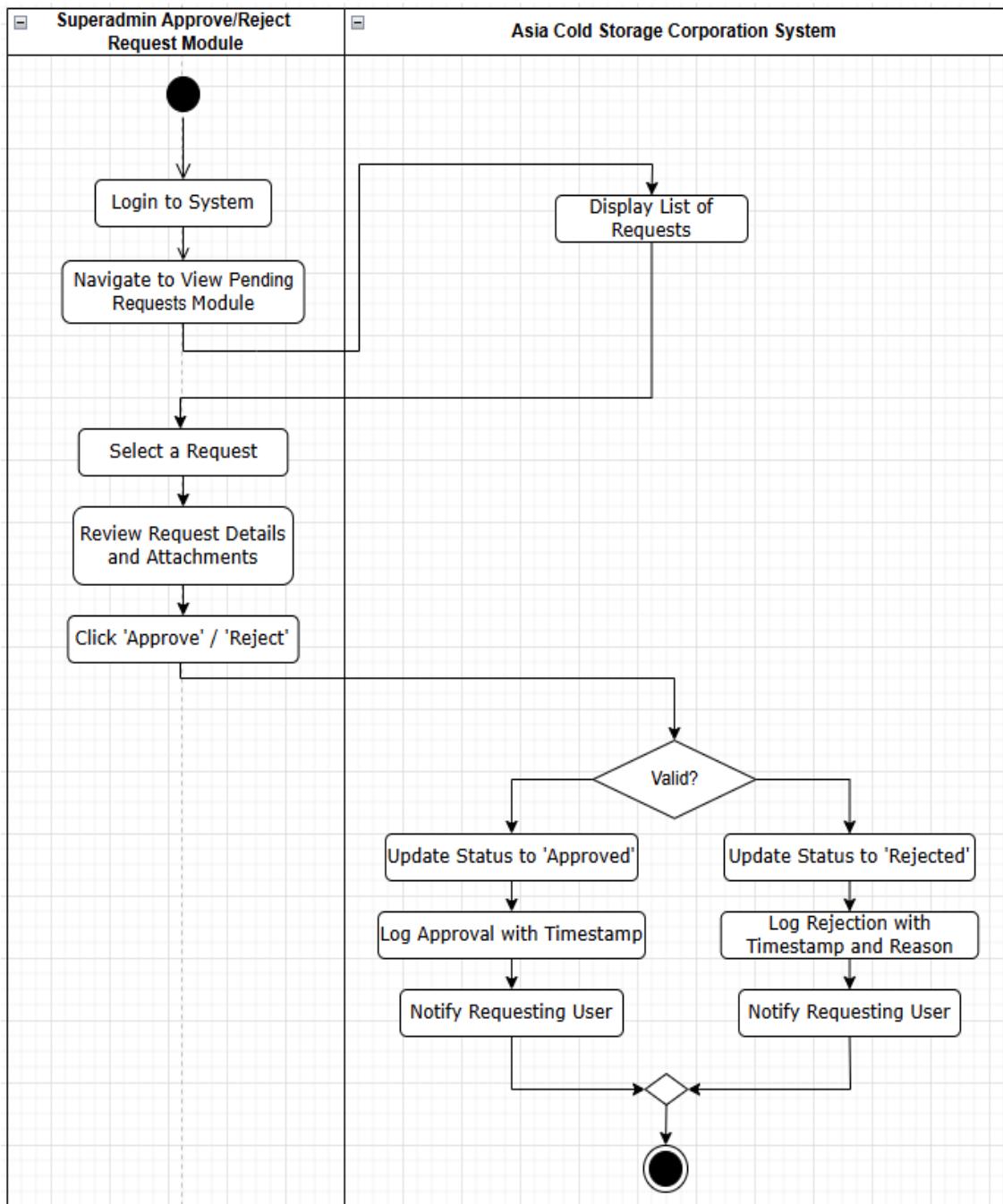


Figure 4.10: Activity Diagram (Approve/Reject Request Process for SuperAdmin)

This diagram specifically details how the SuperAdmin makes approval decisions. After reviewing a request, the SuperAdmin selects either approve or reject. The system records the decision and notifies the relevant team. A confirmation message is shown to the SuperAdmin.

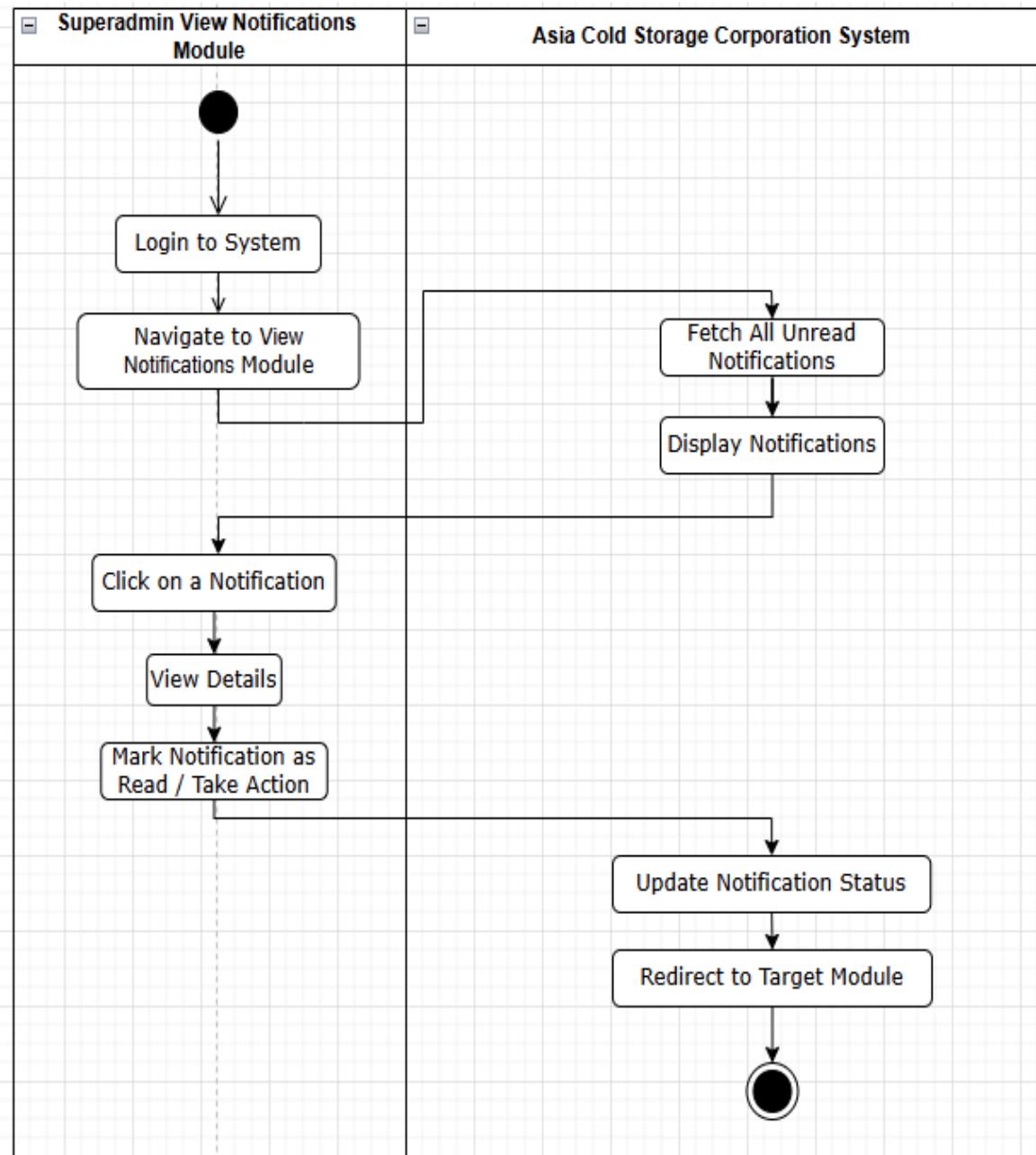


Figure 4.11: Activity Diagram (Notifications Process for SuperAdmin)

This diagram explains how the SuperAdmin receives and manages system notifications. When events such as new requests, assignments, or alerts occur, the system generates notifications automatically. The SuperAdmin views these alerts from the notification panel. After reviewing, they can mark them as read or take necessary action.

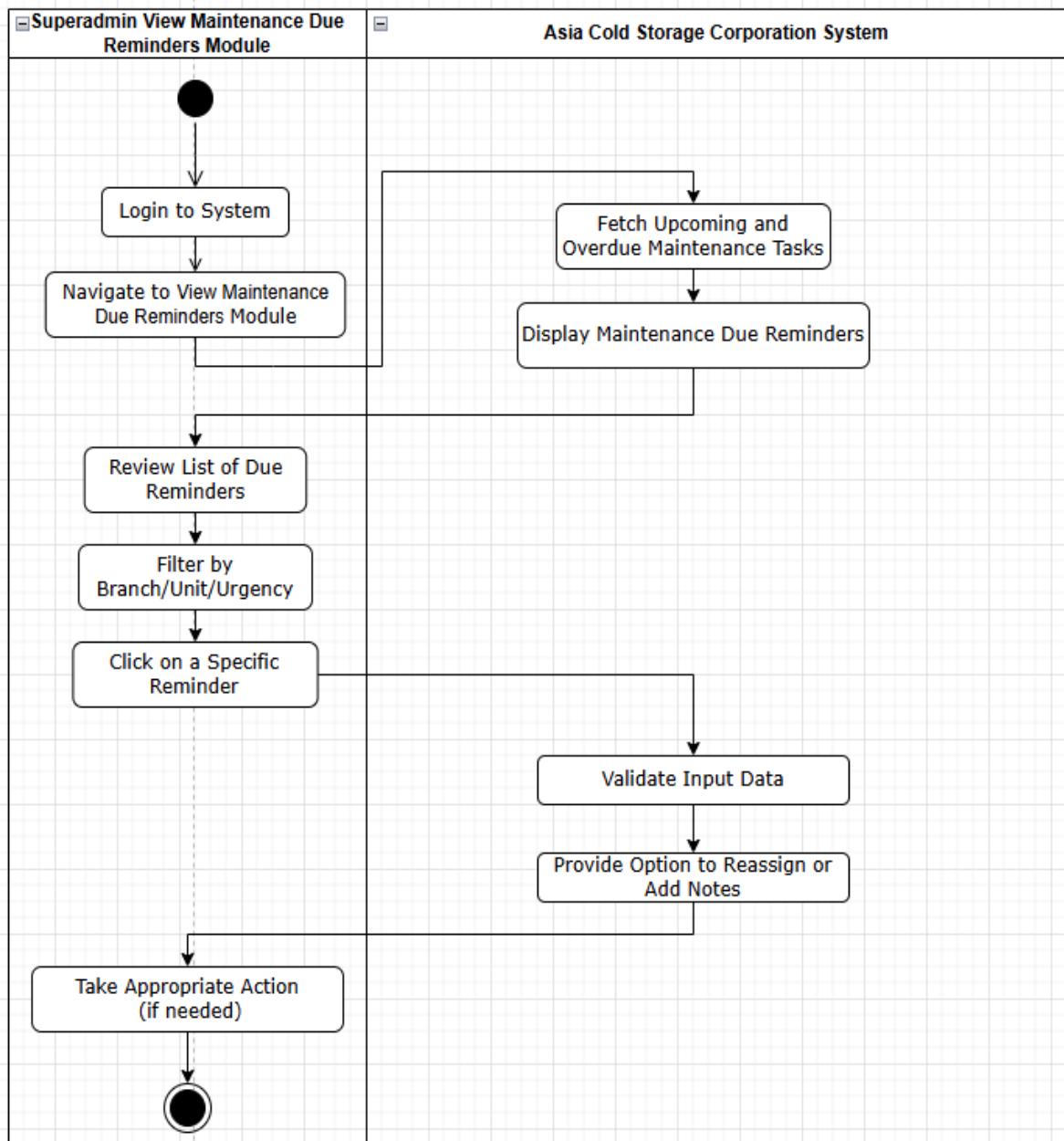


Figure 4.12: Activity Diagram (Maintenance Due Reminders Process for SuperAdmin)

This process shows how the system sends reminders for upcoming or overdue maintenance. The SuperAdmin receives a notification based on the set maintenance cycle. They can view the details and assign or reschedule the task if needed. This ensures maintenance is done on time to prevent equipment issues.

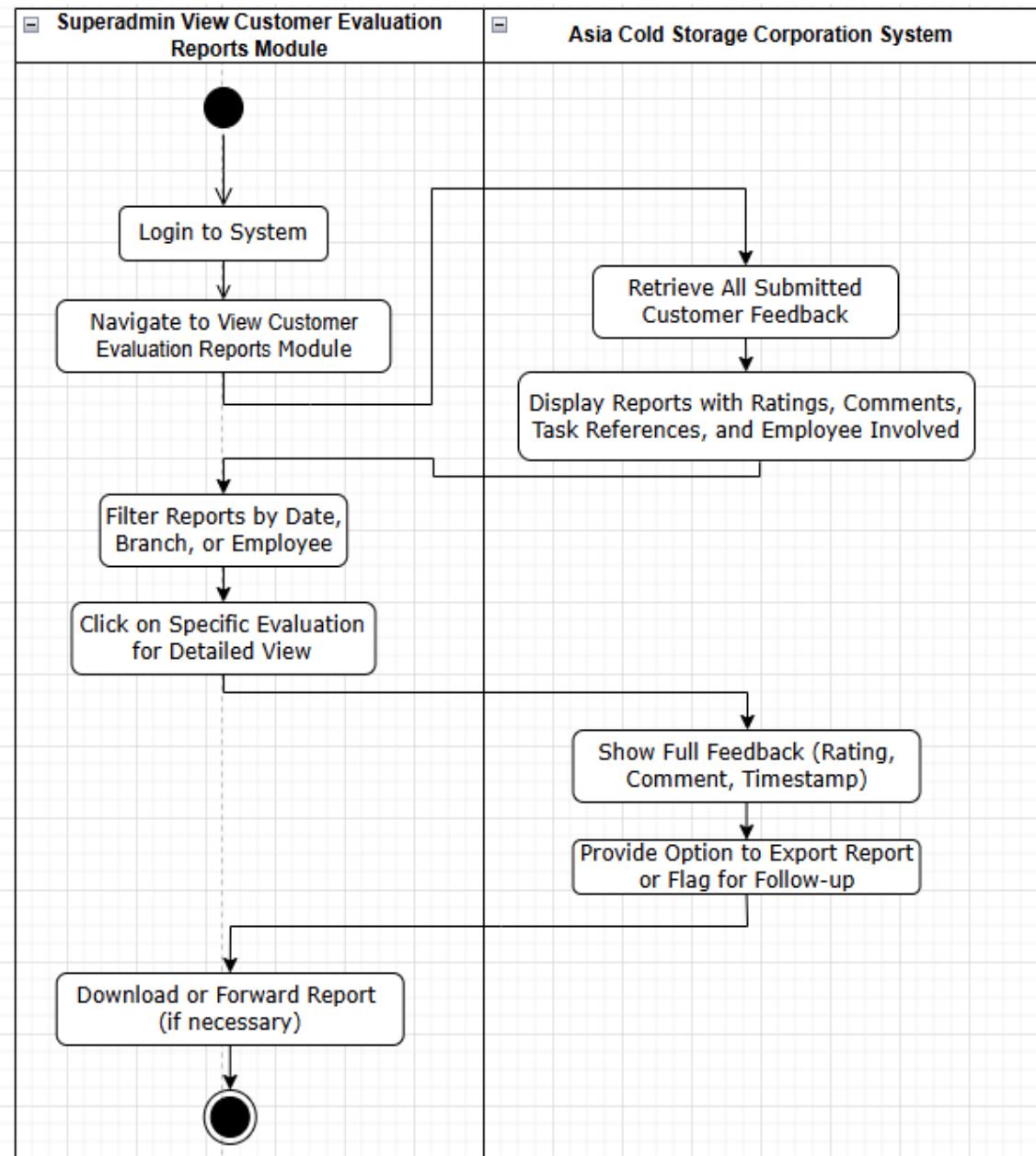


Figure 4.13: Activity Diagram (Customer Evaluation Reports Process for SuperAdmin)

This diagram shows how the SuperAdmin accesses performance feedback from clients. After a service is completed, the customer submits a team evaluation using the team leader's device. The system records this feedback and generates a report. The SuperAdmin reviews the report to assess team effectiveness.

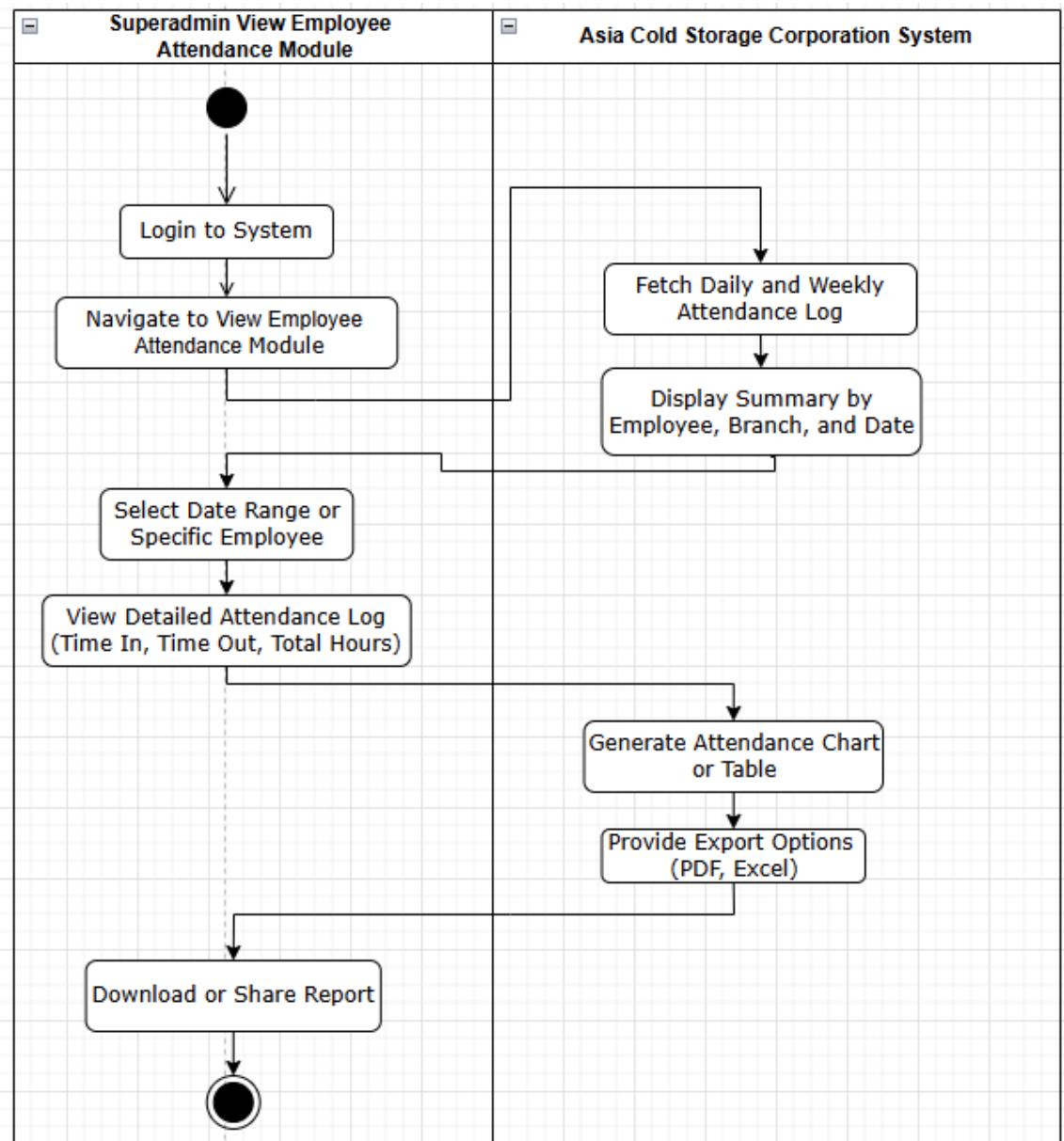


Figure 4.14: Activity Diagram (Employee Attendance Process for SuperAdmin)

This activity shows how the SuperAdmin monitors employee attendance. The system logs time-in and time-out records submitted by users. The SuperAdmin can view these logs to check punctuality and attendance trends. This helps in tracking employee work hours and overall discipline.

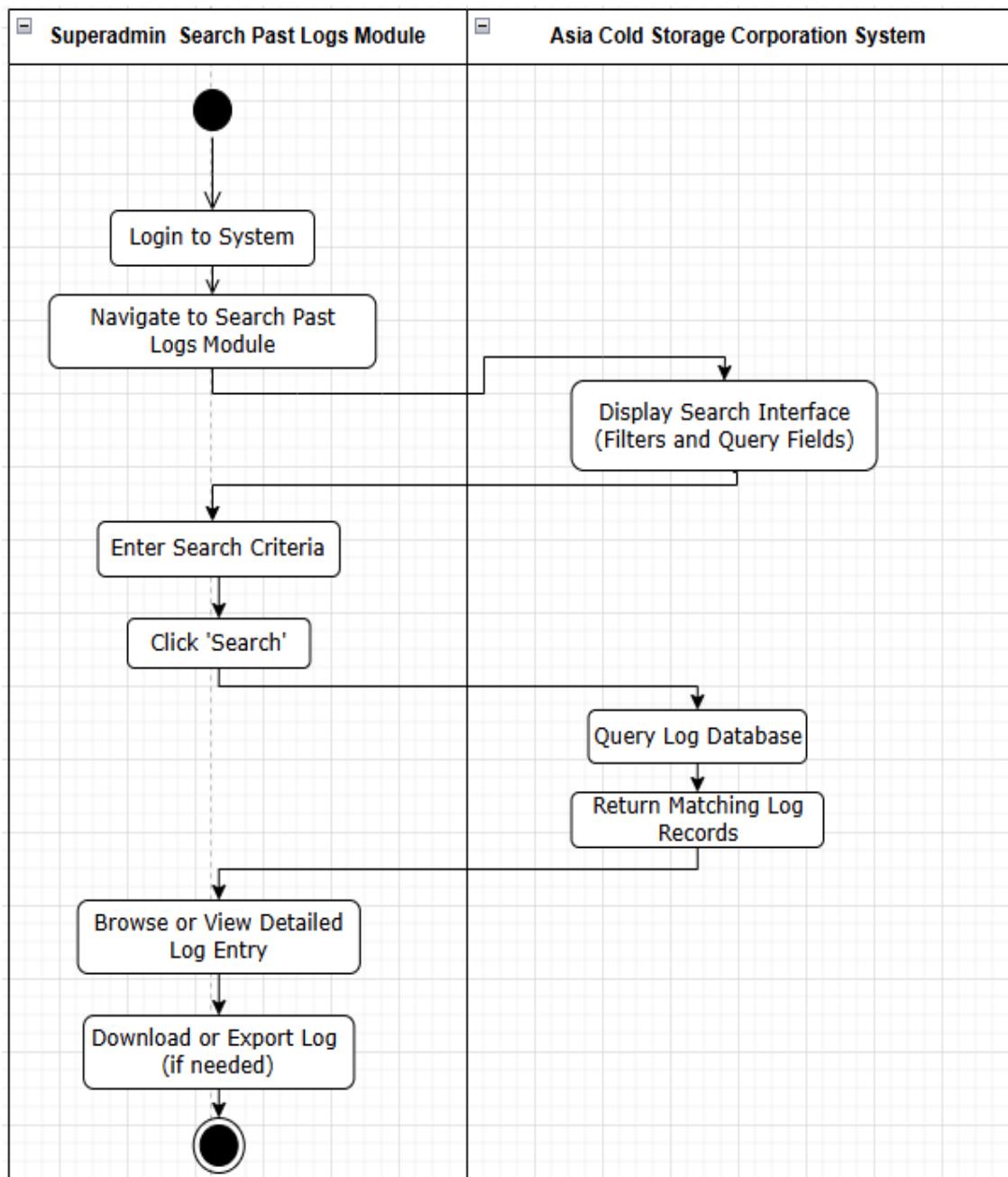


Figure 4.15: Activity Diagram (Search Past Logs Process for SuperAdmin)

This process enables the SuperAdmin to retrieve historical data from the system. They input search parameters such as date range, task type, or user name. The system displays matching maintenance or activity logs. This feature supports audits, reviews, and operational assessments.

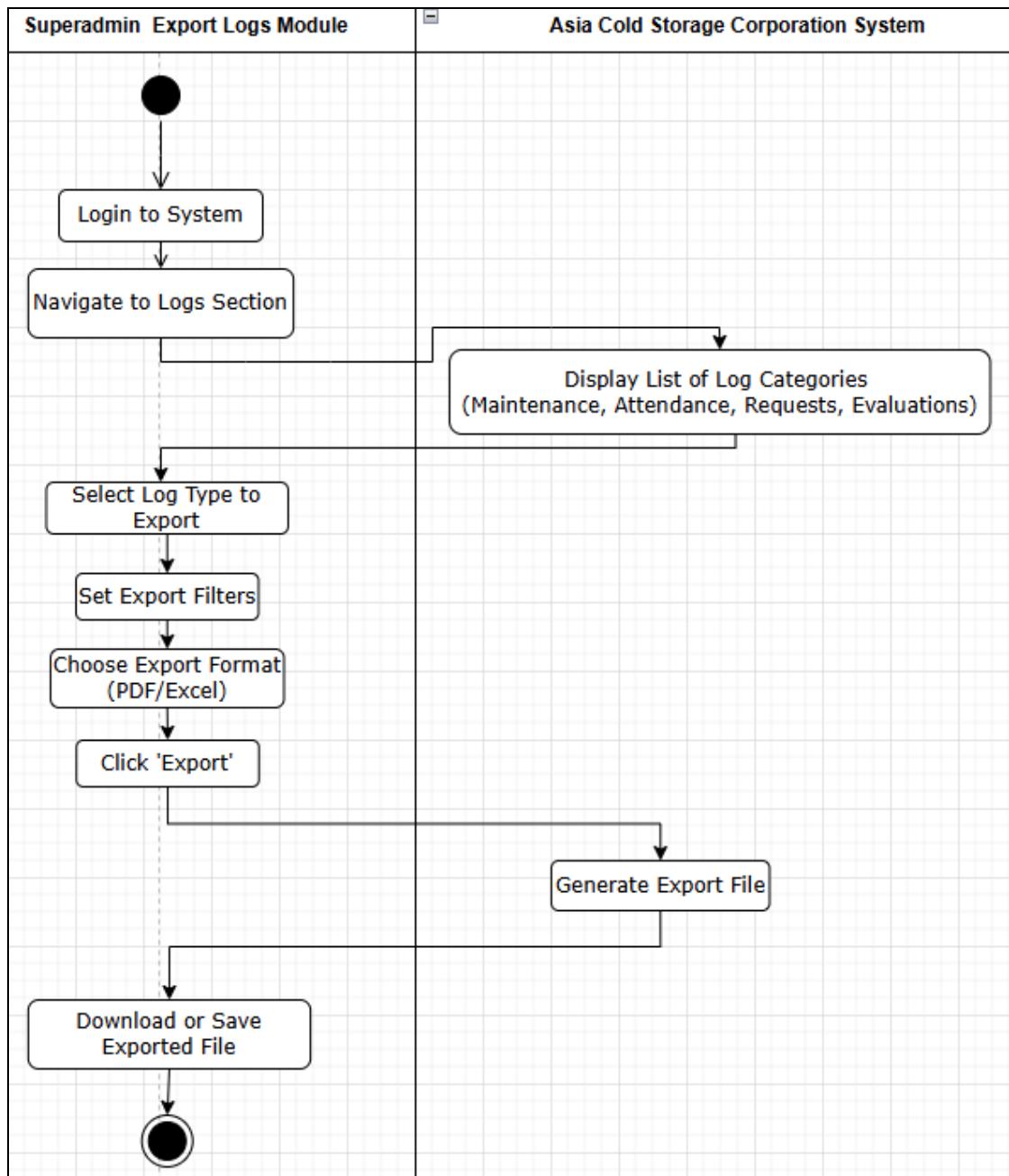


Figure 4.16: Activity Diagram (Export Logs Process for SuperAdmin)

This diagram describes how the SuperAdmin exports records for offline use or reporting. After selecting the desired log type and date range, they initiate the export. The system processes the request and generates a downloadable file, typically in Excel or PDF format. This allows for archiving or external analysis of maintenance data.

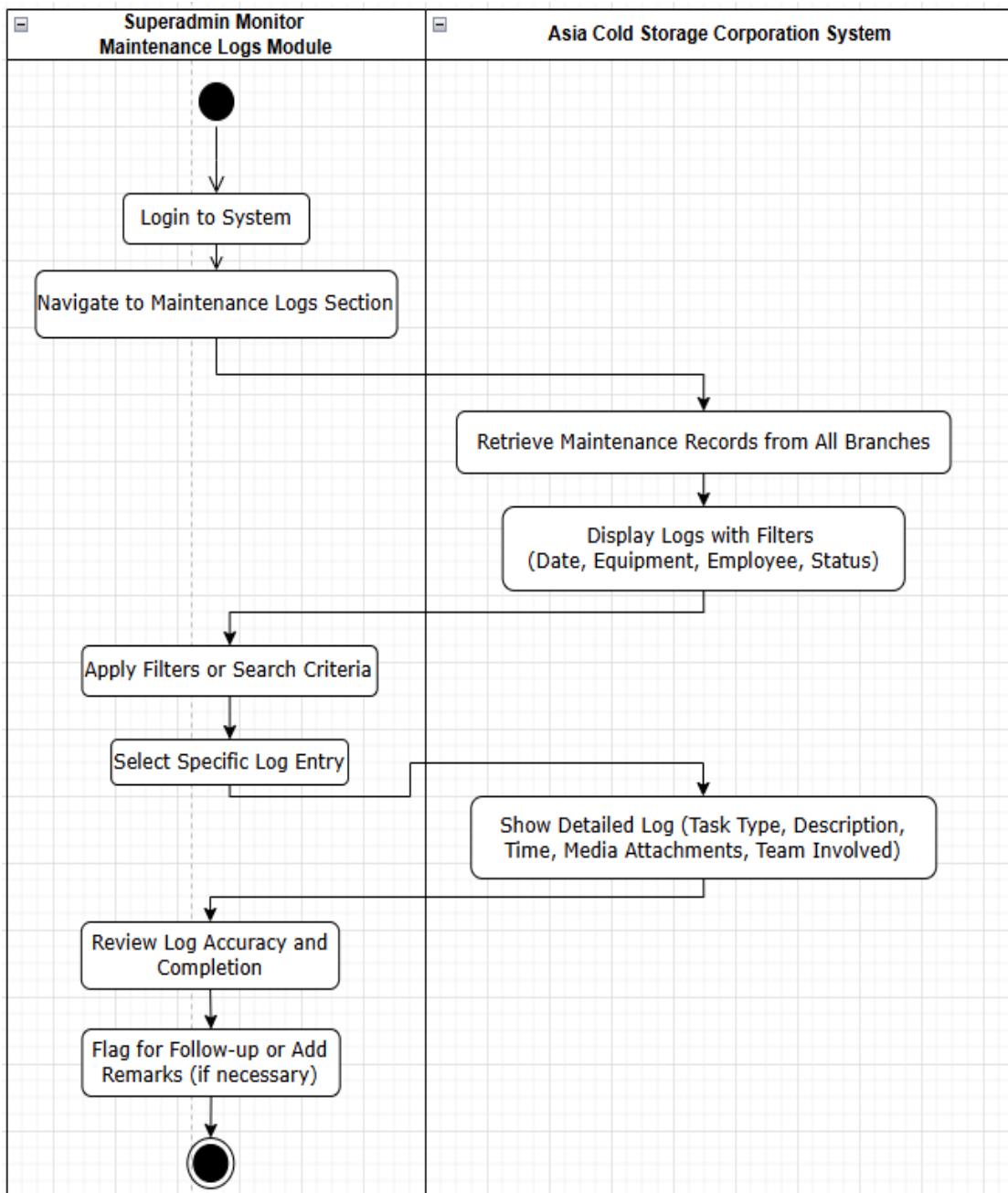


Figure 4.17: Activity Diagram (Monitor Maintenance Logs Process for SuperAdmin)

This process shows how the SuperAdmin reviews ongoing and completed maintenance activities. They can filter logs by employee, branch, or task type. The system displays detailed information for each log, including timestamps, findings, and media uploads. This helps track task completion and team performance.

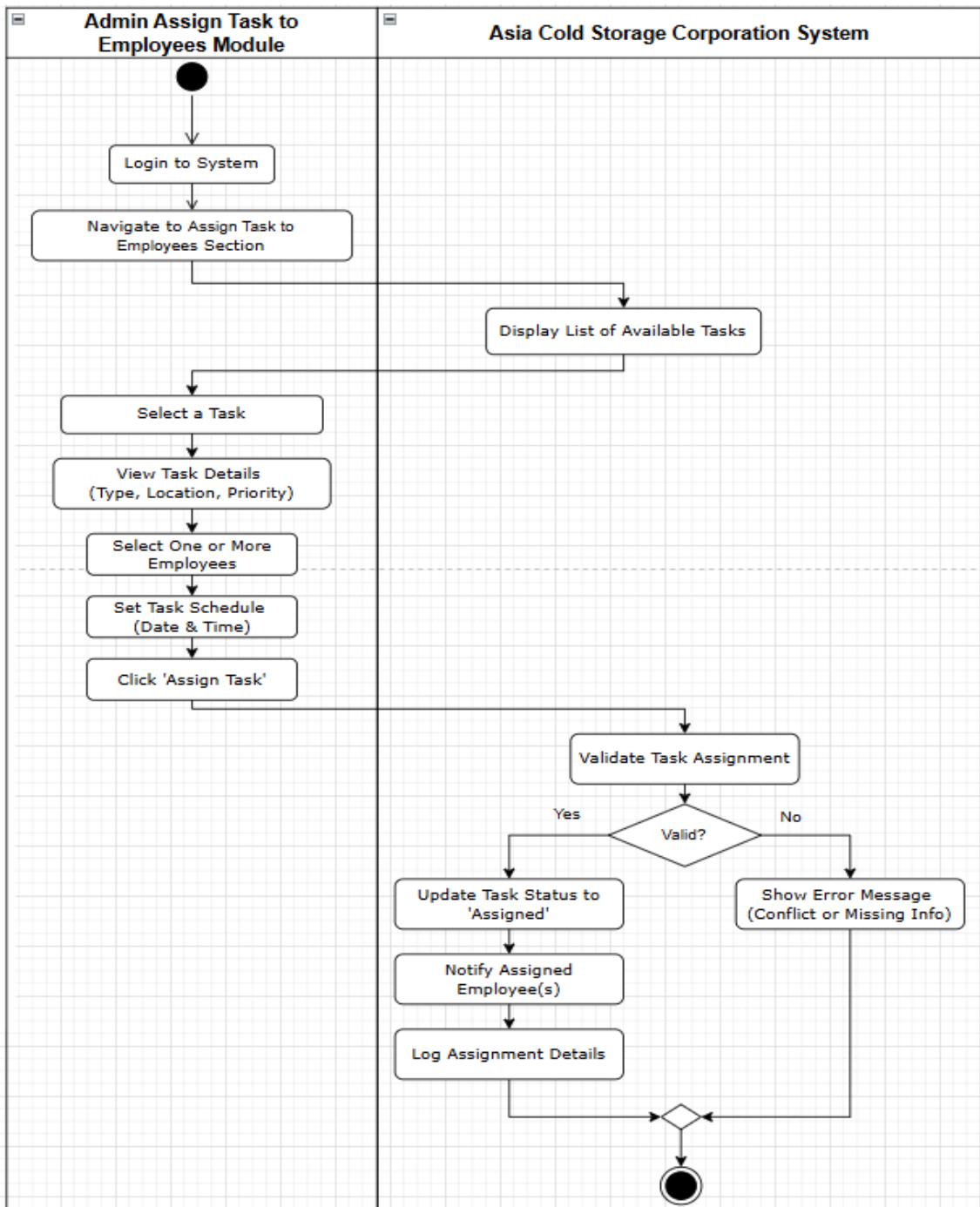


Figure 4.18: Activity Diagram (Assign Task to Employees Process for SuperAdmin)

This diagram outlines how the SuperAdmin assigns tasks to employees across branches. They select the task type, location, and available staff members. The system then notifies the assigned employees and logs the task in the schedule. This ensures clear task distribution and accountability.

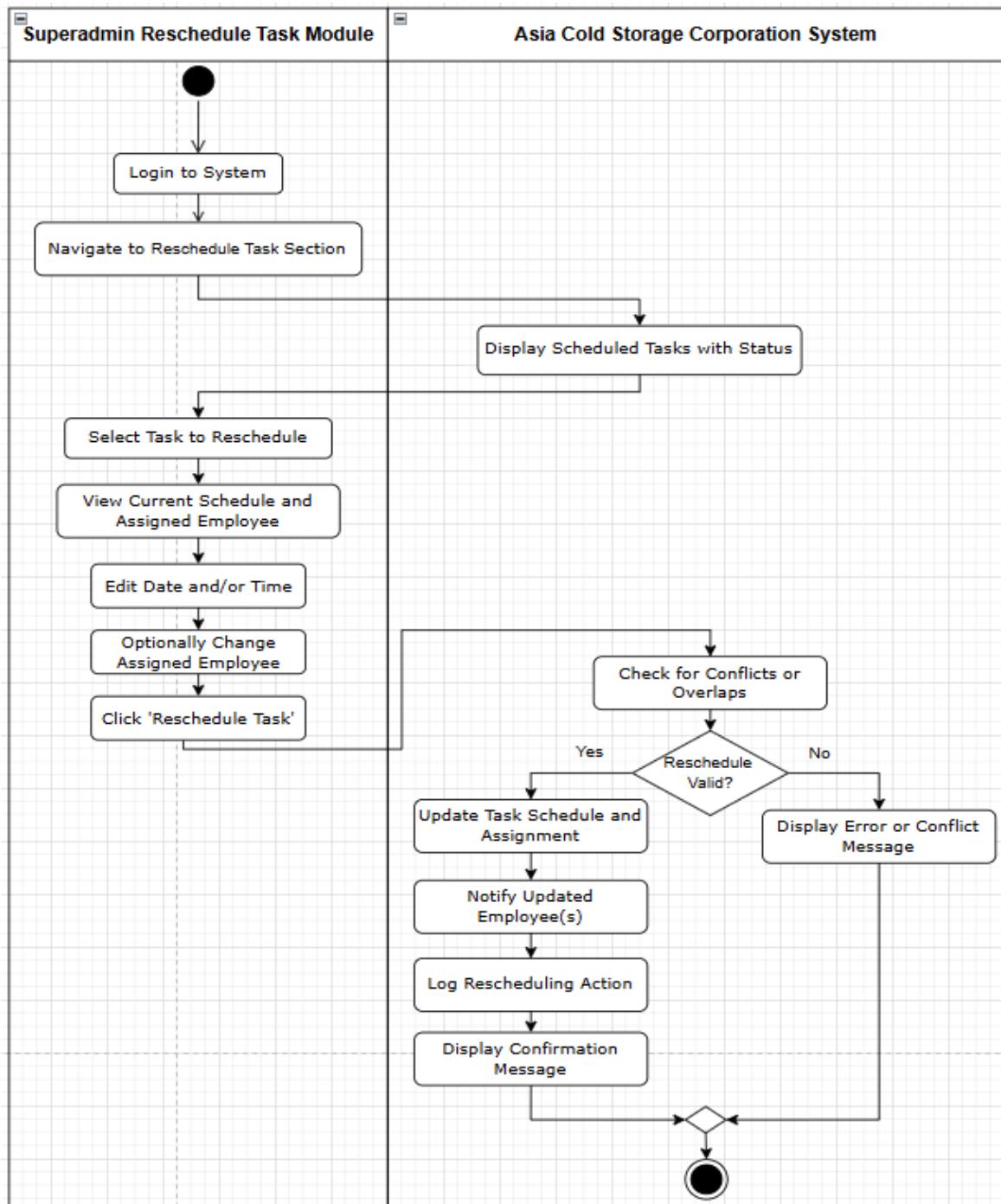


Figure 4.19: Activity Diagram (Reschedule Task Process for SuperAdmin)

This process details how the SuperAdmin changes the timing of an existing task. They select a task from the list and input a new date or time. The system updates the schedule and notifies the affected employees. This helps adapt to changes in availability or priority.

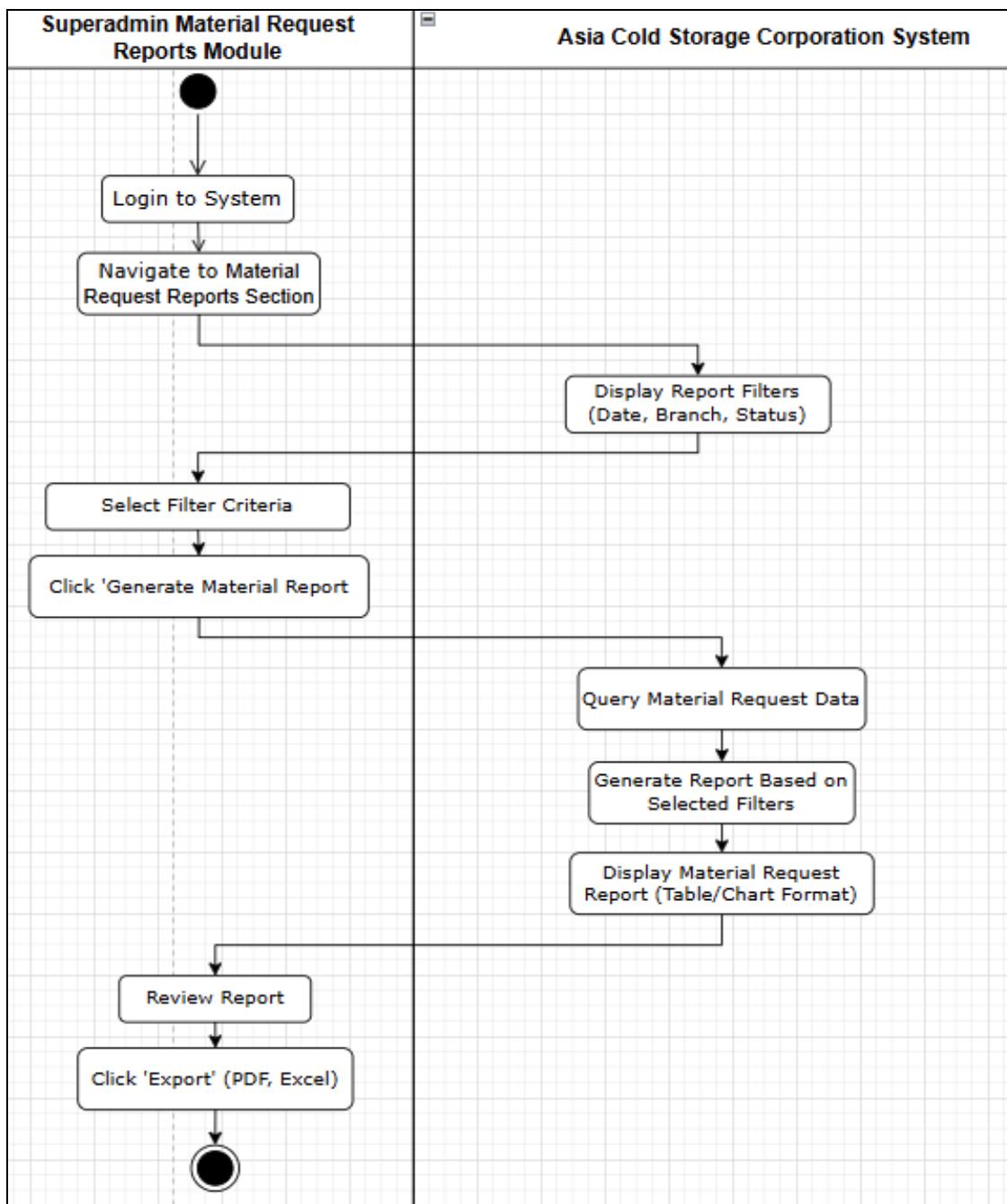


Figure 4.20: Activity Diagram (Material Request Reports Process for SuperAdmin)

This diagram explains how the SuperAdmin reviews reports on requested materials. They can view summaries showing request status, item quantity, and branch origin. The system provides options to filter or sort data by date, employee, or approval outcome. This aids in tracking material usage and procurement efficiency.

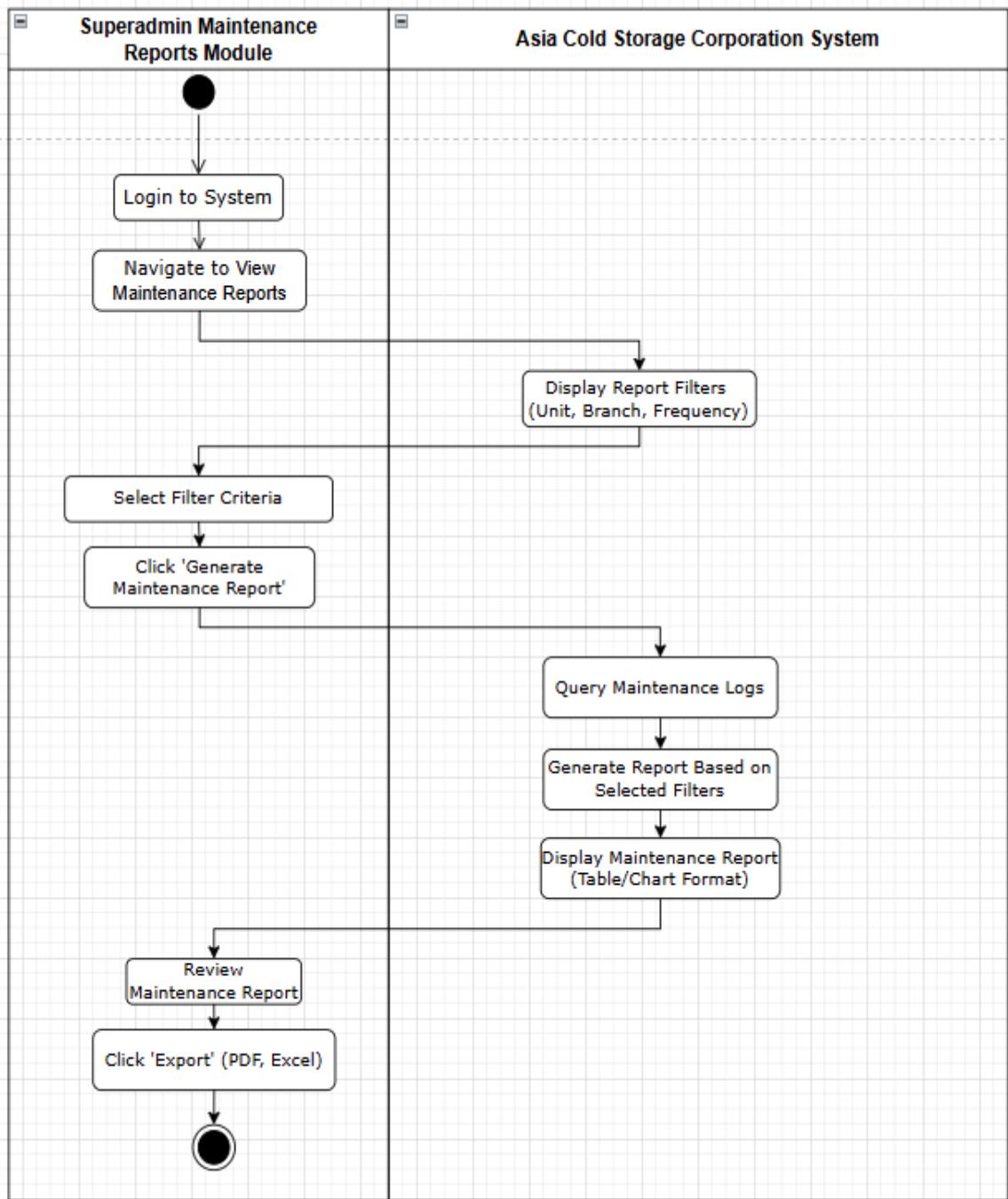


Figure 4.21: Activity Diagram (Maintenance Reports Process for SuperAdmin)

This diagram shows how the SuperAdmin generates reports summarizing maintenance activities. They select criteria such as date, task type, or location. The system compiles the data into a report format that highlights task volume, duration, and outcomes. These reports help in evaluating maintenance performance and trends.

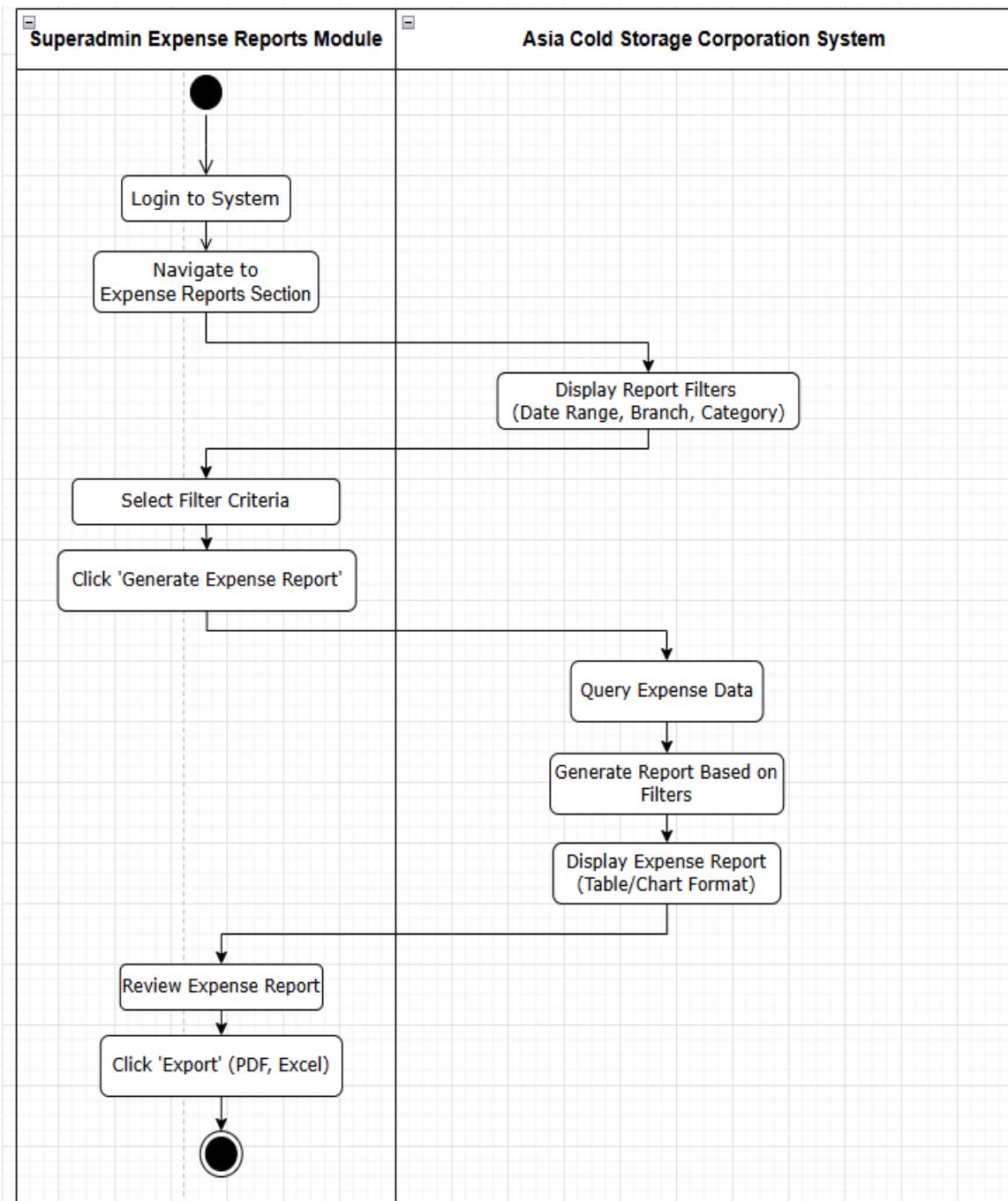


Figure 4.22: Activity Diagram (Expense Reports Process for SuperAdmin)

This process involves viewing financial data related to maintenance tasks and materials. The SuperAdmin selects a time period or project to analyze expenses. The system presents a breakdown of costs, including labor and materials. This helps in budgeting, financial planning, and identifying cost-saving opportunities.

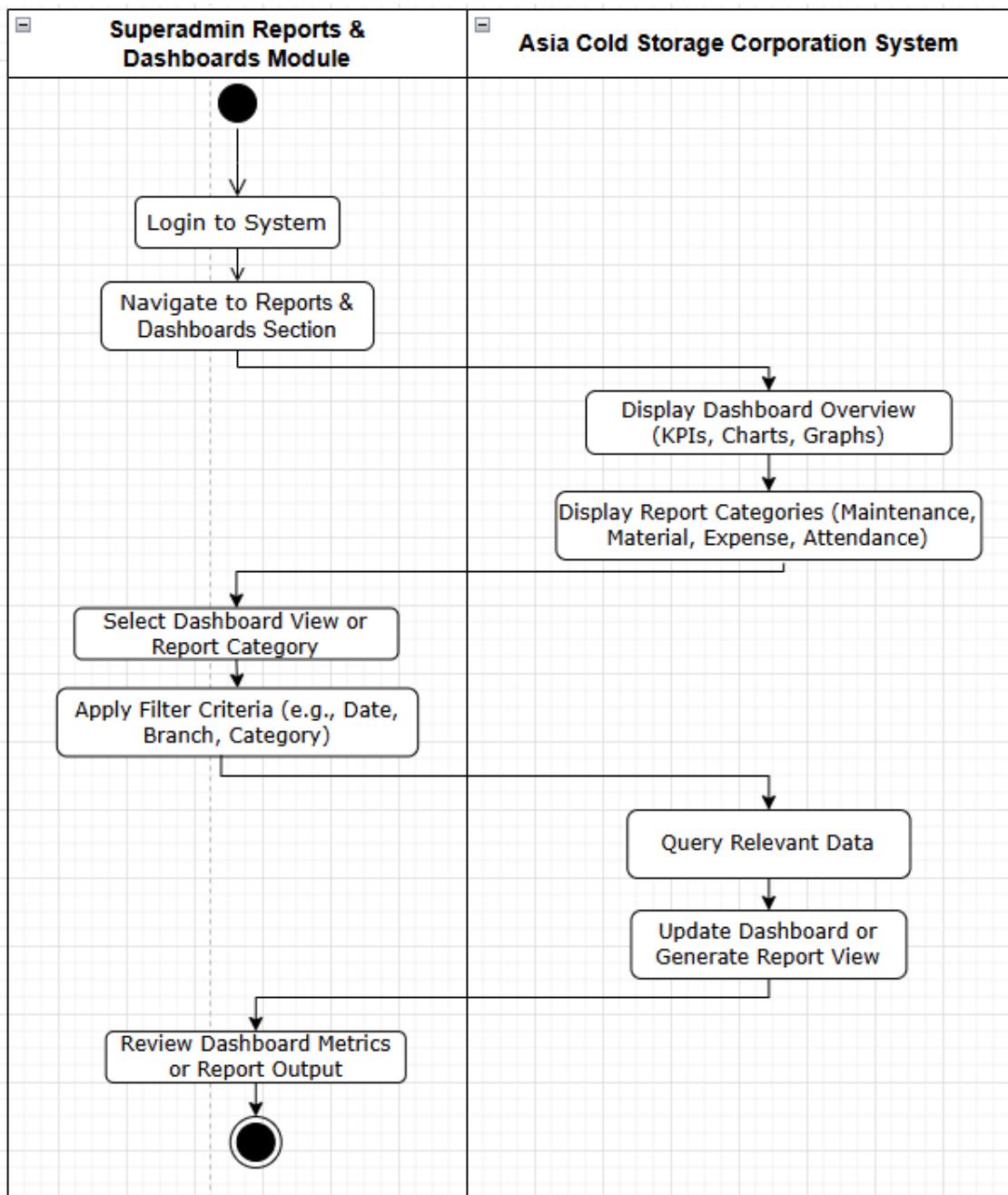


Figure 4.23: Activity Diagram (Reports & Dashboards Process for SuperAdmin)

This diagram outlines how the SuperAdmin accesses visual summaries of system activity. They can view dashboards showing key metrics such as task completion rates, employee attendance, and approval statistics. The system updates these visuals in real-time based on logged data. This allows for quick insights and informed decision-making.

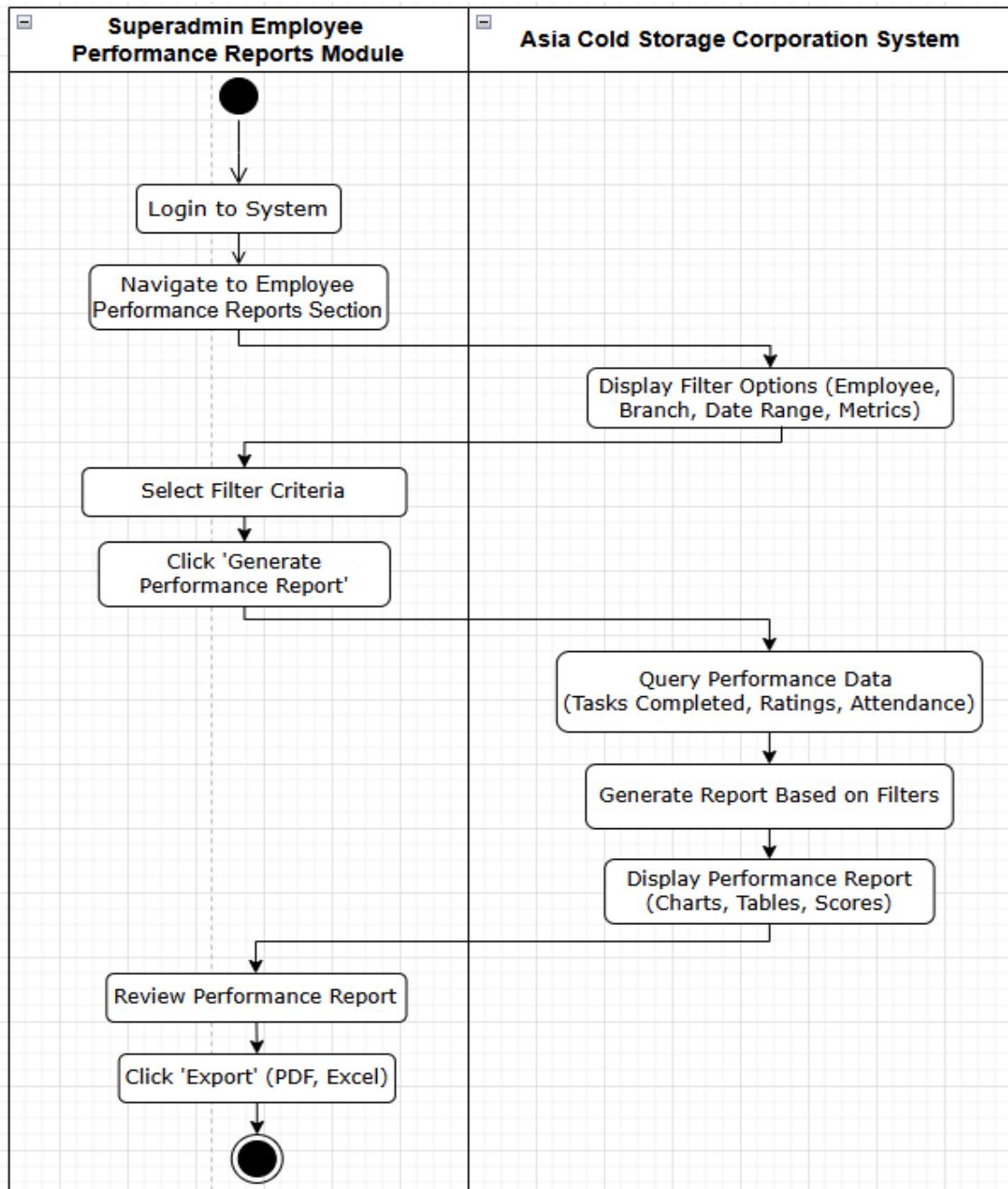


Figure 4.24: Activity Diagram (Reports & Dashboards Process for SuperAdmin)

This diagram shows how the SuperAdmin reviews employee performance across different tasks and time periods. They can filter reports by employee, branch, or role to view attendance, task completion, and customer feedback. The system generates charts and summaries to highlight high performers or areas that need improvement. This helps the SuperAdmin make informed decisions on rewards, training, or reassignments.

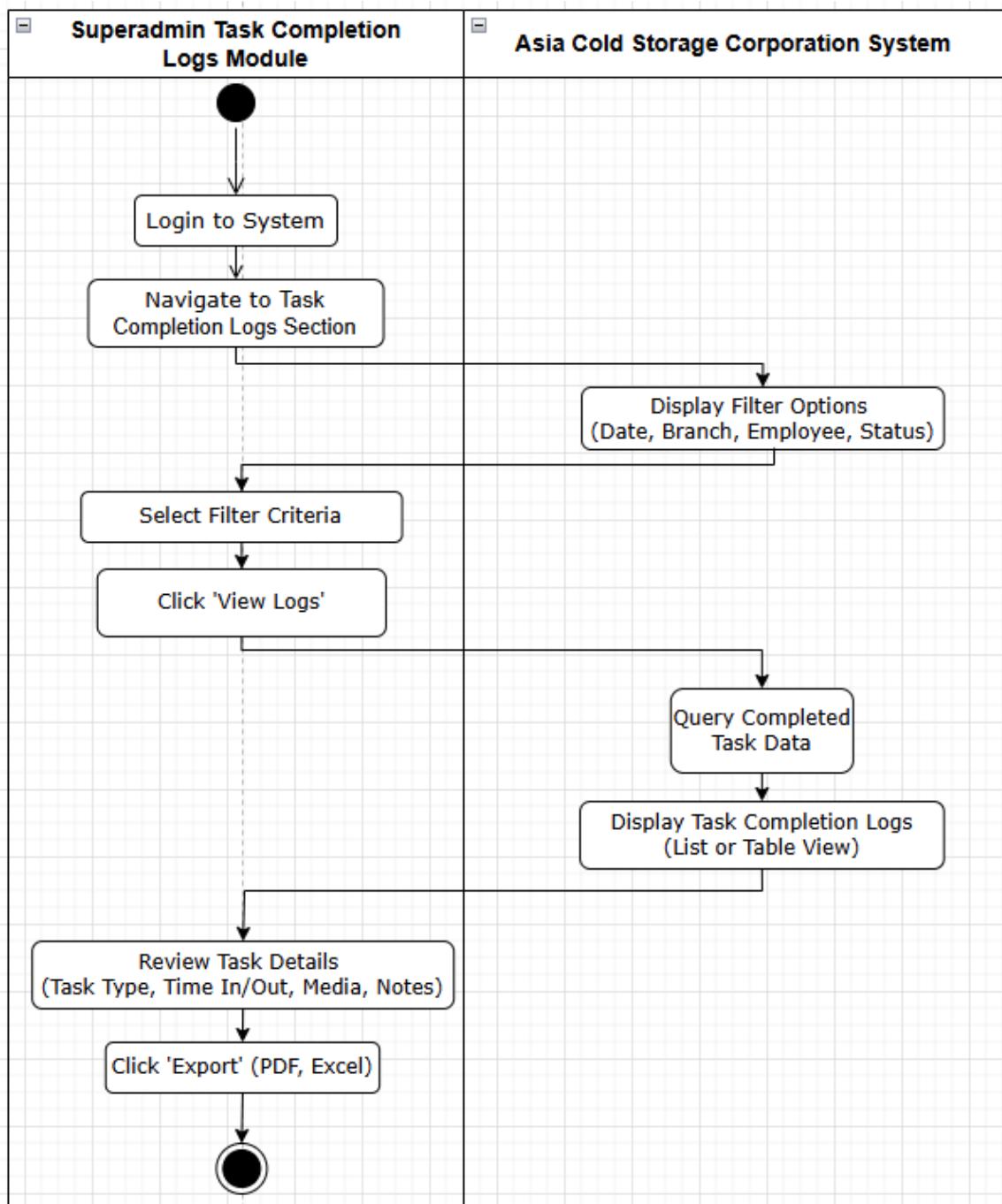


Figure 4.25: Activity Diagram (Task Completion Logs Process for SuperAdmin)

This diagram details how the SuperAdmin reviews completed tasks. They can search for logs by employee, date, or task type. The system displays records including notes, timestamps, and any media submitted. These logs support performance evaluation and operational transparency.

Admin

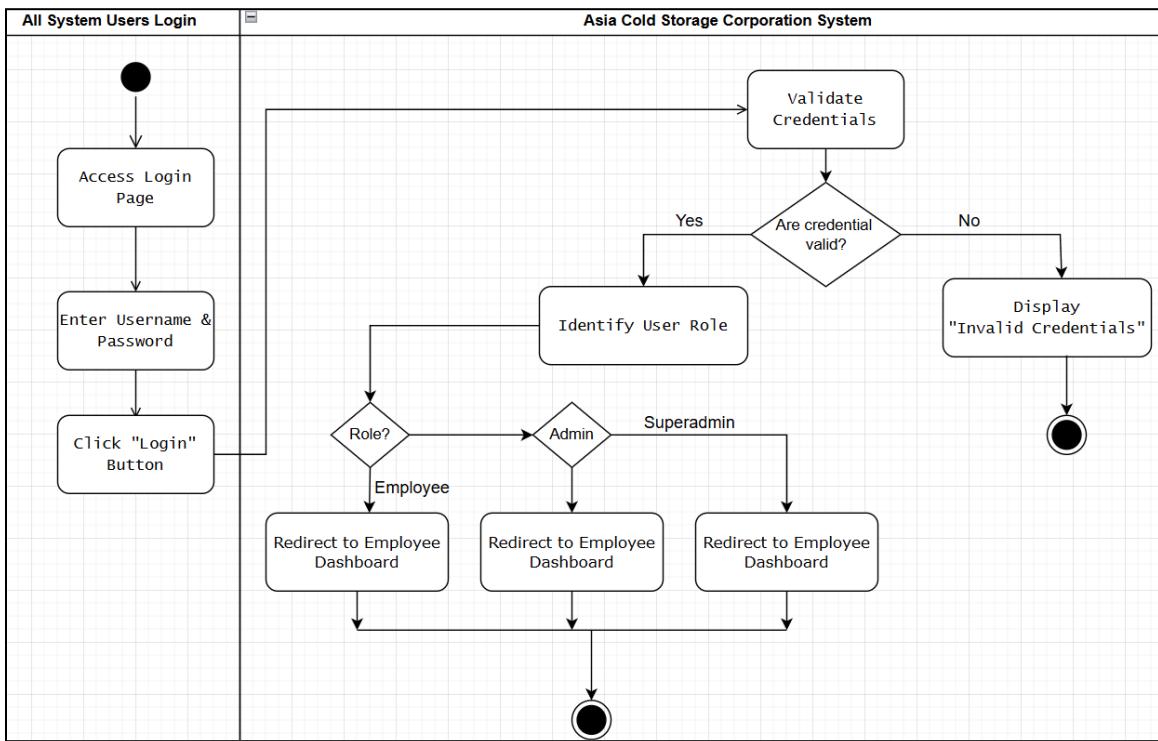


Figure 4.26: Activity Diagram (Login Process for Admin)

This diagram shows how the Admin logs into the system. They enter their username and password, and the system checks if it matches the records. If correct, they are directed to the Admin dashboard. If not, they receive an error message and are prompted to try again.

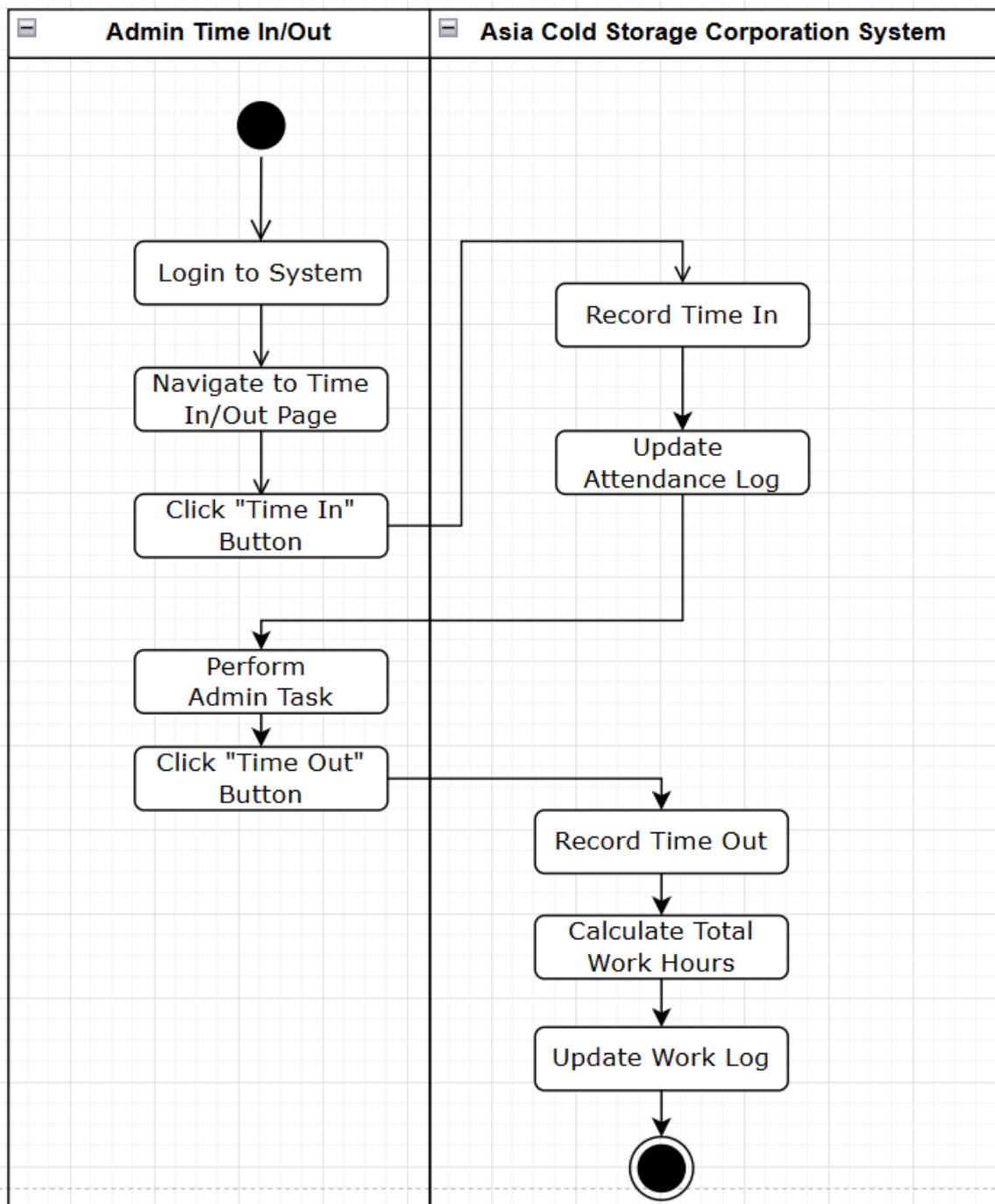


Figure 4.27: Activity Diagram (Time In/Out Process for Admin)

This process lets the Admin record when they start or end their workday. By clicking either "Time In" or "Time Out," the system saves the current time. A confirmation appears to show that their attendance was recorded.

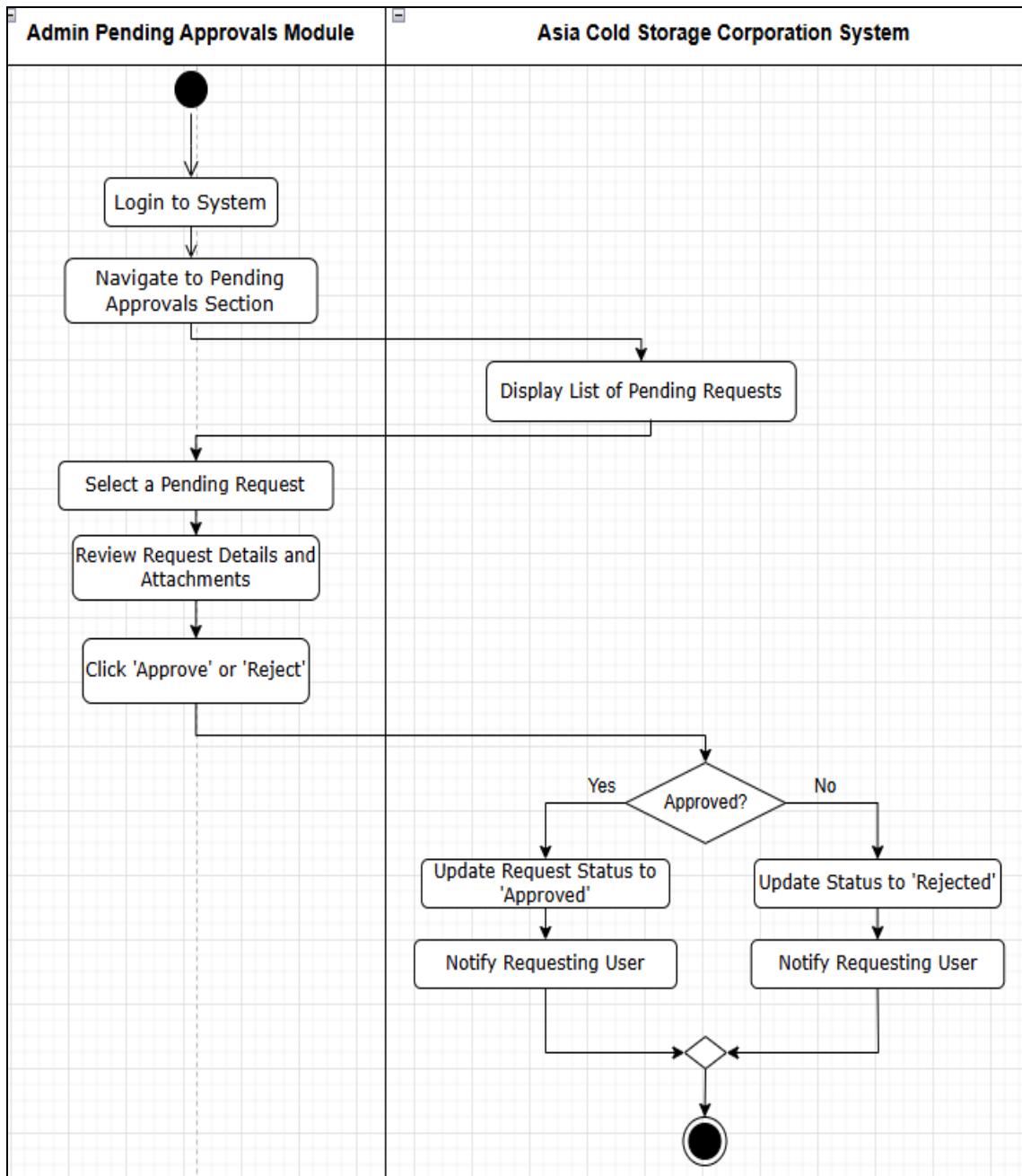


Figure 4.28: Activity Diagram (Pending Approvals Process for Admin)

Here, the Admin checks a list of requests that need approval, like material or task updates. They review the details and decide to approve or reject based on the provided info. Once they act, the request status is updated in the system. A notification is then sent to the employee who made the request.

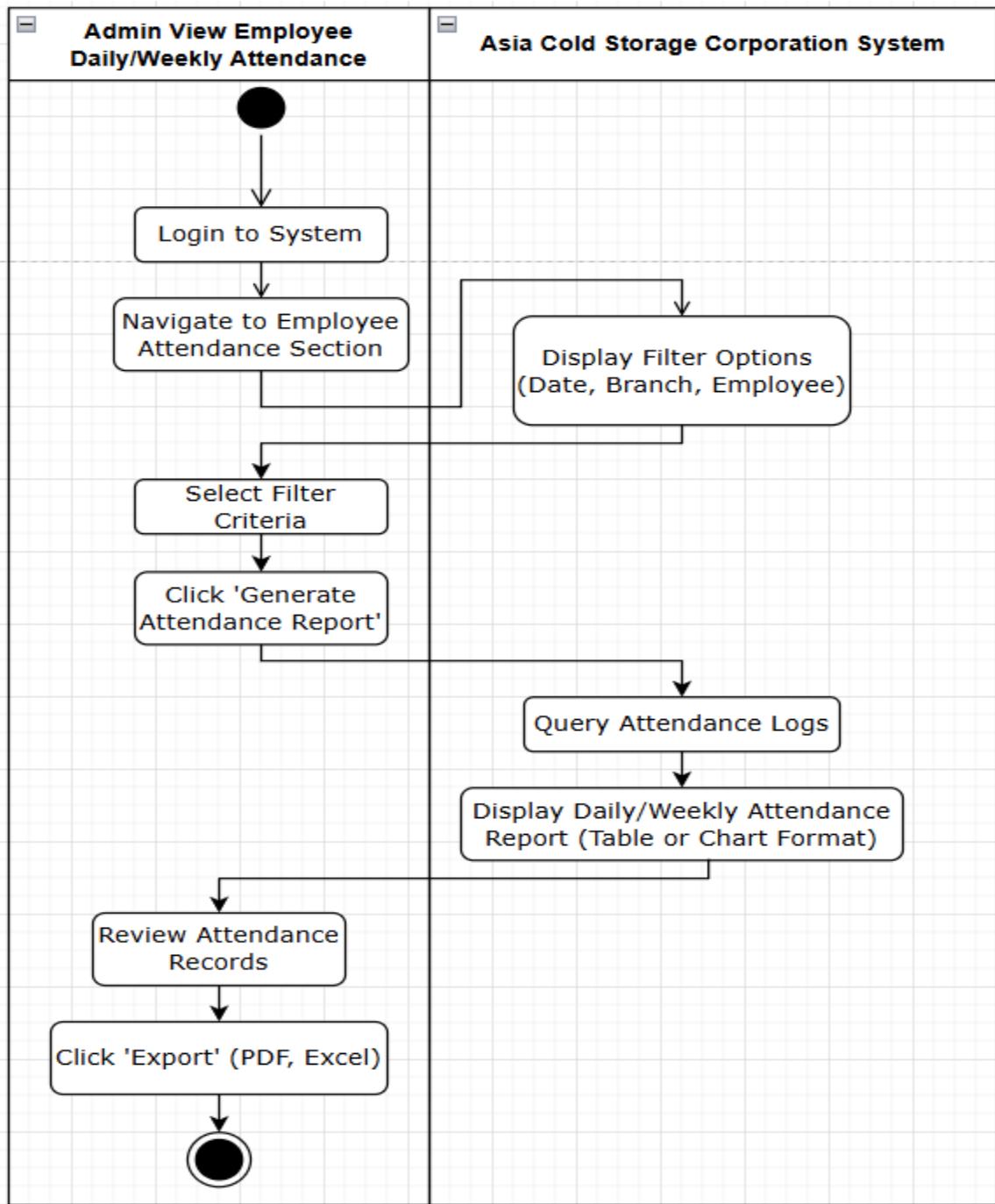


Figure 4.29: Activity Diagram (View Employee Attendance Process for Admin)

This diagram shows how the Admin monitors attendance records of employees. They can view time in/out logs, filter by date, or search by employee name. The system displays the data in a neat, readable format. This helps the Admin track punctuality and spot trends or issues.

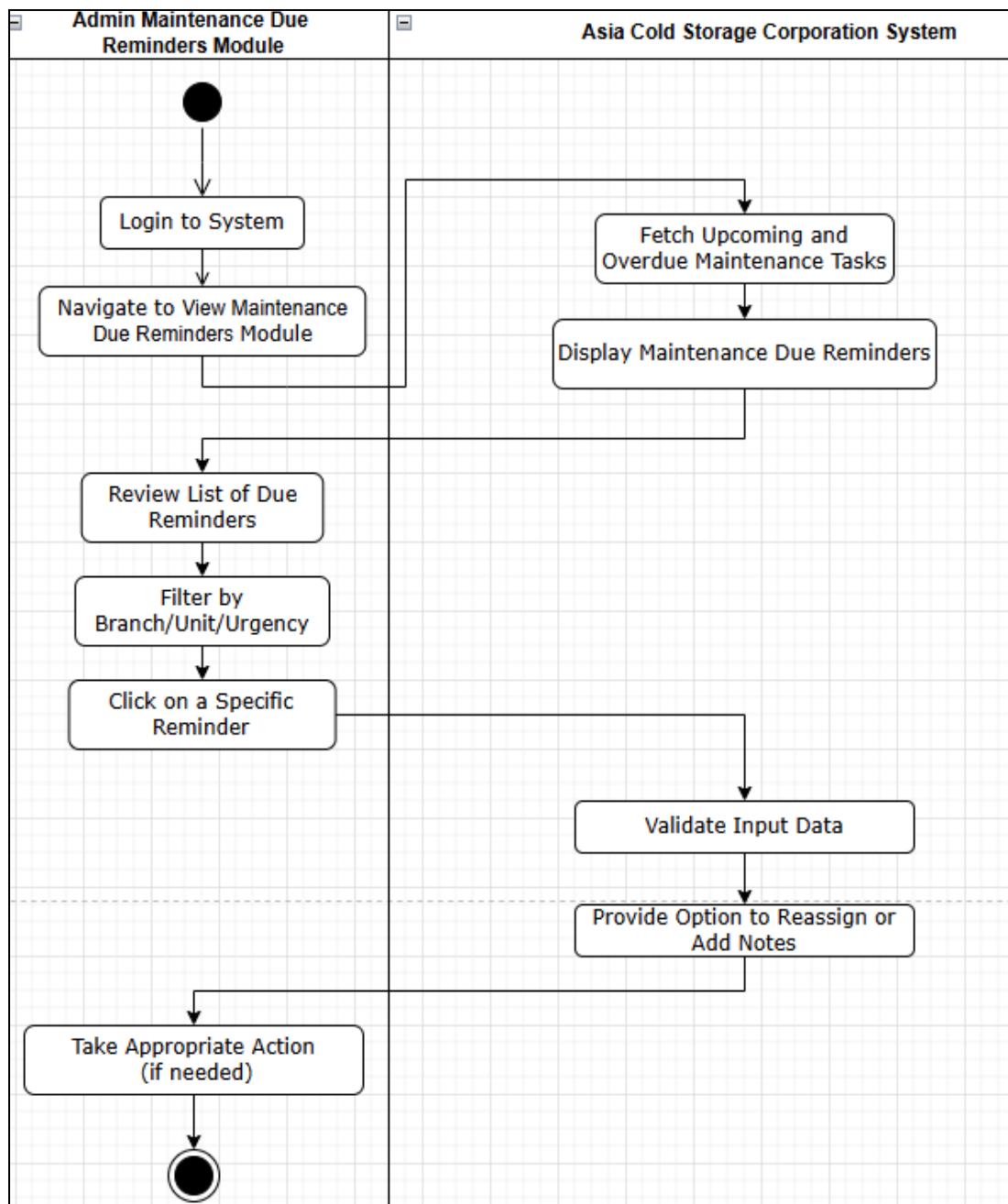


Figure 4.30: Activity Diagram (Maintenance Due Reminders Process for Admin)

This diagram outlines how the Admin gets alerts for upcoming or overdue maintenance tasks. The system checks the schedule and sends reminders when action is needed. The Admin can then assign tasks or adjust the schedule accordingly. This keeps maintenance from being missed or delayed.

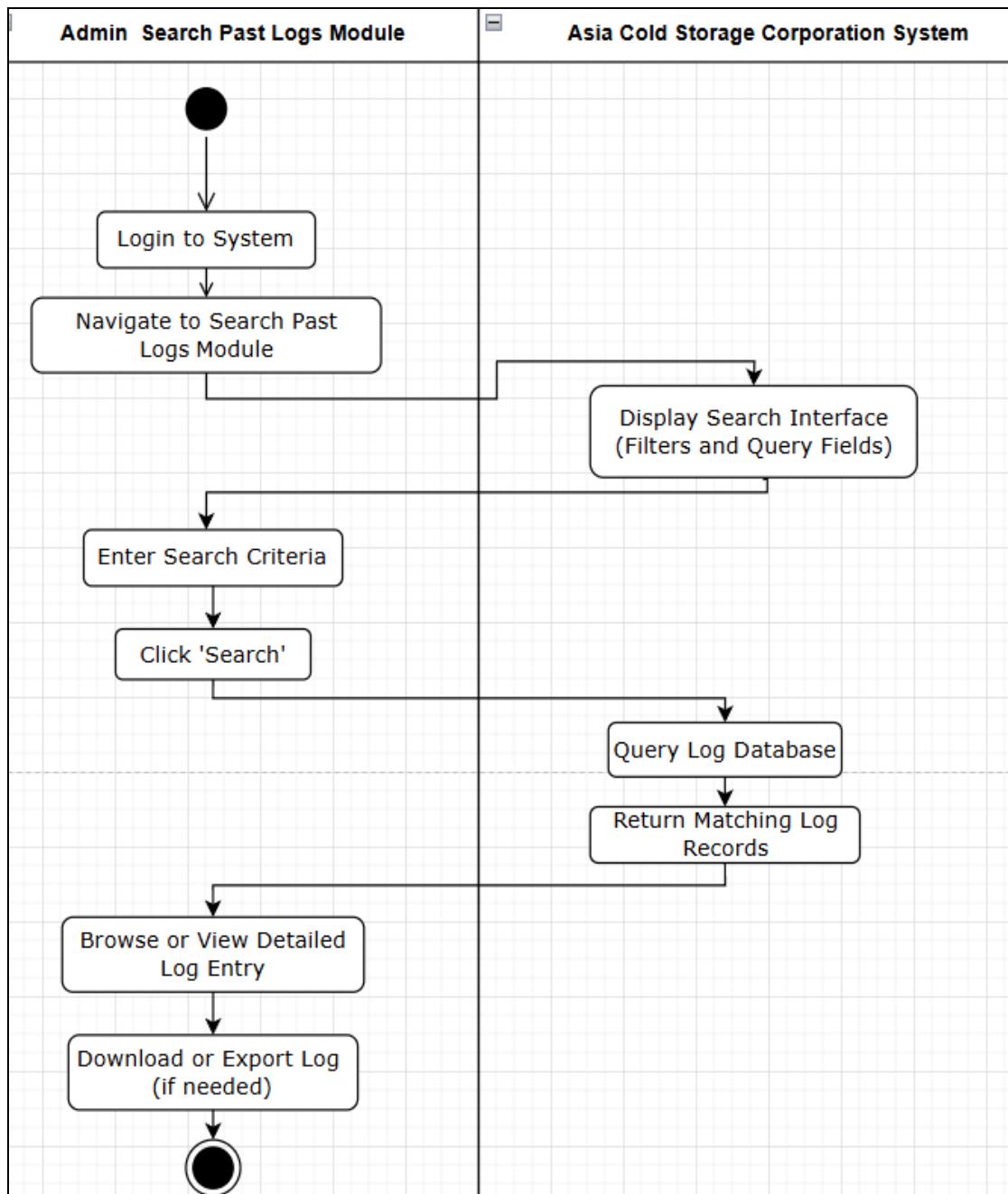


Figure 4.31: Activity Diagram (Search Past Logs Process for Admin)

This diagram shows how the Admin searches for older task records or maintenance logs. They can enter keywords, select filters like date or task type, and the system pulls up matching entries. This helps them quickly find specific activities or verify task completion. It's especially useful for reports or reviews.

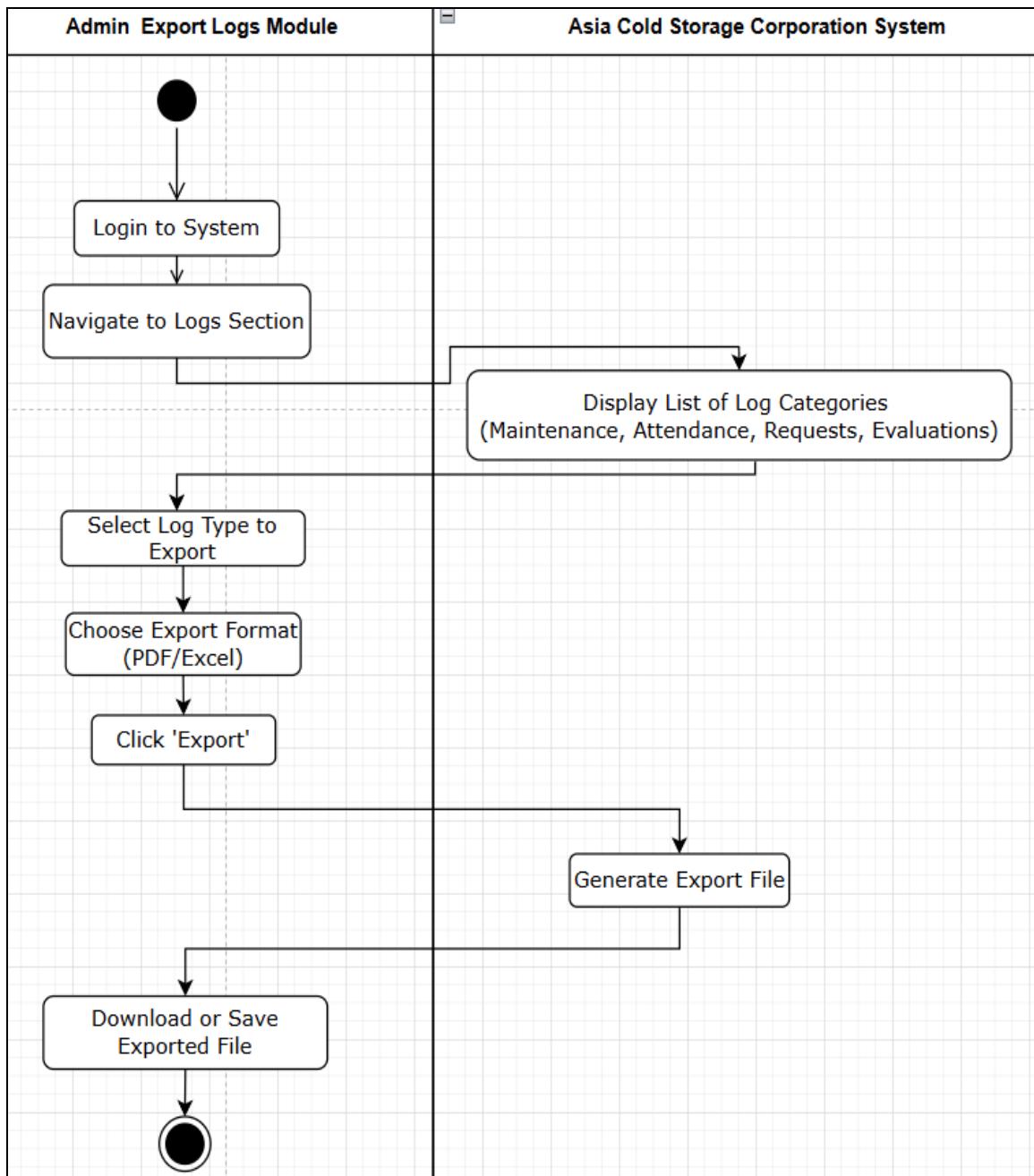


Figure 4.32: Activity Diagram (Export Logs Process for Admin)

This process allows the Admin to download records from the system. They choose what kind of logs they want like maintenance, attendance, or task history and pick a format like PDF or Excel. The system processes the request and creates a downloadable file. It's a convenient way to store or share data offline.

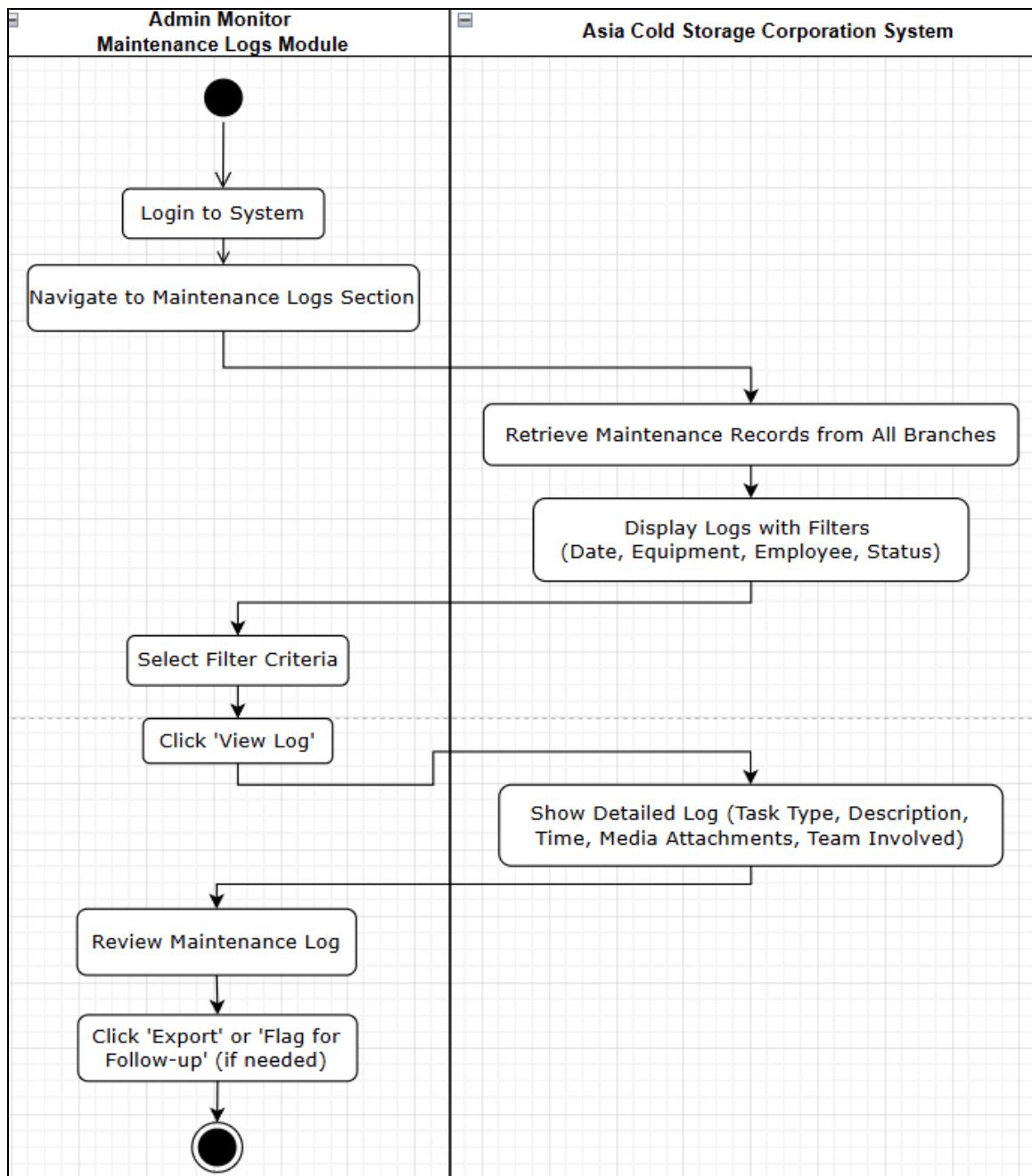


Figure 4.33: Activity Diagram (Monitor Maintenance Logs Process for Admin)

This diagram explains how the Admin tracks all ongoing and completed maintenance jobs. They can see who did what, when, and what the outcome was complete with notes and uploaded media. This gives them a real-time view of field operations. It helps ensure accountability and service quality.

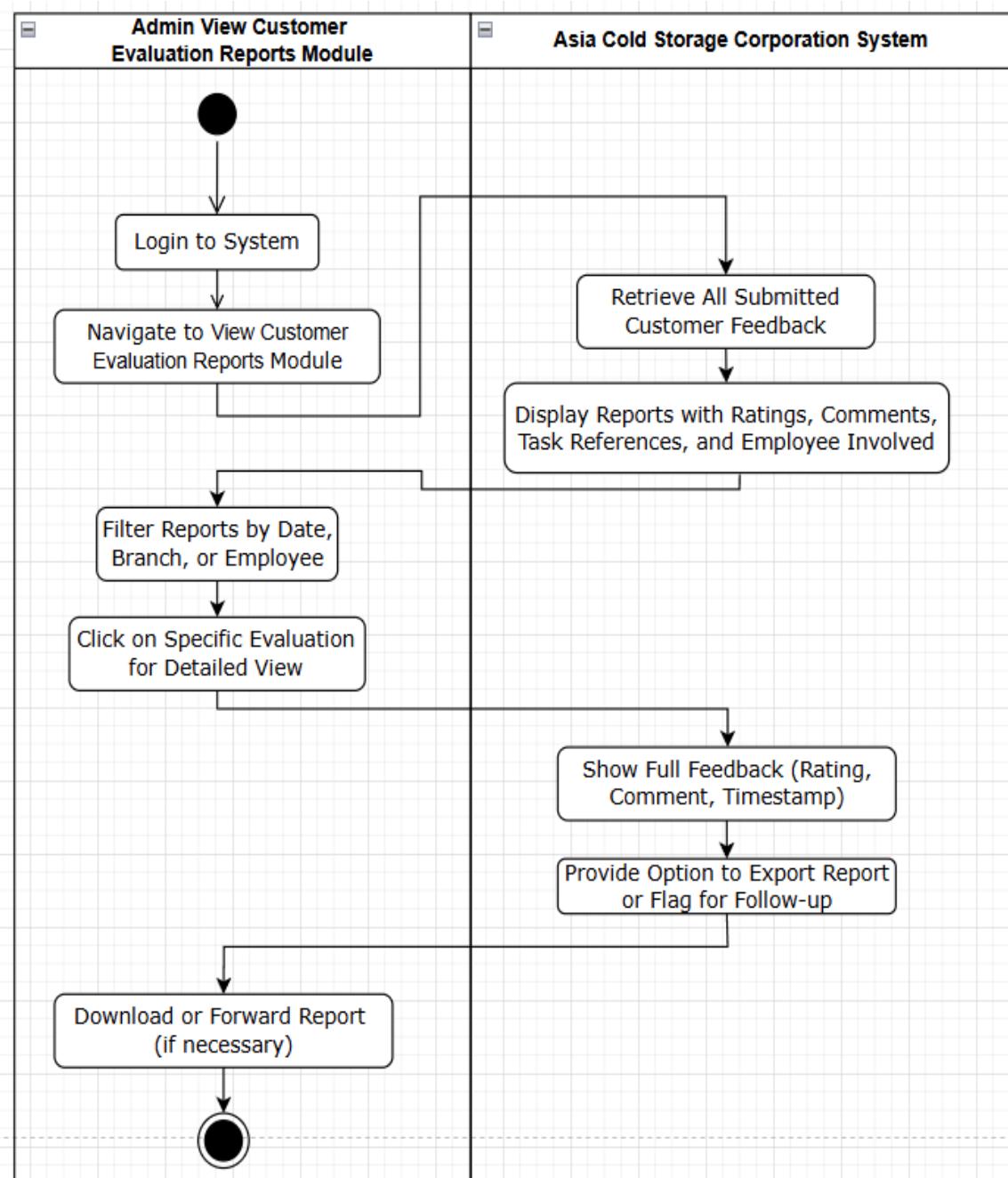


Figure 4.34: Activity Diagram (Customer Evaluation Reports Process for Admin)

This diagram shows how Admins can view customer feedback given after a service. Once clients submit their evaluations through the team leader's device, the system stores the responses. Admins can then review scores and comments to assess how the team performed. This insight supports both recognition and improvement.

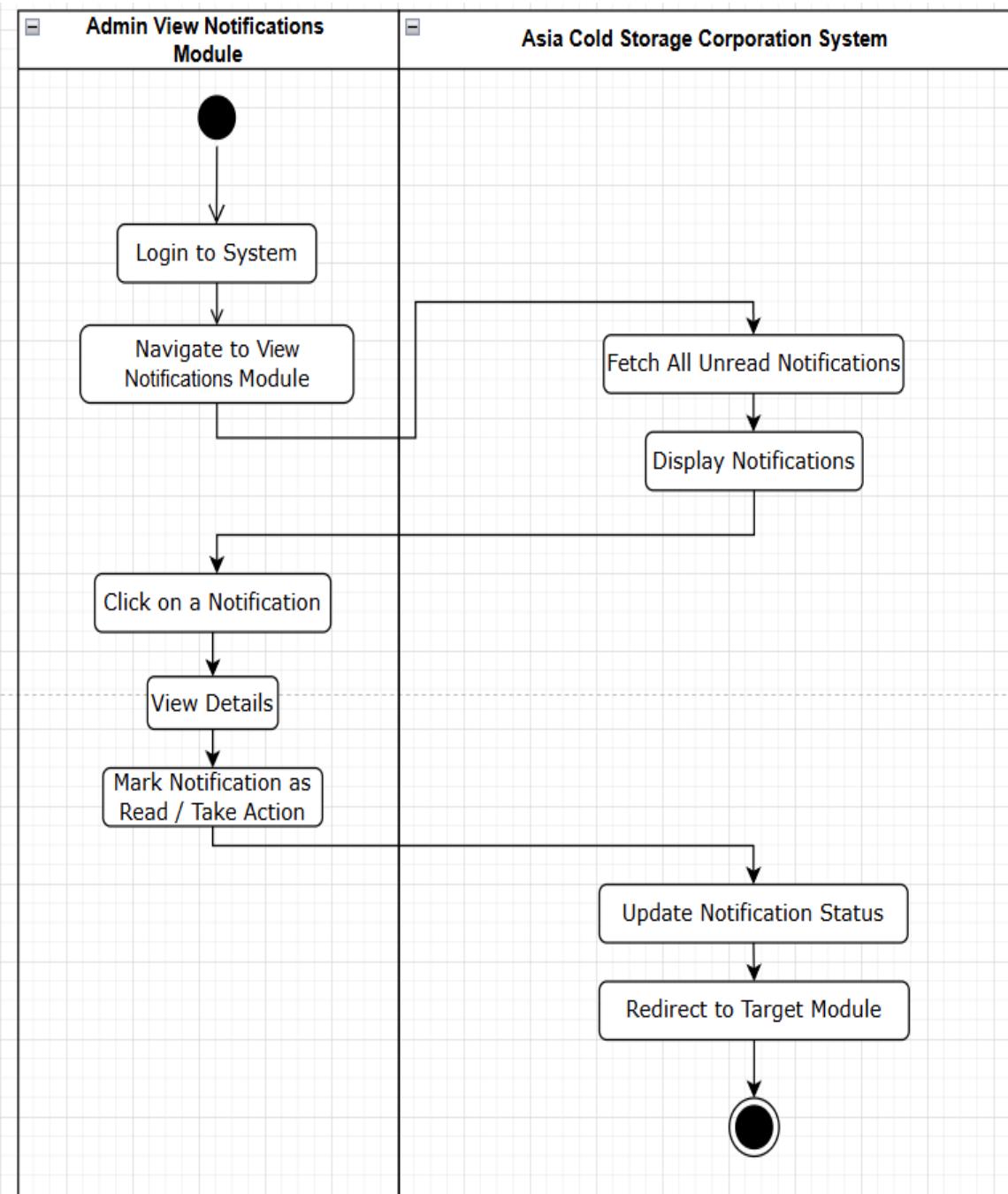


Figure 4.35: Activity Diagram (Notifications Process for Admin)

This process explains how Admins stay updated with system alerts and reminders. Whether it's a new task, pending approval, or overdue maintenance, the system notifies them instantly. Admins can view all notifications in one panel and take action from there. It helps them manage tasks more efficiently.

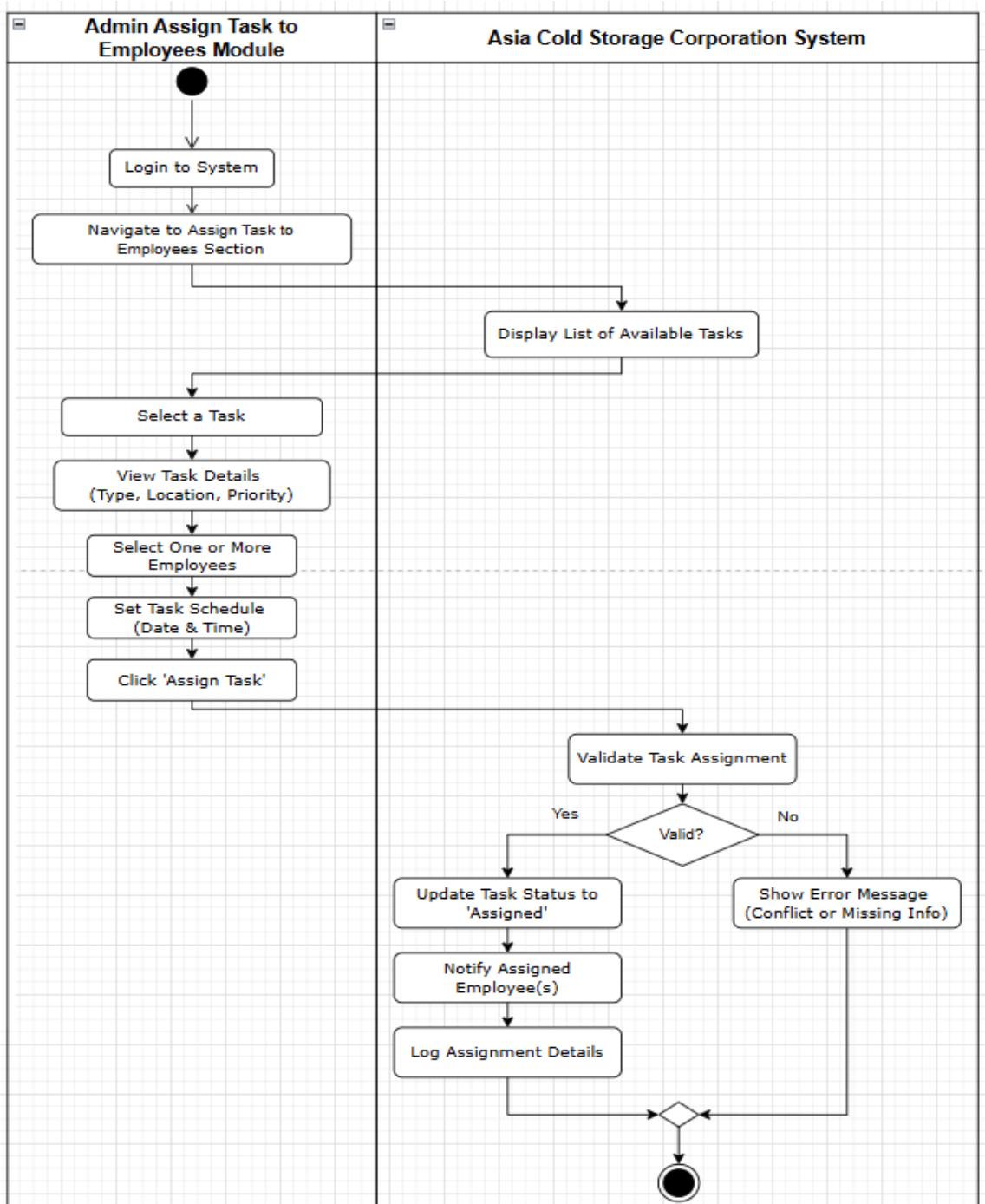


Figure 4.36: Activity Diagram (Assign Task to Employees Process for Admin)

This diagram shows how the Admin assigns specific tasks to employees. They choose the task type, pick one or more available team members, and confirm the assignment. The system logs the task and notifies the assigned employees immediately. This ensures everyone knows their responsibilities and nothing gets missed.

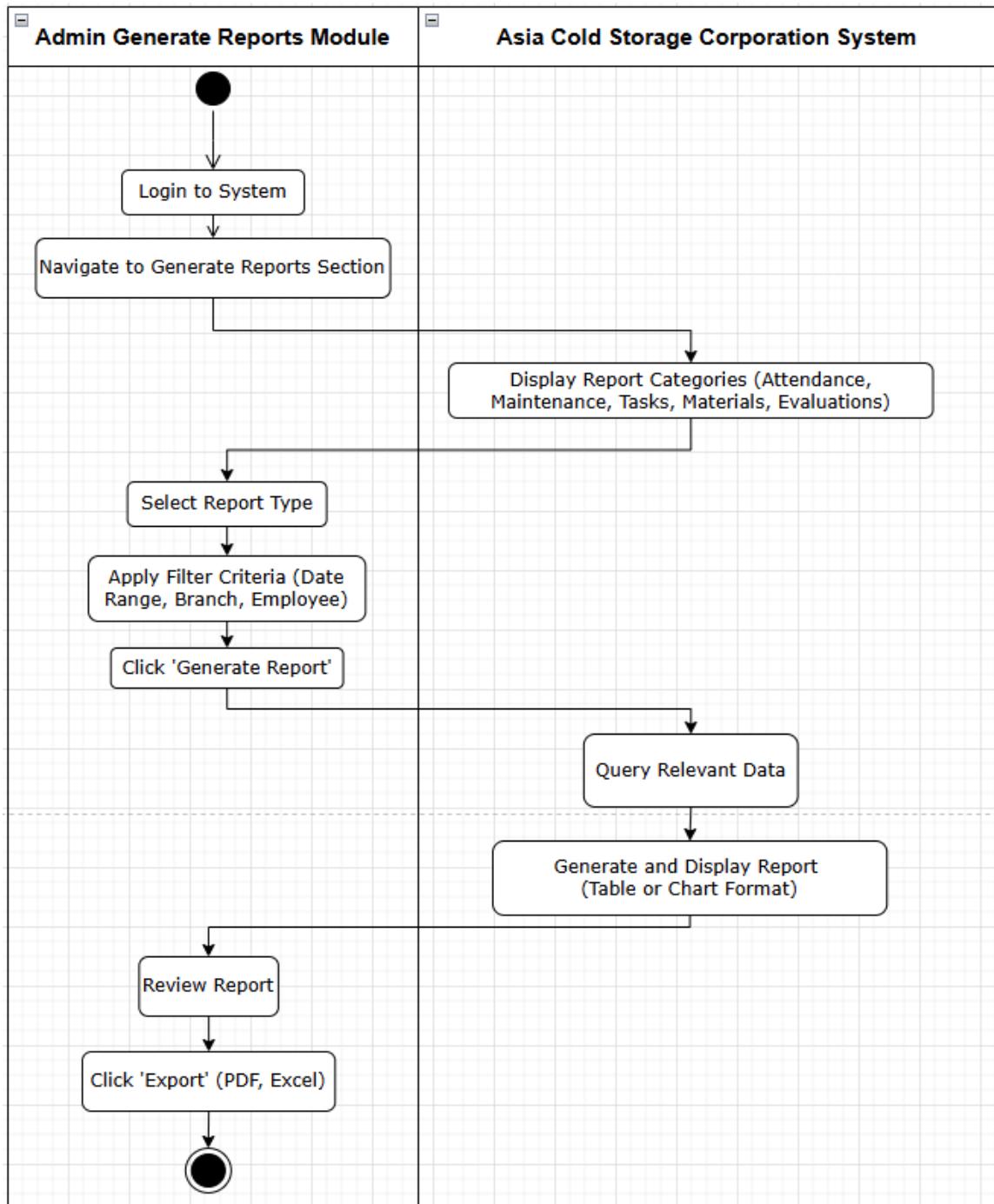


Figure 4.37: Activity Diagram (Generate Reports Process for Admin)

This process allows the Admin to create detailed reports about tasks, performance, or system usage. They can choose filters like branch, date range, or task category to customize the report. The system then generates a visual or downloadable summary. These reports help in evaluating team output and improving operations.

User/Employee

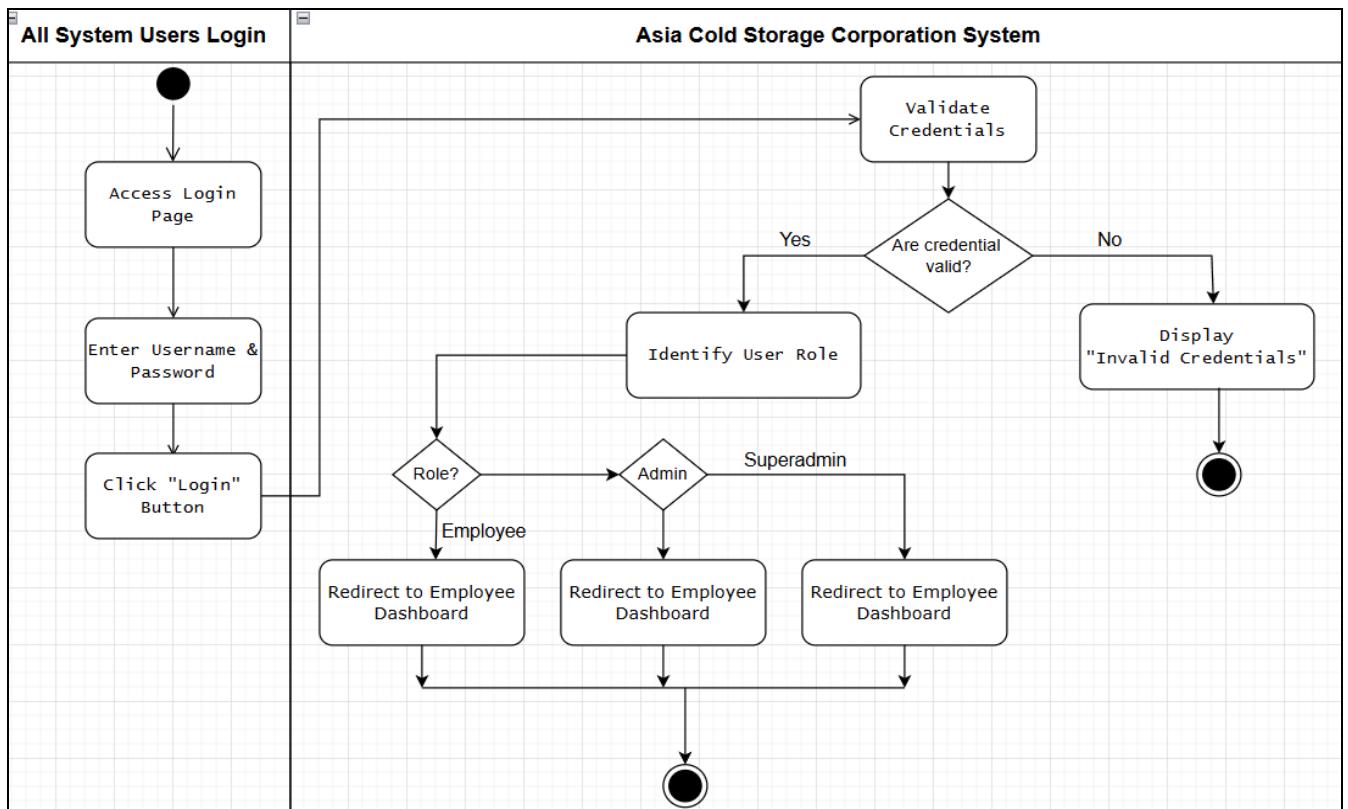


Figure 4.38: Activity Diagram (Login Process for User)

This diagram shows how employees log into the system. They enter their username and password, which the system checks for accuracy. If correct, they're taken to their user dashboard. If not, they see an error and are asked to try again.

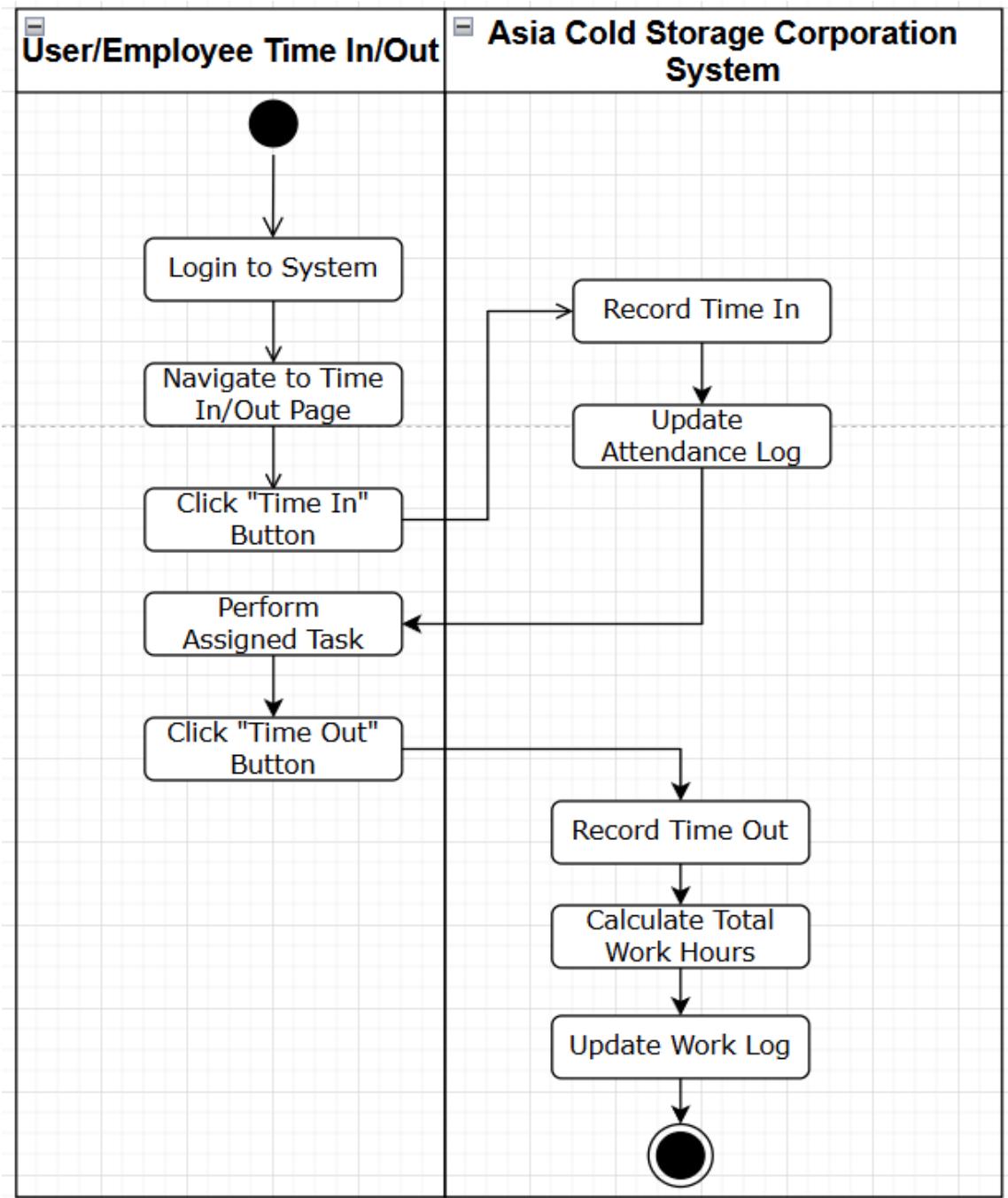


Figure 4.39: Activity Diagram (Time In/Out Process for User)

This activity lets employees record their working hours. They simply click to time in at the start and time out at the end of their shift. The system saves the timestamp for attendance tracking. A confirmation message appears once it's logged.

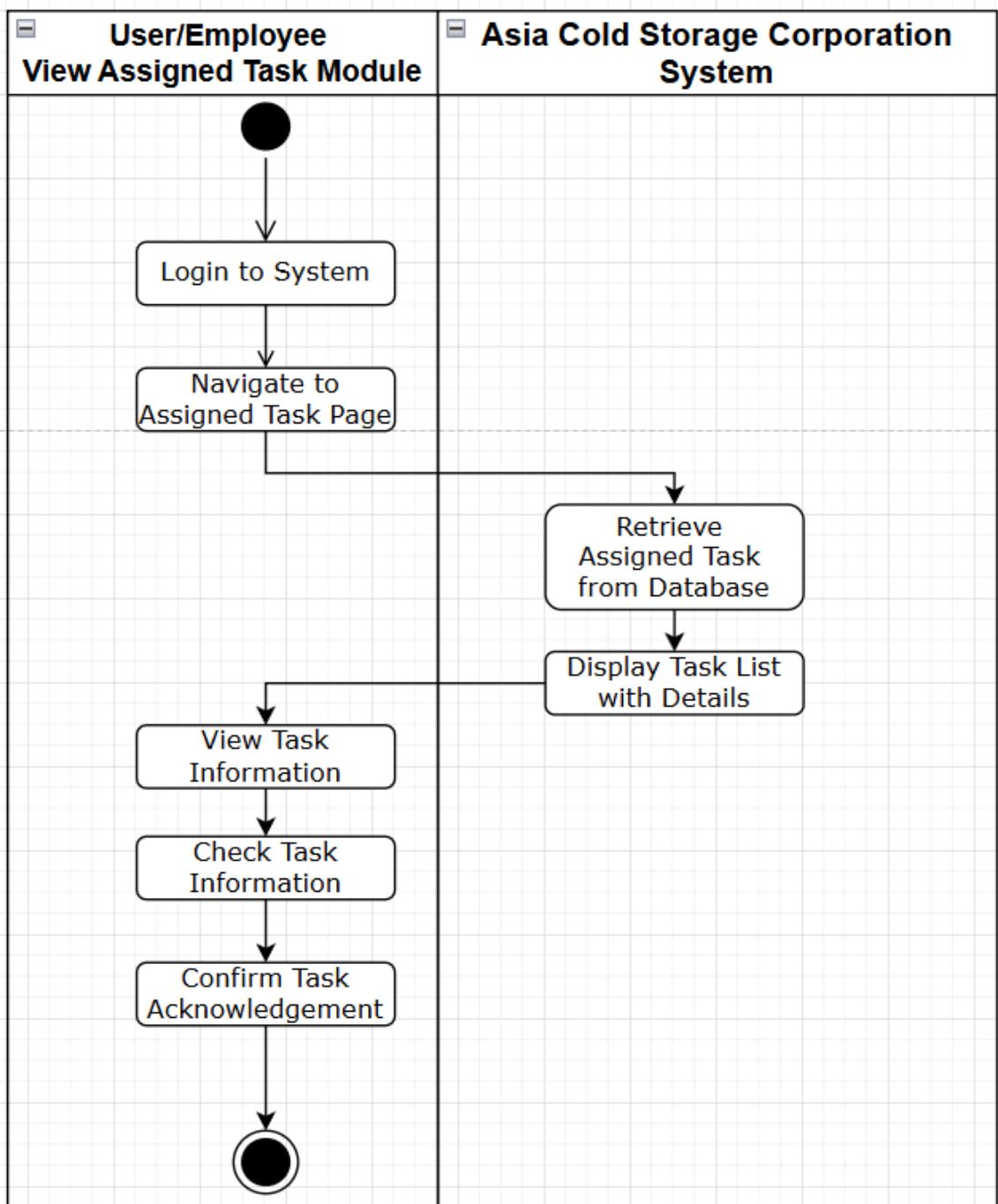


Figure 4.40: Activity Diagram (View Assigned Task Process for User)

Here, the user checks what tasks have been assigned to them for the day. The system displays details like location, task type, and deadline. This helps the employee know exactly what to do and where to go. It ensures everyone stays organized and on schedule.

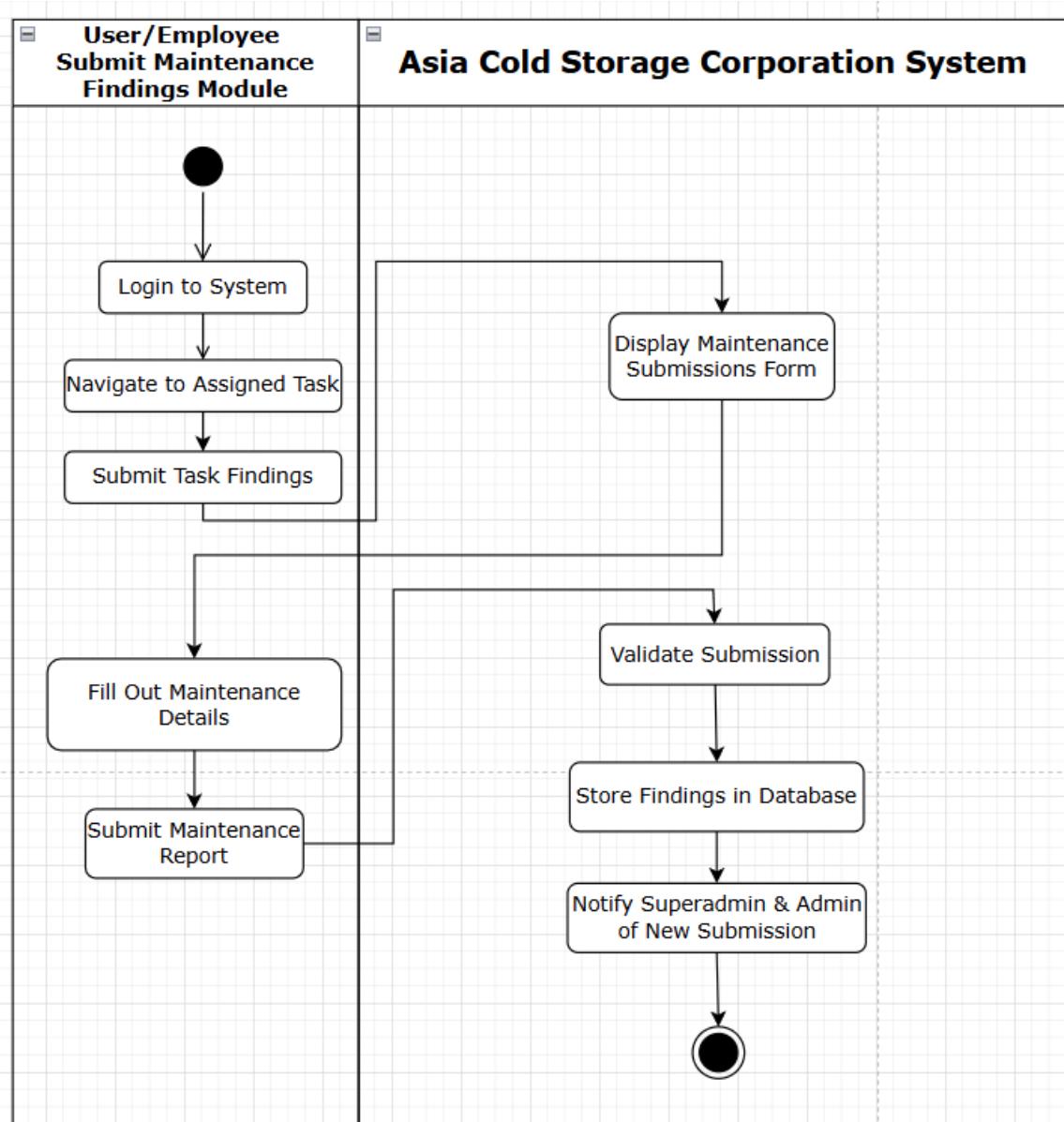


Figure 4.41: Activity Diagram (Submit Maintenance Findings Process for User)

After completing a task, the employee fills out a report with their observations or results. They input findings, status, and any necessary comments. The system saves this info for Admin and SuperAdmin review. This keeps everyone informed about completed work.

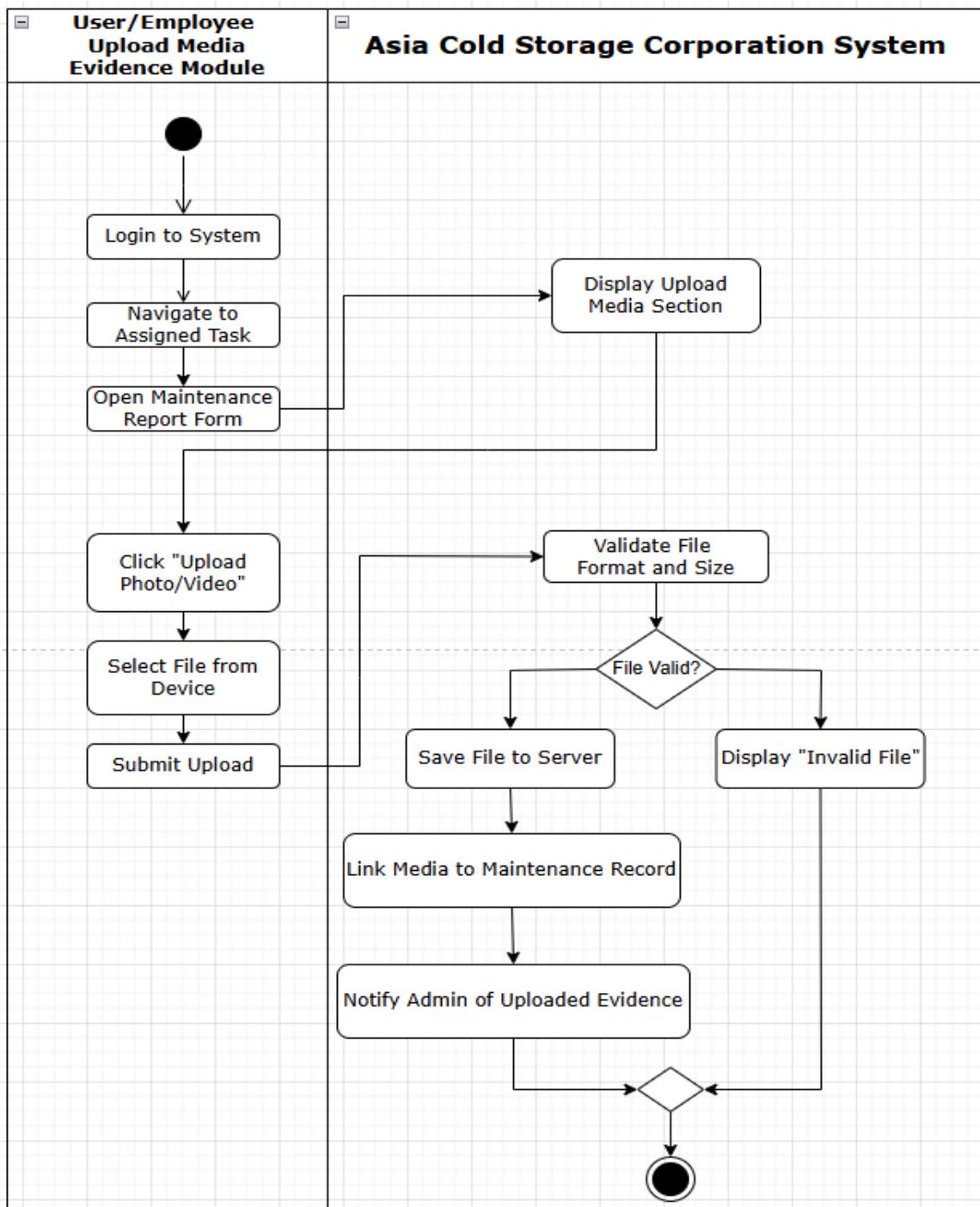


Figure 4.42: Activity Diagram (Upload Media Evidence Process for User)

This process allows employees to attach photos or videos of their completed work. They upload files directly through the system, linking them to a specific task. This helps validate the work done and improves transparency. The uploaded media becomes part of the task record.

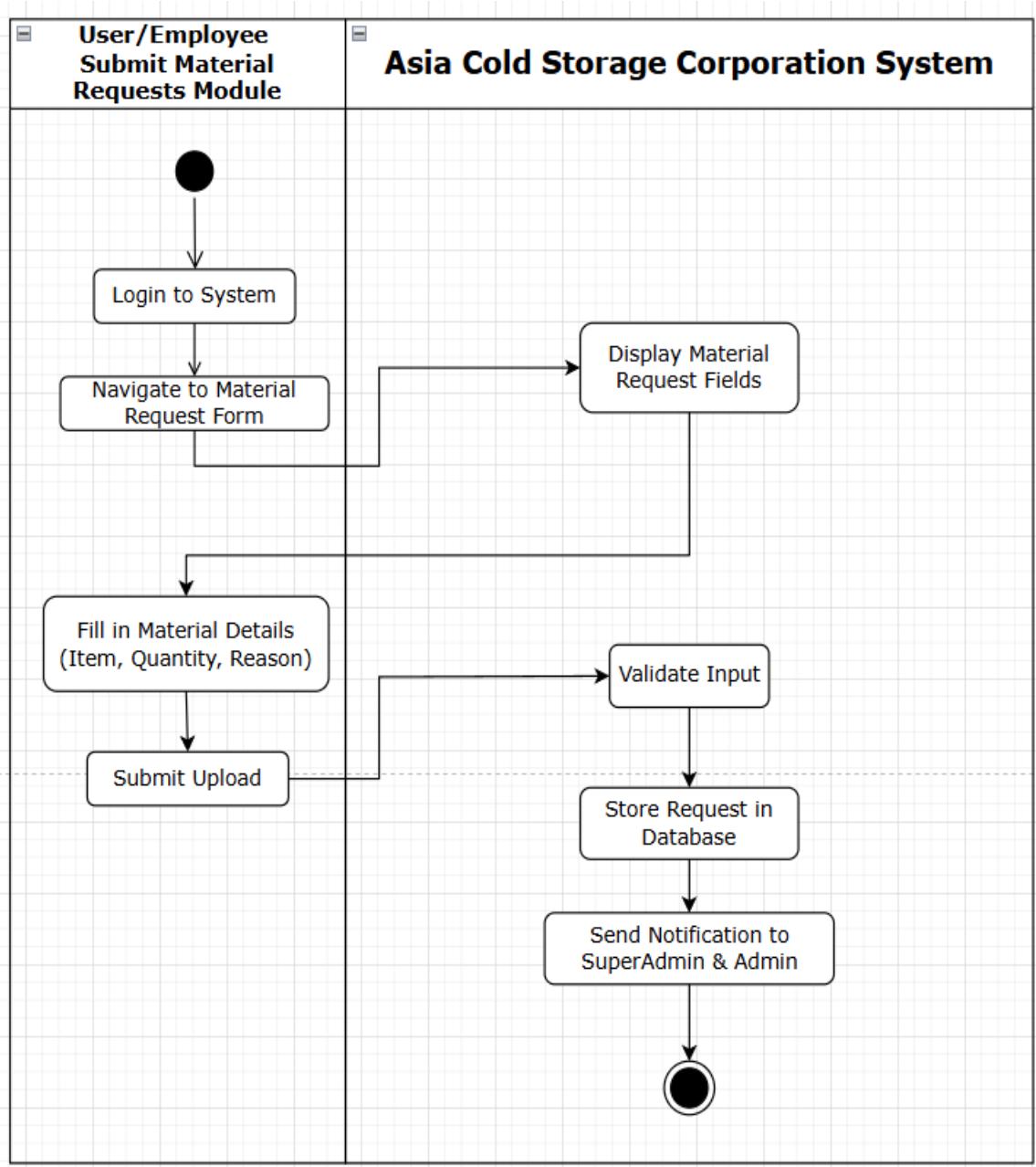


Figure 4.43: Activity Diagram (Submit Material Requests Process for User)

This diagram shows how employees submit material requests through the system. After logging in, they access the material request form and fill out details like the item, quantity, and the reason it's needed. Once they hit submit, the system checks if everything is correctly filled out and stores the request in the database. It then sends a notification to both the SuperAdmin and Admin so the request can be reviewed and acted on.

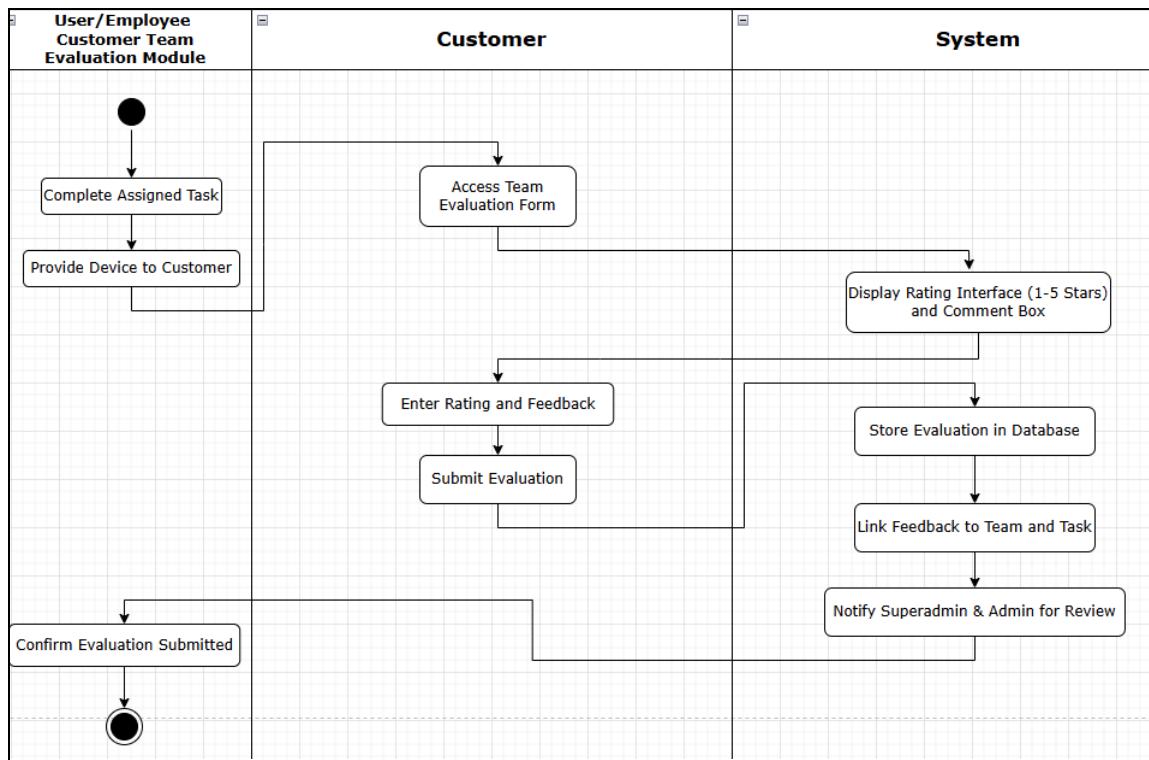


Figure 4.44: Activity Diagram (Submit Material Requests Process for User)

After a job is completed, the employee lets the client use their device to rate the service. The customer gives feedback based on the team's performance. That feedback is saved and sent to Admins and SuperAdmins. It's a simple way to gather valuable insights and boost accountability.

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APPENDICES

APPENDIX A. ASIA COLD STORAGE CORPORATION BUSINESS PERMITS

	Republic of the Philippines LAS PIÑAS CITY																					
Business Permits & Licensing Office																						
BUSINESS LICENSE AND MAYOR'S PERMIT																						
2005092050 ACCOUNT NO.	January 31, 2025																					
ASIA COLD STORAGE CORP																						
TAXPAYER / CORPORATE NAME																						
ASIA COLD STORAGE CORP																						
BUSINESS TRADE NAME																						
108 Warehouse 18, Marcos Alvarez Ave., Talon 1, Las Piñas City LOCATION OF BUSINESS ESTABLISHMENT																						
07/09/2009 DATE ESTABLISHED	09/14/2005 DTI / SEC / Coop REG. NO.	NO. OF DEL. VEHICLE / TRUCK: 2/3 4 6 10 & Up AREA (SQM) - - - - 1,671.62 NO. OF EMPLOYEE 5																				
																						
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; text-align: center; padding-bottom: 5px;"> 2025 1st Qtr on or before January 20 </td> <td style="width: 25%; text-align: center; padding-bottom: 5px;"> 2025 2nd Qtr on or before April 20 </td> <td style="width: 25%; text-align: center; padding-bottom: 5px;"> 2025 3rd Qtr on or before July 20 </td> <td style="width: 25%; text-align: center; padding-bottom: 5px;"> VALID UNTIL DEC 31 2025 4th Qtr on or before October 20 </td> </tr> </table>			2025 1st Qtr on or before January 20	2025 2nd Qtr on or before April 20	2025 3rd Qtr on or before July 20	VALID UNTIL DEC 31 2025 4th Qtr on or before October 20																
2025 1st Qtr on or before January 20	2025 2nd Qtr on or before April 20	2025 3rd Qtr on or before July 20	VALID UNTIL DEC 31 2025 4th Qtr on or before October 20																			
<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center; padding-bottom: 5px;"> NATURE OF BUSINESS </td> <td style="width: 33%; text-align: center; padding-bottom: 5px;"> CAPITAL </td> <td style="width: 33%; text-align: center; padding-bottom: 5px;"> GROSS RECEIPTS </td> <td style="width: 33%; text-align: center; padding-bottom: 5px;"> STATUS </td> </tr> <tr> <td>SERVICES</td> <td>100,000.00</td> <td>4,232,505.26</td> <td>R</td> </tr> <tr> <td>MANUFACTURER</td> <td>1,000,000.00</td> <td>200,000.00</td> <td>R</td> </tr> <tr> <td>DISTRIBUTOR</td> <td>500,000.00</td> <td>1,100,000.00</td> <td>R</td> </tr> <tr> <td>IMPORTER</td> <td>50,000.00</td> <td>200,000.00</td> <td>R</td> </tr> </table>			NATURE OF BUSINESS	CAPITAL	GROSS RECEIPTS	STATUS	SERVICES	100,000.00	4,232,505.26	R	MANUFACTURER	1,000,000.00	200,000.00	R	DISTRIBUTOR	500,000.00	1,100,000.00	R	IMPORTER	50,000.00	200,000.00	R
NATURE OF BUSINESS	CAPITAL	GROSS RECEIPTS	STATUS																			
SERVICES	100,000.00	4,232,505.26	R																			
MANUFACTURER	1,000,000.00	200,000.00	R																			
DISTRIBUTOR	500,000.00	1,100,000.00	R																			
IMPORTER	50,000.00	200,000.00	R																			
<i>***** NOTHING FOLLOWS *****</i>																						
Given this 31st day of January 2025 at Las Piñas City																						
 JESUS WILFREDO D. GAERLAN																						
CHIEF, BPLO																						
 HON. IMELDA T. AGUILAR																						
CTV MAYOR																						



Republic of the Philippines
Department of the Interior and Local Government
BUREAU OF FIRE PROTECTION
NATIONAL CAPITAL REGION
FIRE DISTRICT III
Las Piñas City Fire Station
Las Piñas Central Fire Station, City Hall Compound, Pampanga Times, Las Piñas City
8478-2161/laspinascityfirestation@gmail.com



FSIC NO. RelPC-005652

06-01-2023

Date

FIRE SAFETY INSPECTION CERTIFICATE

- FOR CERTIFICATE OF OCCUPANCY
 FOR BUSINESS PERMIT (NEW/RENEWAL)
 OTHERS

TO WHOM IT MAY CONCERN:

By virtue of the provisions of RA 9514 otherwise known as the Fire Code of the Philippines of 2008, the application for FIRE SAFETY INSPECTION CERTIFICATE of **ASIA COLD STORAGE CORP**
(Name of Establishment)
owned and managed by **Asia cold storage corp** with postal address at
(Name of Owner/Representative)
108 Warehouse 18, Marcos Alvarez Ave., Talon I, Las Piñas City
(Address)

is hereby GRANTED after said building structure or facility has been duly inspected with the finding that it has fully complied with the fire safety and protection requirements of the Fire Code of the Philippines of 2008 and its Revised Implementing Rules and Regulations.

This certification is valid for **issuance of FSIC for business permit only**

(Description)

Asia Cold Storage Corp with a total of 1,671.62sqm floor area occupying valid until **05/31/2024**

a 1 storey commercial building.

Violation of Fire Code provisions shall cause this certificate **null and void** after appropriate proceeding and shall hold the owner liable to the penalties provided for by the said Fire Code.

Fire Code Fees:

Amount Paid: **Php 11,373**

O.R. Number: **12507980**

Date: **02/01/2023**

RECOMMEND APPROVAL

Supt. MELCHOR B. BICEDO
CHIEF, Fire Safety Enforcement Section
Signed at: 2023-06-01 13:38:49

APPROVED:

Supt. MELCHOR B. BICEDO
CITY/MUNICIPAL FIRE MARSHAL
Signed at: 2023-06-01 13:38:49

NOTE: "This Certificate does not take the place of any license required by law and is not transferable. Any change in the use of occupancy of the premises shall require a new certificate."

THIS CERTIFICATE SHALL BE POSTED CONSPICUOUSLY

PAALALA: "MAHIGIT NA IPINAGBABAWAL NG PAMUNUAN NG BUREAU OF FIRE PROTECTION SA MGA KAWANI NITO ANG MAGBENTA O MAGREKOMENDA NG ANUMANG BRAND NG FIRE EXTINGUISHER"

Applicant/Owner's COPY

"FIRE SAFETY IS OUR MAIN CONCERN"

BFP-QSF-FSED-005 Rev. 03 (03.03.20)



Office of the City Health Officer
LAS PIÑAS CITY, HEALTH OFFICE

SANITARY PERMIT TO OPERATE
(FOOD)

Account No.:2005092050

ASIA COLD STORAGE CORP

ASIA COLD STORAGE CORP

Issued to

(Registered Name)

SERVICES ** DISTRIBUTOR ** IMPORTER ** MANUFACTURER

(Type of Establishment)

108 Warehouse 18, Marcos Alvarez Ave., Talon I, Las Piñas City

Address

Sanitary Permit No. 2025002834 Date Issued February 01 20 25

Date of Expiration: December 31, 20 25

This permit is not transferable and will be revoked for violation of the Sanitary Rules Laws or Regulation of P.D. 522 & P.D. 856 and Pertinent Local Ordinance.

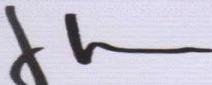
Recommending Approval:

Remarks:VALID UNTIL MAR. 01,2025
HC5




ELEAZER Z. NATIVIDAD, MD
CHIEF, SANITATION DIVISION

Approved:



JULIANA R. GONZALEZ, MD
OIC - CITY HEALTH OFFICE



Republic of the Philippines

Department of the Interior and Local Government

BUREAU OF FIRE PROTECTION

NATIONAL CAPITAL REGION

FIRE DISTRICT III

Las Piñas City Fire Station

Las Piñas Central Fire Station Bureau of Fire Protection, City Hall Compound, Pamplona Tres, Las Piñas City

8478-2161/laspinascityfirestation@gmail.com



FSIC NO. R16

96981664

16-Oct-24

DATE

FIRE SAFETY INSPECTION CERTIFICATE

FOR CERTIFICATE OF OCCUPANCY

X FOR BUSINESS PERMIT (NEW/RENEWAL)

OTHERS

TO WHOM IT MAY CONCERN:

By virtue of the provisions of RA 9514 otherwise known as the Fire Code of the Philippines of 2008, the application for **FIRE SAFETY INSPECTION CERTIFICATE** of **ASIA COLD STORAGE CORP**

(Name of Establishment)

owned and managed by **ASIA COLD STORAGE CORP** with postal address at

(Name of Owner/Representative)

108 Warehouse 18, Marcos Alvarez Ave., Talon I, Las Piñas City

(Address)

is hereby **GRANTED** after said building structure or facility has been duly inspected with the finding that it has fully complied with the fire safety and protection requirements of the Fire Code of the Philippines of 2008 and its Revised Implementing Rules and Regulations.

issuance of business permit only

This certification is valid for

(Description)

ASIA COLD STORAGE CORP with 1671.62sqm floor area occupying in
a 1 storey commercial building

valid until

16-Oct-25

Violation of Fire Code provisions shall cause this certificate null and void after appropriate proceeding and shall hold the owner liable to the penalties provided for by the said Fire Code.

Fire Code Fees:

Amount Paid:

Php 11,373.00

O.R. Number:

12692496J

Date:

1/24/2024



2005092050

RECOMMEND APPROVAL:

SINSPI JOENA A CUARESMA

CHIEF, Fire Safety Enforcement Section
APPROVED:

SUPT JOSEPHUS F ALBURO

CITY/MUNICIPAL FIRE MARSHAL

NOTE: "This Certificate does not take the place of any license required by law and is not transferable. Any change in the use of occupancy of the premises shall require a new certificate."

THIS CERTIFICATE SHALL BE POSTED conspicuously

**PAALALA: "MAHIGPIT NA IPINAGBABAWAL NG PAMUNUAN NG BUREAU OF FIRE PROTECTION SA MGA KAWANI NITO
ANG MAGBENTA O MAGREKOMENDA NG ANUMANG BRAND NG FIRE EXTINGUISHER"**

Applicant/Owner's COPY

"FIRE SAFETY IS OUR MAIN CONCERN"

BFP-QSF-FSED-005 Rev. 03 (03.03.20)



REPUBLIC OF THE PHILIPPINES
SECURITIES AND EXCHANGE COMMISSION
Ground Floor, Secretariat Building, PICC
City of Pasay, Metro Manila

COMPANY REG. NO. CS200512217

CERTIFICATE OF APPROVAL OF INCREASE OF CAPITAL STOCK

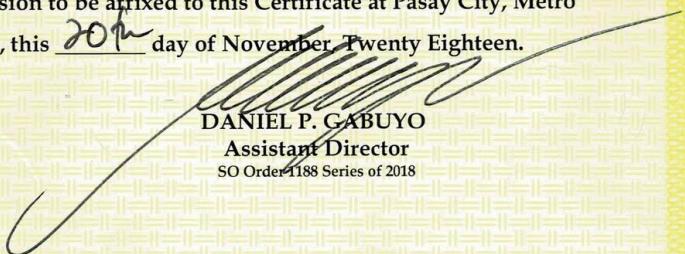
KNOW ALL PERSONS BY THESE PRESENTS:

This is to certify that the increase of capital stock of the

ASIA COLD STORAGE CORP.

from P1,000,000.00 divided into 10,000 shares of the par value of P100.00 each, to P12,000,000.00 divided into 120,000 shares of the par value of P100.00 each, approved by majority of the Board of Directors on September 18, 2018 and by the vote of the stockholders owning or representing at least two-thirds of the outstanding capital stock at a meeting held on June 8, 2018 certified to by the Chairman and the Secretary of the stockholders meeting and a majority of the Board of Directors of the corporation, was approved by the Commission on the date indicated hereunder in accordance with the provision of Section 38 of the Corporation Code of the Philippines (Batas Pambansa Blg. 68), approved on May 1, 1980. A copy of the Certificate of Increase of Capital Stock filed with the Commission is attached hereto.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of this Commission to be affixed to this Certificate at Pasay City, Metro Manila, Philippines, this 2018 day of November, Twenty Eighteen.


DANIEL P. CABUYO
Assistant Director
SO Order 4188 Series of 2018

BA/lea

APPENDIX B. TRANSCRIPT OF THE FIRST INTERVIEW (MARCH 14, 2025)

Proponent/Mr. Alemania: Hello po, Ma'am. Pa-introduce lang po muna kayo. Pangalan po ninyo at position niyo dito sa Asia Cold Storage?

Client/Ms. Yi Fei: Ako nga pala si Yi Fei. Ako yung General Manager ng Asia Cold Storage Corporation.

Proponent/Mr. Alemania: Ilan po lahat ng employado niyo dito?

Client/Ms. Yi Fei: Sa ngayon, nasa 52 kami dito. Meron din sa Cebu, tatlo doon, tapos apat sa Davao. Pero karamihan talaga dito naka-base.

Proponent/Mr. Alemania: Kapag may kailangan po sa ibang branch, nagpapadala po kayo ng tao mula dito?

Client/Ms. Yi Fei: Oo, oo. Kadalasan ganun. Kung may malaking project, nagpapadala kami ng support team from Las Piñas.

Proponent/Mr. Alemania: Kamusta naman po yung sistema niyo ngayon sa scheduling? Manual pa rin po ba?

Client/Ms. Yi Fei: Oo, mano-mano pa rin talaga. Minsan text lang, minsan tawag, o kaya verbal sa office.

Proponent/Mr. Alemania: Eh 'yung record po ng maintenance? May formal log po kayo?

Client/Ms. Yi Fei: Meron pero kalat-kalat. Minsan nakasulat lang sa papel, minsan sa Excel. Kaya ang hirap din i-track lalo na kung matagal na.

Proponent/Alemania: Paano niyo po kinakausap yung team kapag may kailangan kayong ipagawa?

Client/Ms. Yi Fei: Usually sinasabi ko lang diretso or tinatawagan ko sila. Walang standard system talaga.

Proponent/Mr. Alemania: Yung sa mga material requests po, paano po ginagawa ngayon?

Client/Ms. Yi Fei: Sa ngayon, verbal lang din. Kung kailangan ng parts, sasabihin lang ni team leader, then bahala na si admin bumili.

Proponent/Mr. Alemania: Sa side naman po ng customer feedback, may proseso po ba kayong sinusunod?

Client/Ms. Yi Fei: Wala pa eh. Kung may reklamo o comment, sinasabi lang nila. Pero hindi talaga documented o formal.

Proponent/Mr. Alemania: Ahh, gets po. Salamat po sa time, Ms. Yi Fei.

Client/Ms. Yi Fei: Okay, Good luck sa inyo.

TRANSCRIPT OF THE FIRST INTERVIEW (APRIL 27, 2025)

Proponent/Mr. Boyagon: Magandang araw ult, Ma'am Yi Fei. Bale po, gusto lang po sana naming i-share yung system na balak naming gawin para sa company niyo.

Client/Ms. Yi Fei: Sige, ano yan?

Proponent/Mr. Boyagon: Gagawa po kami ng web-based system. Doon po, makikita ng mga tao niyo yung daily tasks nila, makaka-time in/out din sila, tapos makaka-log sila ng maintenance activities.

Client/Ms. Yi Fei: Okay. Magagamit namin yan.

Proponent/Mr. Boyagon: May kasama rin po yang material request feature. Pwede mag-request si team leader through the system. Then kayo po as admin or superadmin, kayo mag-approve.

Client/Ms. Yi Fei: Puwede. May notification ba yan?

Proponent/Mr. Boyagon: Opo, mag no- notif po kapag may bagong task, deadlines, approvals, pati reminders.

Client/Ms. Yi Fei: Okay. Paano yung sa customer side?

Proponent/Mr. Boyagon: Meron pong feature na evaluation. After ng trabaho, bibigyan si client ng option na i-rate yung team gamit ‘yung device ni team leader.

Client/Ms. Yi Fei: Okay din yan, para may idea kami kung satisfied ba si customer. Minsan kasi tahimik lang yung customer kahit hindi satisfied.

Proponent/Mr. Boyagon: Meron din po kaming dashboard para sa reports. Kita po doon ‘yung gastos, task history, performance ng team.

Client/Ms. Yi Fei: Diyan namin makikita kung sino yung consistent o kailangan pa ng training.

Proponent/Mr. Boyagon: Opo. Target talaga ng system is mapadali ang process at ma-monitor lahat ng branches.

Client/Ms. Yi Fei: Magagamit talaga namin yan.

Proponent/Mr. Boyagon: Salamat po, Ma'am Yi Fei.

Client/Ms. Yi Fei: Okay. Good luck sainyo.

APPENDIX C. USER INTERFACE

SUPER ADMIN DASHBOARD

System Login

Username

Password

Login As

Login

System Management Panel



Create User



Edit User



Delete User



Assign Roles



Set Maintenance Cycle



Set Alert Thresholds



Review Employee Performance



Task Completion Logs

User Registration

Full Name

e.g. Juan Dela Cruz

Username

Enter username

Password

.....

Confirm Password

.....

Role

-- Select Role --

Department (optional)

e.g. Maintenance, HR

Status

Active Inactive

Create User

Reset

Modify User Details

Full Name

John Doe

Username

jdoe

Change Password

Leave blank to keep current

Role

Admin



Status

Active Inactive

Save Changes

Remove a User

Select User

Select a user



Warning: This action cannot be undone.

Delete User

User

John Doe

Assign Role

Admin

Permissions

Log Maintenance Tasks

Assign Tasks

Generate Reports

View Performance

Assign

Configure Maintenance Intervals

Equipment Name

e.g. Freezer A

Cycle Frequency

Choose interval

Next Scheduled Date

mm/dd/yyyy 

Save Cycle

Configure Alert Settings

Equipment Name

e.g. Freezer B

Temperature Threshold (°C)

e.g. -10

Humidity Threshold (%)

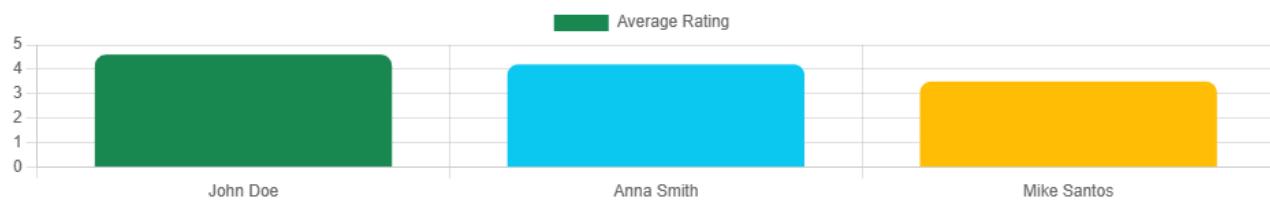
e.g. 85

Trigger Alert If

Select condition

Save Alert

Performance Chart



Employee Ratings & Task History

Employee	Average Rating	Total Tasks	Performance Badge
John Doe	4.6 ★	28	Excellent
Anna Smith	4.2 ★	23	Very Good
Mike Santos	3.5 ★	20	Needs Improvement

Completed Maintenance Tasks

Date	Employee	Task	Status
2025-05-23	Anna Smith	Repair Cooler A	Completed
2025-05-22	John Doe	Inspect Freezer B	Completed

ADMIN DASHBOARD

Admin Tools



Time In/Out



Pending Approvals



View Attendance



Maintenance Reminders



Search Logs



Export Logs



Monitor Maintenance



Customer Evaluations



Notifications



Assign Task



Generate Reports

Log Your Attendance



Time In



Time Out

⌚ Requests Awaiting Your Action

Date	Request Type	Requested By	Details	Action
2025-05-24	Material	John Doe	Cooler A – 3 m copper pipe	 
2025-05-23	Schedule Change	Anna Smith	Reschedule inspection to 05-26	 

Daily Attendance Log

Date	Employee	Time In	Time Out	Status
2025-05-24	Anna Smith	08:01 AM	05:01 PM	Present
2025-05-24	Mike Santos	–	–	Absent

Upcoming Maintenance Tasks

Equipment	Location	Due Date	Status
Cooler A	Zone 2	2025-05-26	Due Soon
Freezer B	Zone 1	2025-05-30	Scheduled

Find Maintenance or Attendance Logs

Search Results

Date	Name	Type	Details
2025-05-23	Anna Smith	Attendance	Time In: 8:02 AM, Time Out: 5:01 PM
2025-05-22	Mike Santos	Maintenance	Repaired Fan – Cooler A

Download Logs

Select Log Type

Choose...

Date Range

mm/dd/yyyy



mm/dd/yyyy



Export Format

PDF

Export Logs

Maintenance Task Logs

Date	Employee	Equipment	Findings	Media
2025-05-22	John Doe	Cooler B	Fan replacement completed	View
2025-05-21	Anna Smith	Freezer A	Inspection OK	View

Recent Evaluations

Date	Customer	Employee	Rating	Comments
2025-05-23	ABC Corp	John Doe	4.6	Great service and fast response
2025-05-22	XYZ Inc	Anna Smith	4.2	Prompt and professional

Recent System Alerts

Freezer A due for maintenance tomorrow.

Task approval pending for John Doe.

Reminder: Review evaluations this week.

Assign To

John Doe

Task Type

Inspection

Description

Details about the task...

Due Date

mm/dd/yyyy



Assign Task

Create a Report

Report Type

Attendance



Date Range

mm/dd/yyyy



mm/dd/yyyy



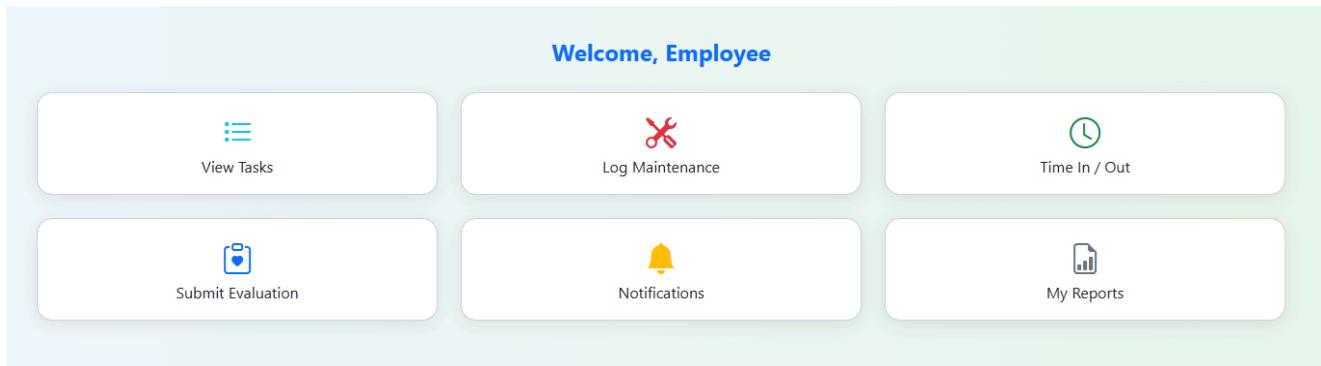
Export Format

PDF



Generate Report

USER DASHBOARD



Date	Task	Description	Status
2025-05-24	Inspect Freezer A	Check for abnormal noise and defrost buildup	Pending
2025-05-23	Repair Cooler B	Replace broken fan	Completed

Task Type

Inspection

Equipment

e.g., Freezer A

Findings/Actions Taken

Upload Photo/Video

Choose File No file chosen

Submit Log

Log Time

Time In

Time Out

Employee Being Evaluated

John Doe



Rating (1 to 5)

Comments

Write feedback...

Submit Evaluation

🌟 You have a new task assigned: Inspect Freezer A

⏰ Don't forget to Time In by 08:00 AM

🔔 System reminder: Maintenance due in 2 days

Report Type

Attendance

Date Range

mm/dd/yyyy



mm/dd/yyyy



Download Report