



Republic of the Philippines  
Polytechnic University of the Philippines  
**College of Computer and Information Sciences**  
Sta. Mesa, Manila



**Technical Documentation of a Generic Attendance Monitoring and Equipment  
Management for Construction Company**

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A System Study Presented to the Faculty of the  
College of Computer and Information Sciences  
Polytechnic University of the Philippines

Submitted by:

Anapi, Christopher  
Cruz, Carlson  
Pascual, Jan Marc  
Reves, Rosary Lee  
Varde, Kim Denzell

BSIT 4-3

## **Chapter 1: Abstract/Overview**

### **1.1 Project Definition / INTRODUCTION – Problem/Opportunity Statement**

A construction company delivers construction projects and services that meet the local and international standard. They keep their track on their employees performing a specific job on a site they were assigned. Most company currently uses manual forms as a way of transaction. They maintain their inventory on logbook for tracking and monitoring purposes.

Their reports, whether daily, weekly, monthly, or annually are manually encoded with a use of a spread sheet or word processing software and prints it for presentation purposes.

The proposed project will addressed the following problems:

- Inconsistent monitoring and tracking of asset and attendance.
- Slow processing of data specifically in time keeping.
- Data redundancy due to duplication of copies.
- Time-consuming on searching for specific records.
- Unmanaged details/information of workers.
- Worker and task mismatch.

## **1.2 BUSINESS CASE**

### **1.2.1 Project Goal**

- The project will lessen the inaccuracy of distributing the assets.
- The project will improve the reliability of records and completeness of reports.
- The project will resolve the inconsistency in time and attendance monitoring.
- The project will minimize the time in searching for past records.

### **1.2.2 Project Objective**

- To provide a module that will appropriately assign workers to their fitted job.
- To provide a module that will accurately assign the needed equipment in a project.
- To provide a module in system that will allow users to generate reports.
- To provide reports that will summarize the business services and transactions.
- To provide a tool from a system that will store data into database.
- To provide a web based system that could be easily accessed by any devices using an internet browser.
- To provide a system that can easily query past records.
- To provide a system that allows the user to monitor worker's time and attendance.
- To provide a system that gives actual time-in/time-out of the workers.

### **1.2.3 Assumptions**

The assumptions for this project are as follows:

- Resource requirements will be available when needed.
- All necessary documents and information will be provided by the client.
- Team members will maximize the time given in making the project.
- Team members will contribute and finished their tasks (with quality) on time and abide by the schedule of completion.
- The project will help in the improvement of business process of the company.
- The project will be of solution to the company's problems.
- Project problems and risks will be handle and taken into action once occur.

#### **1.2.4 Constraints**

The major constraints in developing the system are:

- Time - Allotted time provided in the semester is short and other school requirements and responsibilities must be met on the course of the project. The team must set start and end date for a specific task and produce of quality results.
- Budget - Each of the team members has a limited budget to spend since the allowances are only for food and transportation for school days, other miscellaneous fees such as printing documents and transportation fare for meeting clients are not included in the budget.
- Scope - The Scope of the system is limited only to Generic Attendance Monitoring and Equipment Management for Construction Company.
- Limited knowledge.

#### **1.2.5 Methods Used in the Study**

- We gather information by interviewing and by giving questionnaires to our client and its employees.
- We used Agile Methodology Development Strategies, so we can make changes in case the client wants to improve or add more features.
- We also have prepared a Process Flow Diagram (PFD) and Fishbone Diagram to see clearly their problems that we can work on.

## **Chapter 2: Functional Specification Report**

### **2.1. Data Requirements**

#### **2.1.1 Forms**

##### **2.1.1.1 List and Description of Forms**

<b>Name of Form</b>	<b>Description</b>
Attendance Form (Figure 2.1)	Attendance Sheet of workers this also include the material and the equipment brought in the site
Inspection request (Figure 2.2)	Final inspection Request After Hand Over Report
Project Manager Instruction(PMI) (Figure 2.3)	Instruction about what has to be done in the project
Site Memorandum (Figure 2.4)	Memo about the site with attachment of the key plan.

**Table 2.1 List of Forms**

### 2.1.1.2 Layout of Forms

<b>MJAP CONSTRUCTION</b>								
DAYWORK RECORD								
PROJECT:				Date:				
ADDRESS:								
WORK DESCRIPTION:								
ITEM NO.	DESCRIPTION							
A.	WORKERS	TRADE	AM IN	SIGNATURE	PM OUT	SIGNATURE	OVERTIME	SIGNATURE
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
B. MATERIALS (QTY-stock)								
C. EQUIPMENTS (QTY-stock)								
SUBMITTED BY:			CHECKED BY:			NOTED BY:		
<hr/>			<hr/>			<hr/>		

**Figure 2.1 .1 Attendance Form**

RLB Rider Levett Bucknall	<b>RIDER LEVETT BUCKNALL PHILIPPINES, INC.</b> (formerly Rider Hunt Liacor, Inc.)		
<b>INSPECTION REQUEST</b>			
<b>PLASTERING WORKS</b>			
PROJECT : <u>ICON PLAZA BGC</u>	CONTRACTOR : <u>MAP CONSTRUCTION</u>		
LOCATION : <u>25TH ST. GLOBAL CITY</u>	DATE : <u>JAN 08, 2015</u>		
CLIENT : <u>XCELL PROPERTIES VENUES, INC.</u>	BUILDING ID : <u>25TH FLOOR</u>		
AREA(S) TO BE INSPECTED		ACTION CODE:	
Interior <input type="checkbox"/> Perimeter <input type="checkbox"/>	a) Approved b) Approved Subject to Comments Work May Proceed c) For Reinspection d) Disapproved, Work Cannot Proceed		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
LOCATION: <u>Plastering wall</u> <u>24th floor</u> <u>Unit A &amp; B</u>			
A. APPLICABLE SPECIFICATIONS : SECTION <i>Reviewed by [Signature] dated [Signature] 01/08/15</i>			
B. CONSTRUCTION METHOD :		CONFIRMATION	
EMBEDMENT INSPECTION	Electrical/ Auxiliary pipes & boxes	CONTRACTOR	RLB
	Sanitary Pipes	<i>acc p</i>	<i>15 JAN. 15</i>
BONDING AGENT			
PLASTER PREPARATION	Scratch Coat	<i>MAP</i>	<i>1-15-15</i>
	Plastering Guide		
FINAL APPLIED PLASTER	Plumbness	<i>MAP</i>	<i>1-15-15</i>
	Eveness	<i>MAP</i>	<i>1-15-15</i>
	Squareness	<i>MAP</i>	<i>1-15-15</i>
COMMENTS:			
NOTE : SIGNATURE OVER PRINTED NAME, INDICATE COMPANY & DATE SIGNED			
REQUESTED BY: <i>RIDER CONSTRUCTION</i> <i>FEDERICO SANTOS</i> GENERAL CONTRACTOR	RECEIVED <i>RLB Rider Levett Bucknall</i> 08 JAN 2015	INSPECTED BY: <i>John F.</i> RLB SITE ENGINEER	APPROVED BY: <i>John F.</i> RLB CONSTRUCTION MANAGER
DATE: <i>08 JAN 2015</i> TIME: <i>10 AM</i> BY: <i>G</i>			

**Figure 2.1.2 Inspection Request Form**

RLB Rider Levett Bucknall	RIDER LEVETT BUCKNALL PHILIPPINES, INC. (formerly Rider Hunt Liacor, Inc.)			
PROJECT MANAGER'S INSTRUCTION (PMI)				
PROJECT : ICON PLAZA				
LOCATION : Bonicafio Global City				
This PMI covers instruction by the Project Manager for immediate implementation by the Contractor or shall serve as written confirmation on coordination made with other departments.		PMI No. : ICON-MJAP-2014-009		
		DATE : 26 August 2014		
		PAGE : 7 pages including this Cover(PMI)		
ATTENTION : MJAP Lot 14 Block 3 Kayumanggi Road, Karangalan Village Phase 1, Cainta Rizal	THRU : Ms. Josephine A. Pascual General Manager			
SUBJECT : Masonry Works, Demolition of Beam at 2nd to 5th Podium				
DESCRIPTION :	This Project Manager's Instruction is issued in accordance with and is subject to the terms, conditions and provisions of the Contract. You are hereby instructed as follows:			
<p>Reference : Site Memo RLB.SM.543A.06.2014.0567 dated Aug. 19, 2014</p> <p>Supply and installation of necessary masonry works for 100mm CHB wall with plaster finish.</p> <p>Supply and installation of 100mm x 100mm concrete curb.</p> <p>Demolition of existing beam at 3rd and 4th Podium.</p>				
<p>Submit cost proposal for QS review/evaluation and recommendation to Owner for approval.</p> <p>Submit shop drawing for approval of consultant.</p>				
<p><b>Reason:</b></p> <p>To implement the works based on the approved drawings issued by the Architect (RVA).</p>				
<p><b>Attachments:</b></p> <p>1.) Highlighted key plan and drawings with designer comments.      2.) RFI # 050 dated July 30, 2014.      3.) Site Memo RLB.SM.543A.06.2014.0567 dated Aug. 19, 2014.</p>				
<p>For your compliance.</p> <p><i>[Handwritten signatures and initials over a blue stamp]</i></p> <p><b>RECEIVED</b> AUG 29 2014 <i>[Handwritten signature over stamp]</i></p> <p><b>DATE : 30 AUG 2014</b> <b>TIME : 8:44 AM</b> <b>BY : [Signature]</b></p>				
PREPARED BY:  <i>[Signature]</i> Marcial Martinez Construction Manager	RECOMMENDING APPROVAL:  <i>[Signature]</i> Dennis F. Enriquez Project Manager	RECOMMENDING APPROVAL:  N/A Consultant Date:	APPROVED BY:  <i>[Signature]</i> XEV Owner Date:	RECEIVED BY:  MJAP Contractor Date:

Figure 2.1.3 Project Manager's Instruction Form

RLB Rider Levett Bucknall

**RECEIVING COPY**

**SITE MEMORANDUM**

REF : RLB.SM.543A.06.2013.0567

MEMO TO : MJAP

ATTENTION : Josephine A. Pascual  
General Manager

RE : CHB Laying at 2<sup>nd</sup> to 5<sup>th</sup> Podium  
Icon Plaza Project

Rider Levett Bucknall Philippines, Inc.  
(Formerly Rider Hunt Liacor, Inc.)

Main Office:  
Building 3, Corazon Clemeña Compound  
54 Danny Floro Street, Bagong Ilog, Pasig City, 1600, Philip-  
T: +63 2 687 1075 / 470 0642  
F: +63 2 5704025 E: rlb@ph.rlb.com, bizdev@ph.rlb.co

Cebu Office:  
Suite 602, PDI Condominium, Arch. Bishop Reyes Avenue  
cor. J.Panis Street, Banilad, Cebu City, 6014, Philippines  
T: +63 32 268 0072 E: rlbcebu@ph.rlb.com

Davao Office:  
Suite 1, Ram-Line Resources Bldg. R. Castillo Street,  
Agdao District, Davao City, 8000, Philippines  
T: +63 82 235 0997 E: rldavao@ph.rlb.com

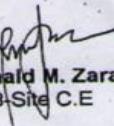
Date: 19 Aug. 2014

COPIED TO: File

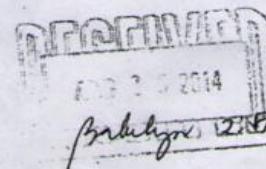
Attached herewith are the approved drawings for the implementation of CHB laying at 2<sup>nd</sup> to 5<sup>th</sup> Podium. In view of this, we hereby instruct MJAP to proceed with the said items. In addition to this the demolition of beam at 3<sup>rd</sup> to 4<sup>th</sup> Podium as well as the installation of Hardiflex board will also be considered to widen the stair opening as indicated in RFI No: RLB-050. Corresponding PMI is on process in favor of MJAP.

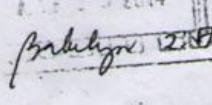
For your appropriate action. Thank you

For and in behalf of  
RIDER LEVETT BUCKNALL, PHIL.

  
Ronald M. Zara  
RLB-Site C.E.

  
Marcial S. Martinez  
RLB-Construction Manager



  
Date: 8/22/14  
R. MENDOZA

Cc: Mr. Restituto Santos - XPMI-Construction Manager  
Mr. Dennis F. Enriquez - RLB-PM/CM Director  
Mr. Patrick Santos - RLB- Project QS ~~19 AUG 2014~~

[www.rlb.com](http://www.rlb.com)

Certified  
ISO 9001:2008

Figure 2.1.4 Site Memorandum Form

## **2.1.2 Reports**

### **2.1.2.1 List and Description of Reports**

Name of Report	Description
Weekly Accomplishment Report (Figure 2.5, 2.5.1 and 2.5.2)	Accomplishment Report in a Week
Monthly Accomplishment Report (Figure 2.6, 2.6.1 and 2.6.2)	Accomplishment Report in a month
Contractor's Daily Report (Figure 2.7 and 2.7.1)	This includes: <ul style="list-style-type: none"><li>• Daily Work Description</li><li>• Event's Visitor to the site and/or important issues</li><li>• Works to be accomplished the following day</li><li>• Review of schedule</li><li>• remarks</li></ul>

**Table 2.2 List of Reports**

### 1.2.2 Layout of Reports



Figure 2.1.5 Weekly Accomplishment Report

Project : Circulo Verde Garden Homes Phase 2			
70 Calle Industria, Bagumbayan, Quezon City			
Subject : Weekly accomplishment			
Date : May 21, 2014			
Period Covered : May 14 - 20, 2014			
Project/Activities	Status	previous	Percentage
			To Date
<b>Phase 2 Block 3A</b>		<b>17.07%</b>	<b>11.33%</b>
<b>Level 1 Masonry Works</b>			
a. 150mm thk. CHB	On-going	25.00%	15.00%
b. 100mm thk. CHB	On-going	25.00%	15.00%
c. Plastering 20mm thk.	On-going	15.00%	10.00%
d. Rubbed concrete	On-going	10.00%	5.00%
e. Concrete Topping	NS	0%	5.00%
<b>Total</b>		<b>15.00%</b>	<b>10.00%</b>
<b>Level 2</b>			
a. 150mm thk. CHB	On-going	35.00%	15.00%
b. 100mm thk. CHB	On-going	40.00%	15.00%
c. Plastering 20mm thk.	On-going	14.00%	20.00%
d. Rubbed concrete	On-going	9.00%	15.00%
e. Concrete Topping	On-going	2%	10.00%
<b>Total</b>		<b>20.00%</b>	<b>15.00%</b>
<b>Level 3</b>			
a. 150mm thk. CHB	On-going	25.00%	10.00%
b. 100mm thk. CHB	On-going	25.00%	10.00%
c. Plastering 20mm thk.	On-going	20.00%	5.00%
d. Rubbed concrete	On-going	6.00%	10.00%
e. Concrete Topping	On-going	5.00%	10.00%
<b>Total</b>		<b>16.20%</b>	<b>9.00%</b>
<b>Phase 2 Block 3B</b>		<b>23.00%</b>	<b>1.33%</b>
<b>Level 1 Masonry Works</b>			
a. 150mm thk. CHB	Completed	0.00%	0.00%
b. 100mm thk. CHB	Completed	0.00%	0.00%
c. Plastering 20mm thk.	Completed	0.00%	0.00%
d. Rubbed Concrete	Completed	0.00%	0.00%
e. Concrete Topping	on-going	50%	20.00%
<b>Total</b>		<b>10.00%</b>	<b>4.00%</b>
<b>Level 2</b>			
a. 150mm thk. CHB	Completed	0.00%	0.00%
b. 100mm thk. CHB	Completed	0.00%	0.00%
c. Plastering 20mm thk.	Completed	0.00%	0.00%
d. Rubbed Concrete	Completed	85.00%	0.00%
e. Concrete Topping	Completed	70.00%	0.00%
<b>Total</b>		<b>31.00%</b>	<b>0.00%</b>

**Figure 2.1.5.1 Weekly Accomplishment Report**

Level 3			
a. 150mm thk. CHB	Completed	0.00%	0.00%
b. 100mm thk. CHB	Completed	0.00%	0.00%
c. Plastering 20mm thk.	Completed	0.00%	0.00%
d. Rubbed Concrete	Completed	80.00%	0.00%
e. Concrete Topping	Completed	40.00%	0.00%
<b>Total</b>		<b>28.00%</b>	<b>0.00%</b>
<b>Total Phase 2 3A &amp; 3B</b>		<b>20.04%</b>	<b>6.33%</b>

Prepared and submitted By:

*[Signature]*  
**JOSEPHINE A PASCUAL**  
General Manager

**Figure 2.1.5.2 Weekly Accomplishment Report**

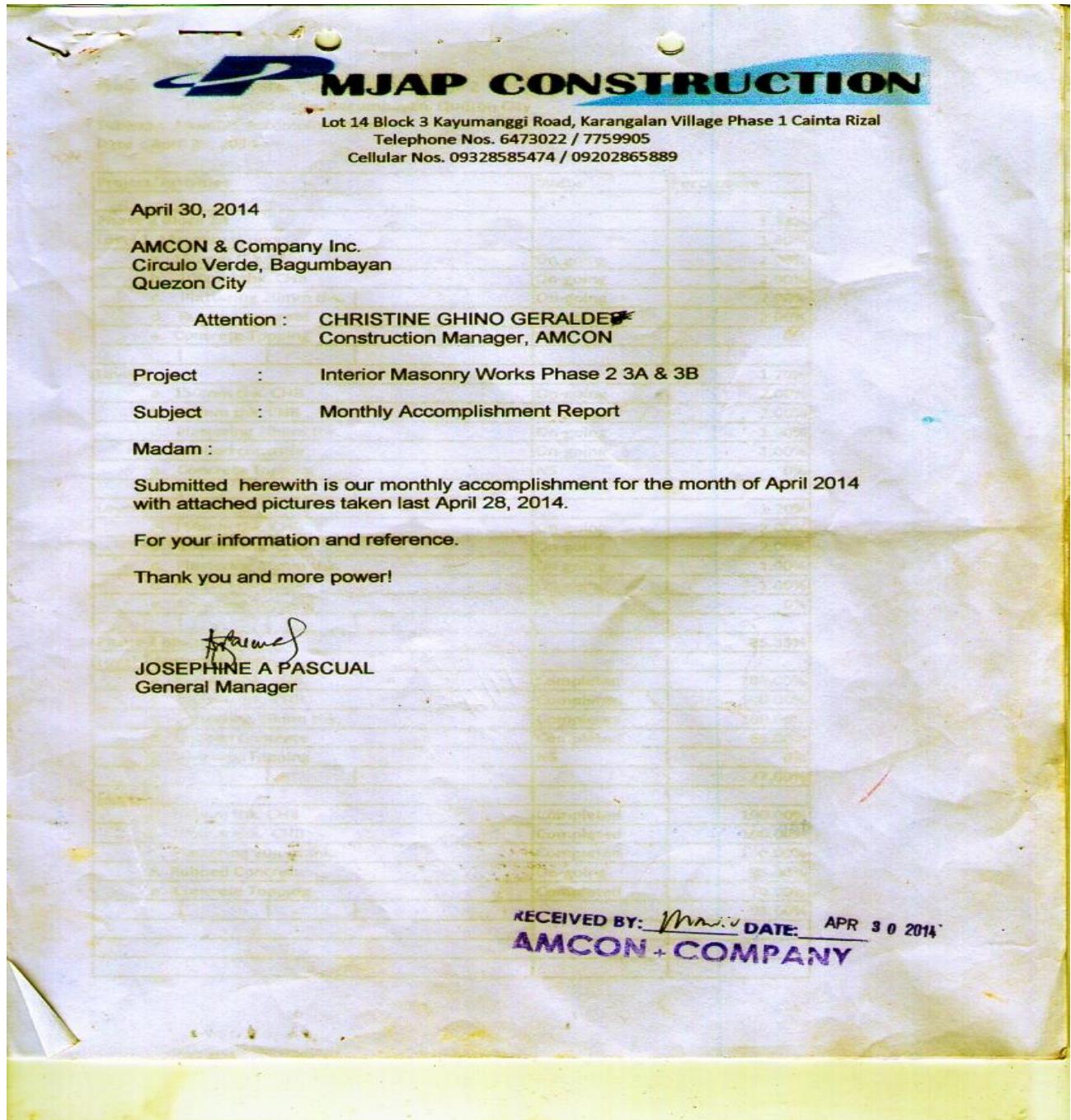


Figure 2.1.6 Monthly Accomplishment Report

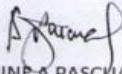
Project : Circulo Verde Garden Homes Phase 2  
 70 Calle Industria, Bagumbayan, Quezon City  
 Subject : Monthly Accomplishment  
 Date : April 30, 2014

Project/Activities	Status	Percentage
<b>Phase 2 Block 3A</b>		<b>1.33%</b>
<b>Level 1 Masonry Works</b>		<b>1.60%</b>
a. 150mm thk. CHB	On-going	2.00%
b. 100mm thk. CHB	On-going	2.00%
c. Plastering 20mm thk.	On-going	2.00%
d. Rubbed concrete	On-going	2.00%
e. Concrete Topping	NS	0%
<b>Level 2</b>		<b>1.20%</b>
a. 150mm thk. CHB	On-going	2.00%
b. 100mm thk. CHB	On-going	2.00%
c. Plastering 20mm thk.	On-going	1.00%
d. Rubbed concrete	On-going	1.00%
e. Concrete Topping	NS	0%
<b>Level 3</b>		<b>1.20%</b>
a. 150mm thk. CHB	On-going	2.00%
b. 100mm thk. CHB	On-going	2.00%
c. Plastering 20mm thk.	On-going	1.00%
d. Rubbed concrete	On-going	1.00%
e. Concrete Topping	NS	0%
<b>Phase 2 Block 3B</b>		<b>85.33%</b>
<b>Level 1 Masonry Works</b>		
a. 150mm thk. CHB	Completed	100.00%
b. 100mm thk. CHB	Completed	100.00%
c. Plastering 20mm thk.	Completed	100.00%
d. Rubbed Concrete	Completed	85.00%
e. Concrete Topping	NS	0%
		77.00%
<b>Level 2</b>		
a. 150mm thk. CHB	Completed	100.00%
b. 100mm thk. CHB	Completed	100.00%
c. Plastering 20mm thk.	Completed	100.00%
d. Rubbed Concrete	On-going	85.00%
e. Concrete Topping	Completed	70.00%
		91.00%

Figure 2.1.6.1 Monthly Accomplishment Report

Level 3		
a. 150mm thk. CHB	Completed	100.00%
b. 100mm thk. CHB	Completed	100.00%
c. Plastering 20mm thk.	Completed	100.00%
d. Rubbed Concrete	On-going	80.00%
e. Concrete Topping	On-going	60.00%
		88.00%

Prepared and submitted By:

  
**JOSEPHINE A. PASCUAL**  
General Manager

**Figure 2.1.6.2 Monthly Accomplishment Report**

## **CONTRACTOR'S DAILY WORK REPORT**

AMCON & COMPANY, INC.

Círculo Verde

Circulo Verde  
No. 70 Calle Industria Bagumbayan, Quezon City

## **Figure 2.1.7 Contractor's Daily Work Report**

## CONTRACTOR'S DAILY WORK REPORT

AMCON & COMPANY, INC.  
Círculo Verde  
No. 70 Calle Industria Bagumbayan, Quezon City

<b>EVENTS, VISITORS TO THE SITE AND/OR IMPORTANT ISSUES</b> (A brief description of any significant events or issues to report. Include quantities and units if applicable.)	
Visitors <ul style="list-style-type: none"><li>1. AMCON – Construction Manager</li><li>2 . AMCON - Assist. Construction Manager</li><li>3. AMCON - Project Engineer</li></ul>	
Issues <ul style="list-style-type: none"><li>1. Continuation of works at SOG, Center Podium</li><li>2. Deliveries of Construction Materials</li></ul>	
<b>WORKS TO BE ACCOMPLISHED THE FOLLOWING DAY</b> (A brief description or listing of the work to be accomplished, delivered or installed within the day or the succeeding days. Include quantities and units if applicable.)	
<ul style="list-style-type: none"><li>1. Pouring of Stiffener Column</li><li>2. Hauling of CHB at Level 2 , SOG, Center Podium</li></ul>	
<b>REVIEW OF SCHEDULE</b> (Identify works that are delayed or will be delayed and enumerating items of work or critical factors that should be accelerated or acted upon to catch up with the timetable. Identify the parties involved or concerned.)	
<ul style="list-style-type: none"><li>1. Removal of Form Works – NABI and ARDI</li></ul>	
<b>Remarks :</b> This form must be accomplished daily by all Contractors and submitted in triplicate (3 copies) to AMCON & COMPANY, INC. every morning of the following day.	

Prepared by:  
(CONTRACTOR'S NAME)

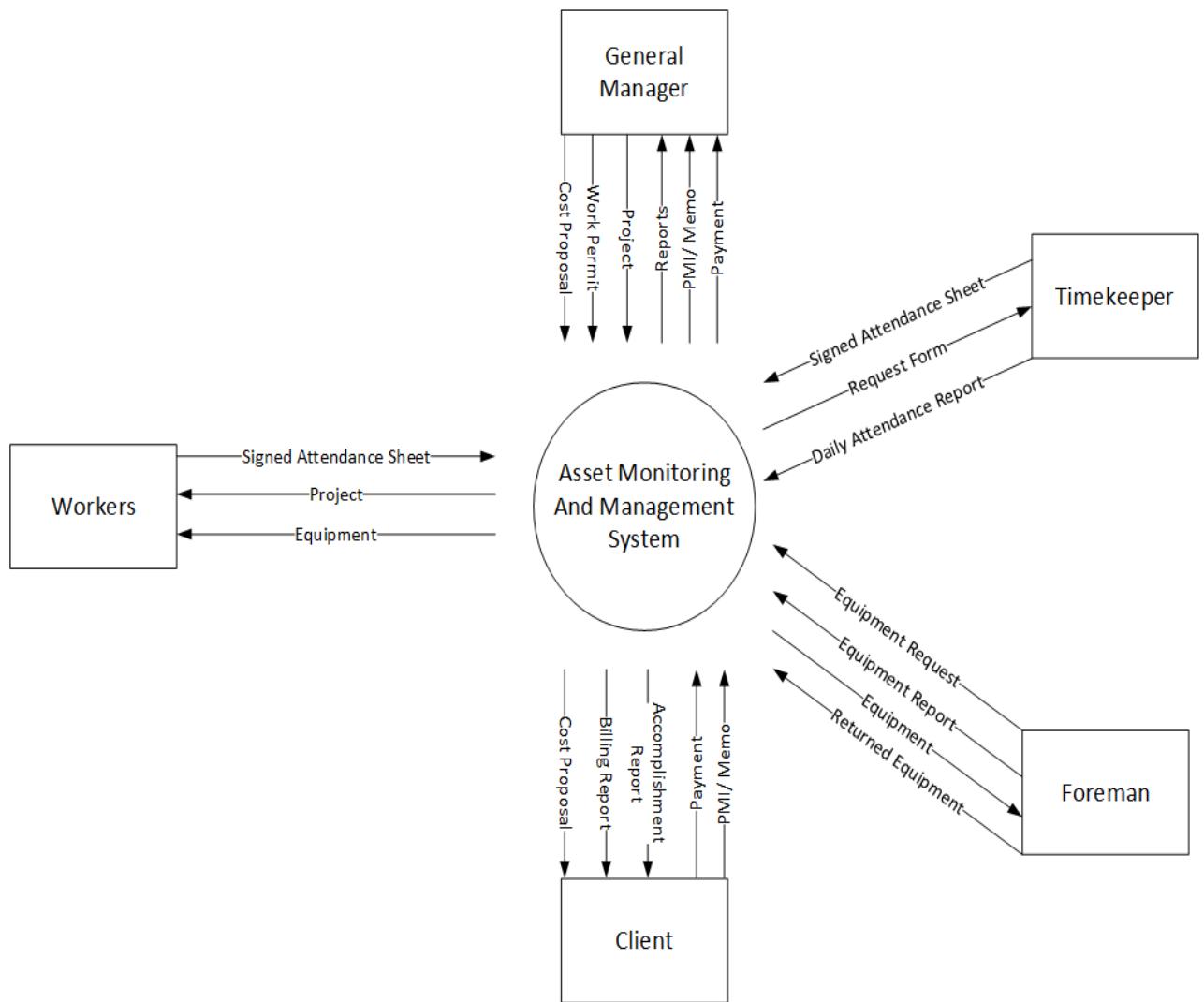
(NAME OF AUTHORIZED PERSON)  
(Position)

**Figure 2.1.7.1 Contractor's Daily Work Report**

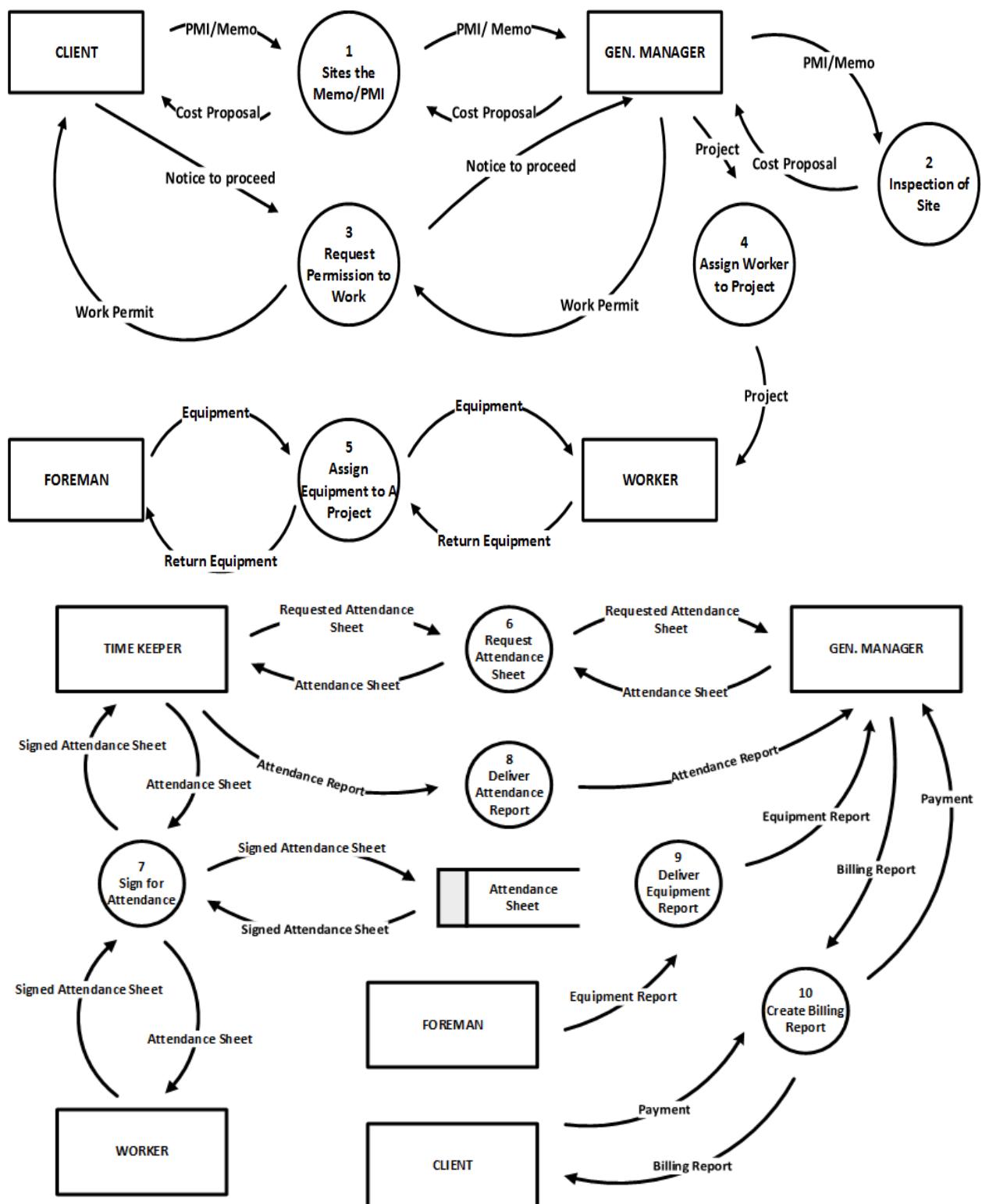
## 2.2 Policies and Procedures

### 2.2.1 Procedures

#### 2.2.1.1 Context Diagram



### 2.2.1.2 Level 1 DFD



## **2.2.2 Policies**

### **2.2.2.1 Business Requirements**

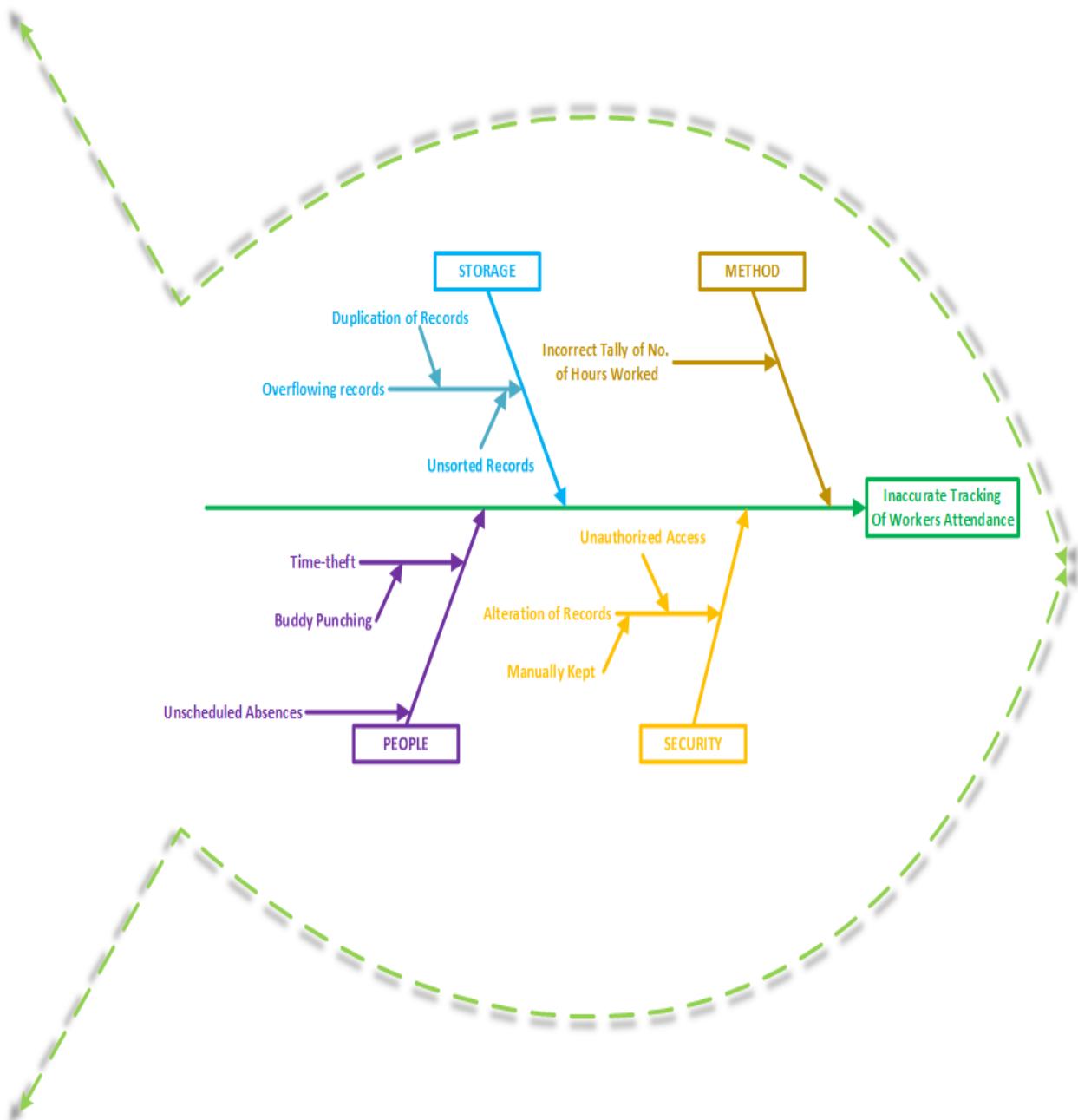
Business Requirements ID	Description
BR – 001	<p>The client must have the following requirements:</p> <ul style="list-style-type: none"><li>• Copy of lot title or lot plan; either present or previous Owner</li><li>• If lot is not owned; affidavit of consent from owner or contract of sale or lease contract</li><li>• Tax declaration</li><li>• Latest tax receipts</li><li>• Owner's or building permit applicant's Community Tax Certificate (cedula)</li><li>• Lot survey c/o subdivision</li><li>• Soil exploration or soil bore test if project is 3 floors and above</li><li>• Barangay clearance specific for construction</li><li>• If Building permit applicant does not stay in Philippines, Special Power of Attorney (for construction purpose)</li></ul>
BR – 002	The General Manager shall check if the documents is valid
BR – 003	<p>The client must submit the following requirements to the General Manager:</p> <ul style="list-style-type: none"><li>• Project Manager Instruction(PMI)</li><li>• Project Memorandum</li><li>• Permit to work</li></ul>

### **2.2.2.2 Business Rules**

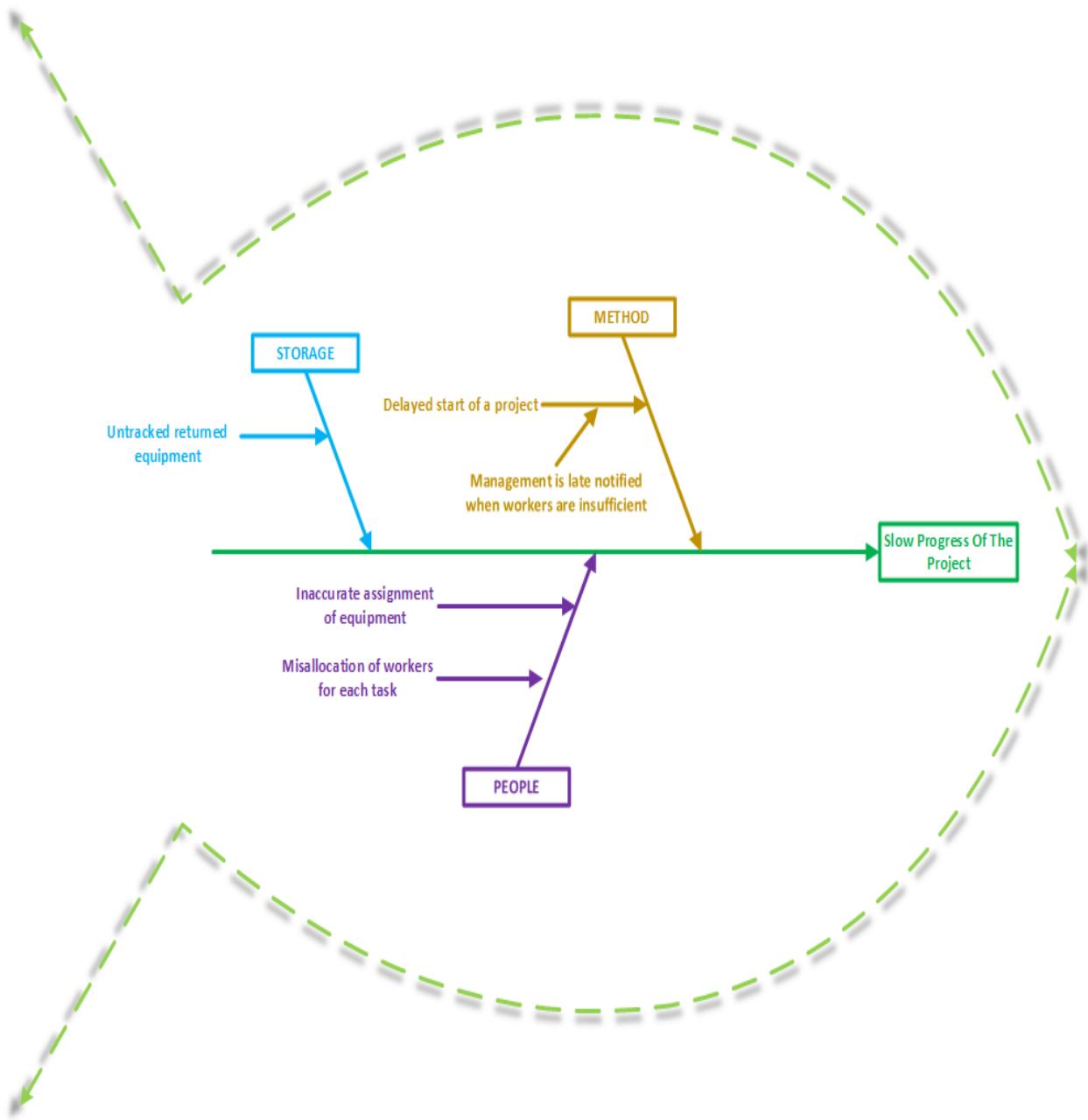
Business Rule ID	Description
BR – 1	The applicant must have knowledge about construction
BR – 2	The applicant must submit the following requirements to the General Manager: <ul style="list-style-type: none"><li>• Certificate of last work</li><li>• Birth certificate</li></ul>
BR – 3	The applicant must have skills to be put in the mason category of workers
BR – 4	If the worker will take a leave, he must notify the General Manager or the General Foreman at least 2 -3 days before
BR – 5	If the worker is absent they must submit a valid reason and if there's any they must submit a medical certificate

## 2.3. Problem Analysis

### 2.3.1 Fishbone Diagram



**Fig. 2.3.1 Attendance Fish Bone**



**Fig. 2.3.2 Asset Management Fish Bone**

## **2.3.2 Conclusion and Recommendation**

### **2.3.2 .1 Conclusion**

The project team concludes that the company's manual procedures develop problems in tracking and managing their asset. Unmanaged deployment of workers and equipment sometimes causes delay in progress of the project. Their manual processing makes it prone to losing papers developed from day to day operations. Producing multiple copies as back up makes overflowing and redundant records, which makes it more difficult to update and search for past records. Producing reports takes a lot of time because of manual retrieval and access to required documents.

Long distance between sites to their main office causes delays in processing information and because the documents are just written in papers, it takes a long time in presenting it to respective authority.

### **2.3.2 .2 Recommendation**

Concluding on what the project team has studied and gathered, we recommend to our client a computer web based system of Asset Monitoring and Management System. This computerized system will help manage the assignment of equipment and workers to their specific task and schedules the worker's leave to improve their overall productivity. It will provide a secured storage of the company's information that will be authorized by specific users. The system will help the users to search and update past records. The system will also help the users to generate reports easily by having a repository or module.

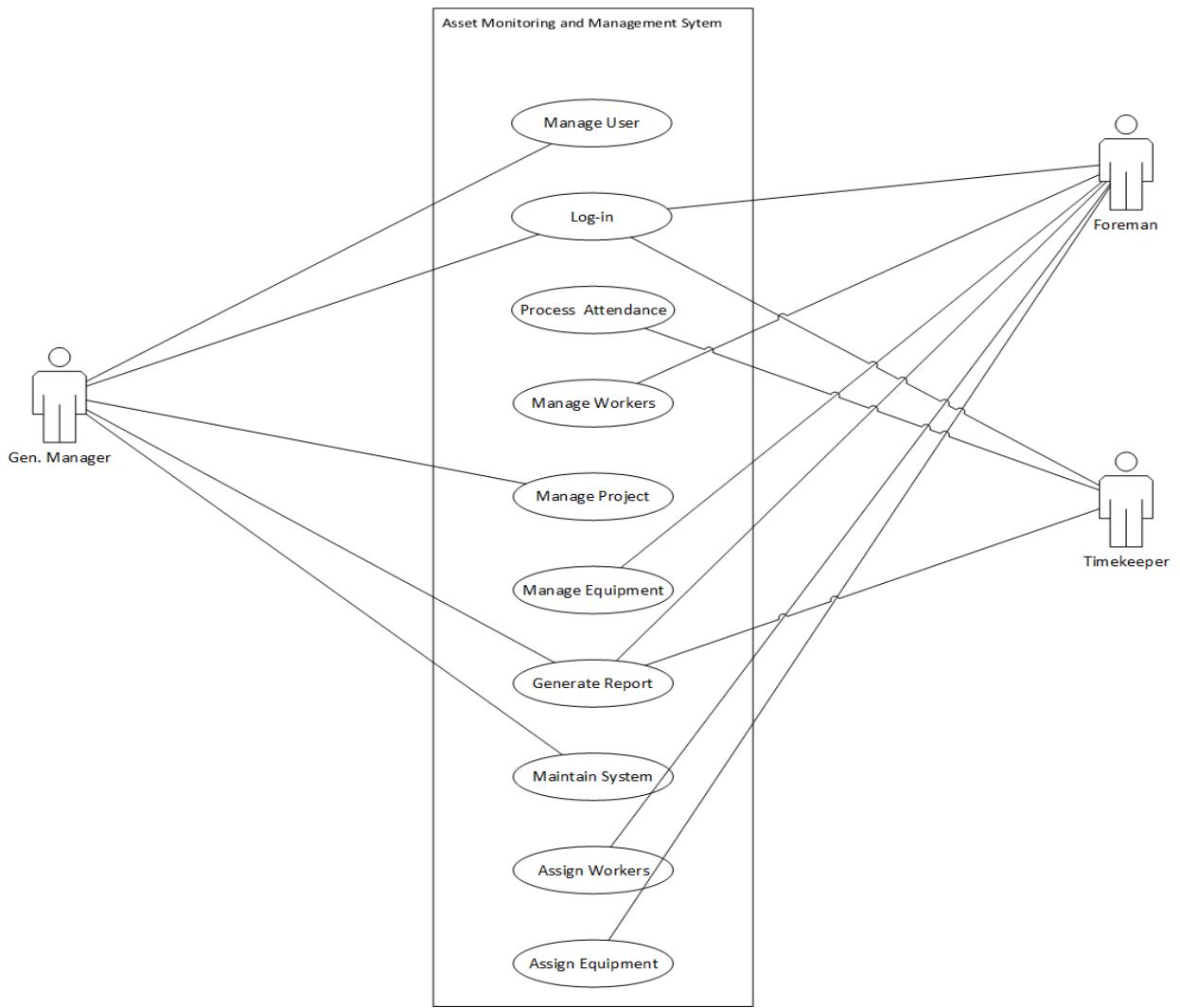
The system is web based, so we recommend the user's familiarity in operating a web based system for better utilization and recognition of the system. The computerized system is user friendly so it is understandable and easy to use.

## Chapter 3: Proposed System Definition

### 3.1 Functional Specification

#### 3.1.1 System Boundaries

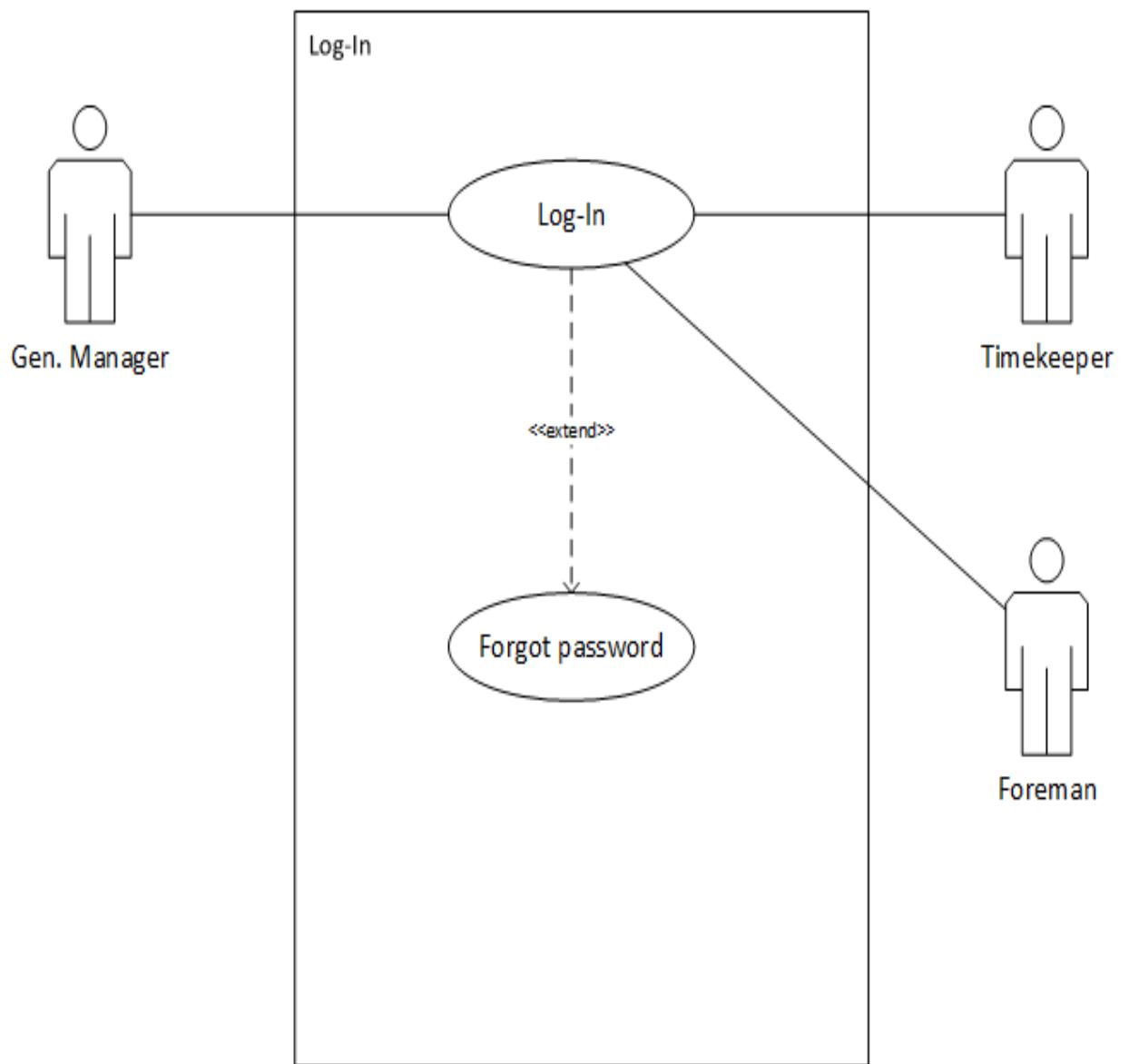
##### 3.1.1.1 System Use Case Diagram



**Figure 3. 1. 1 Use Case**

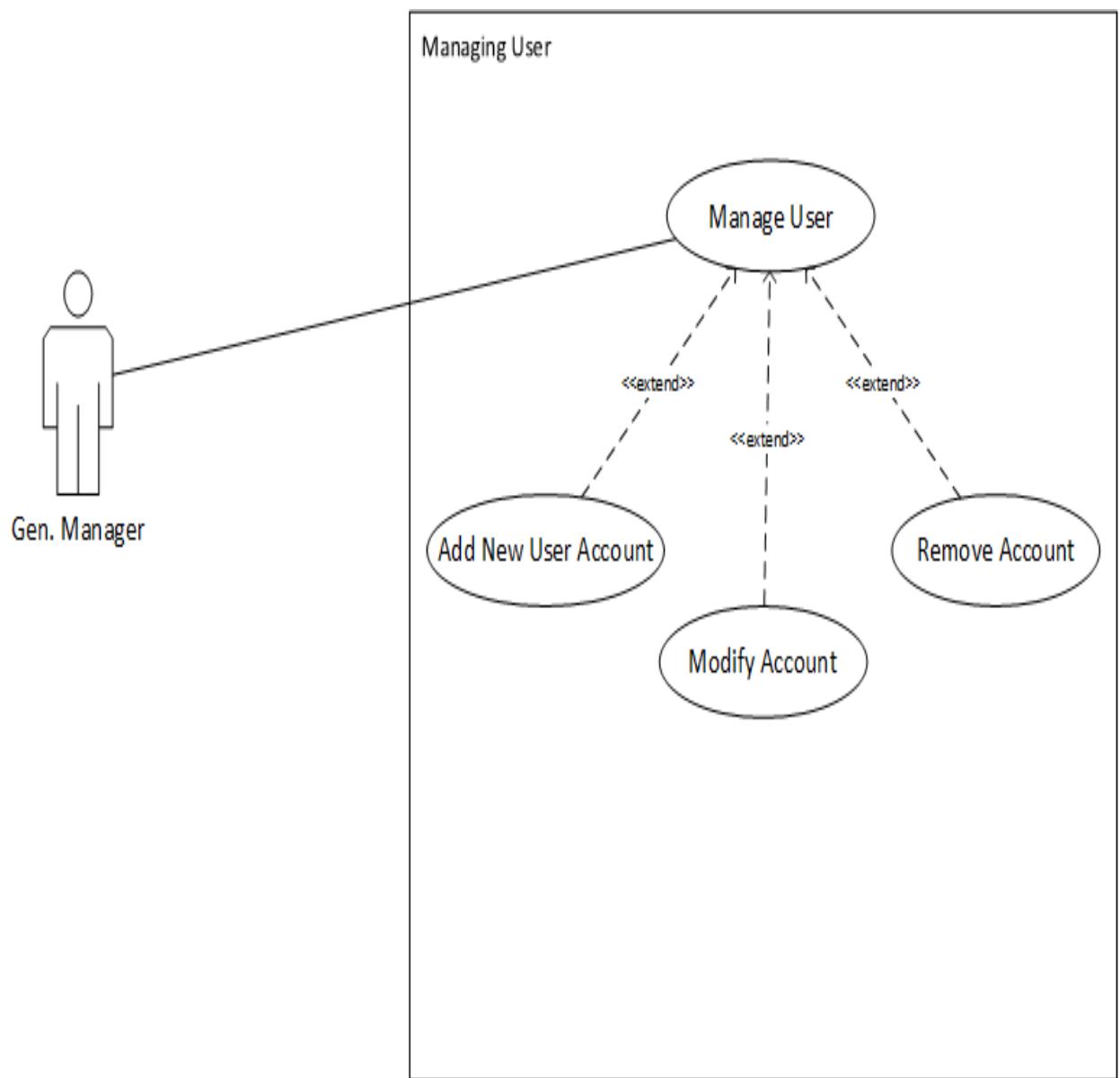
#### 3.1.1.2 Detailed Use Case Diagram

##### Detailed Use Case for Log-In



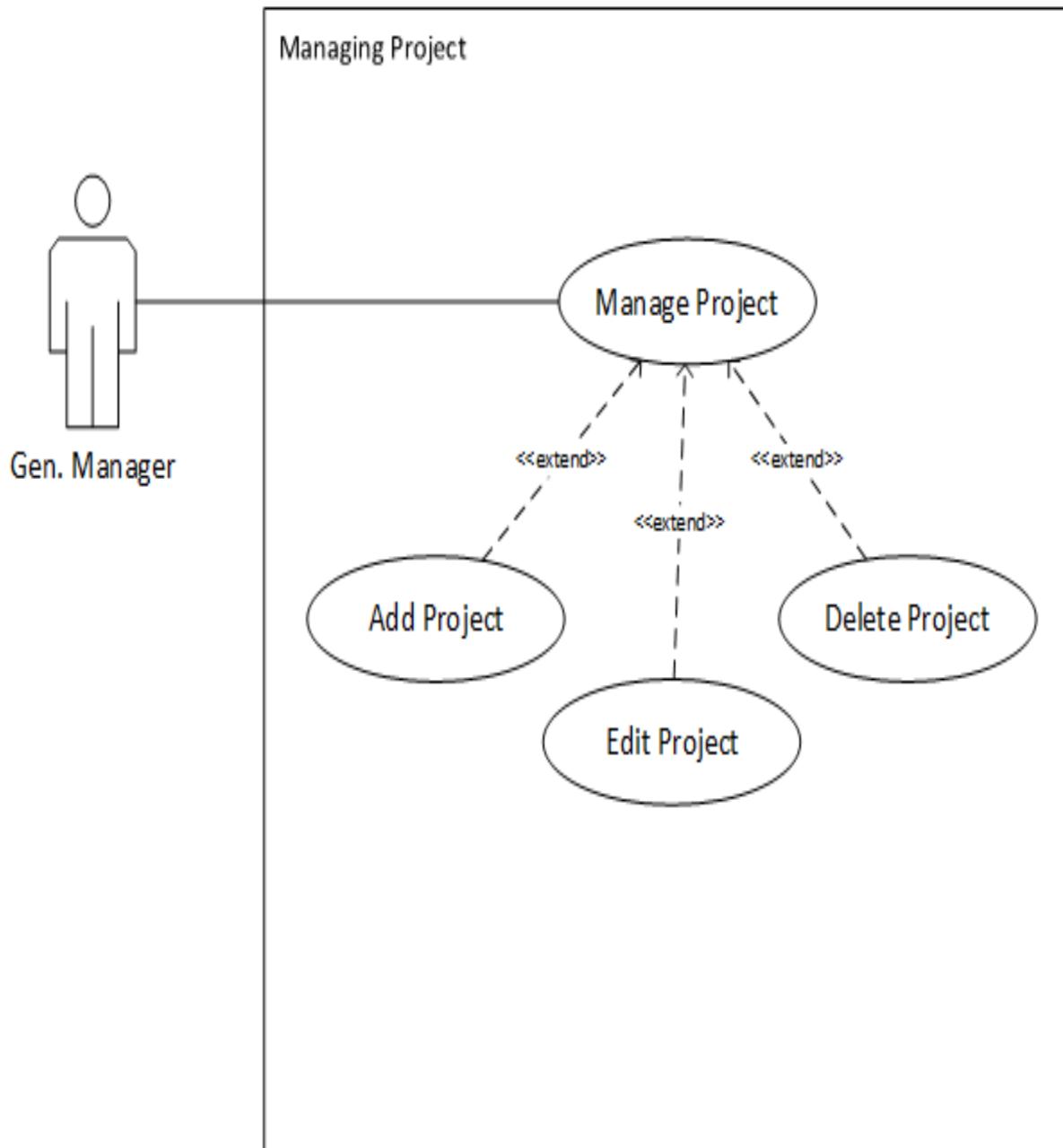
**Figure 3. 1. 2 Detailed Use Case – Log In**

#### Detailed Use Case for User



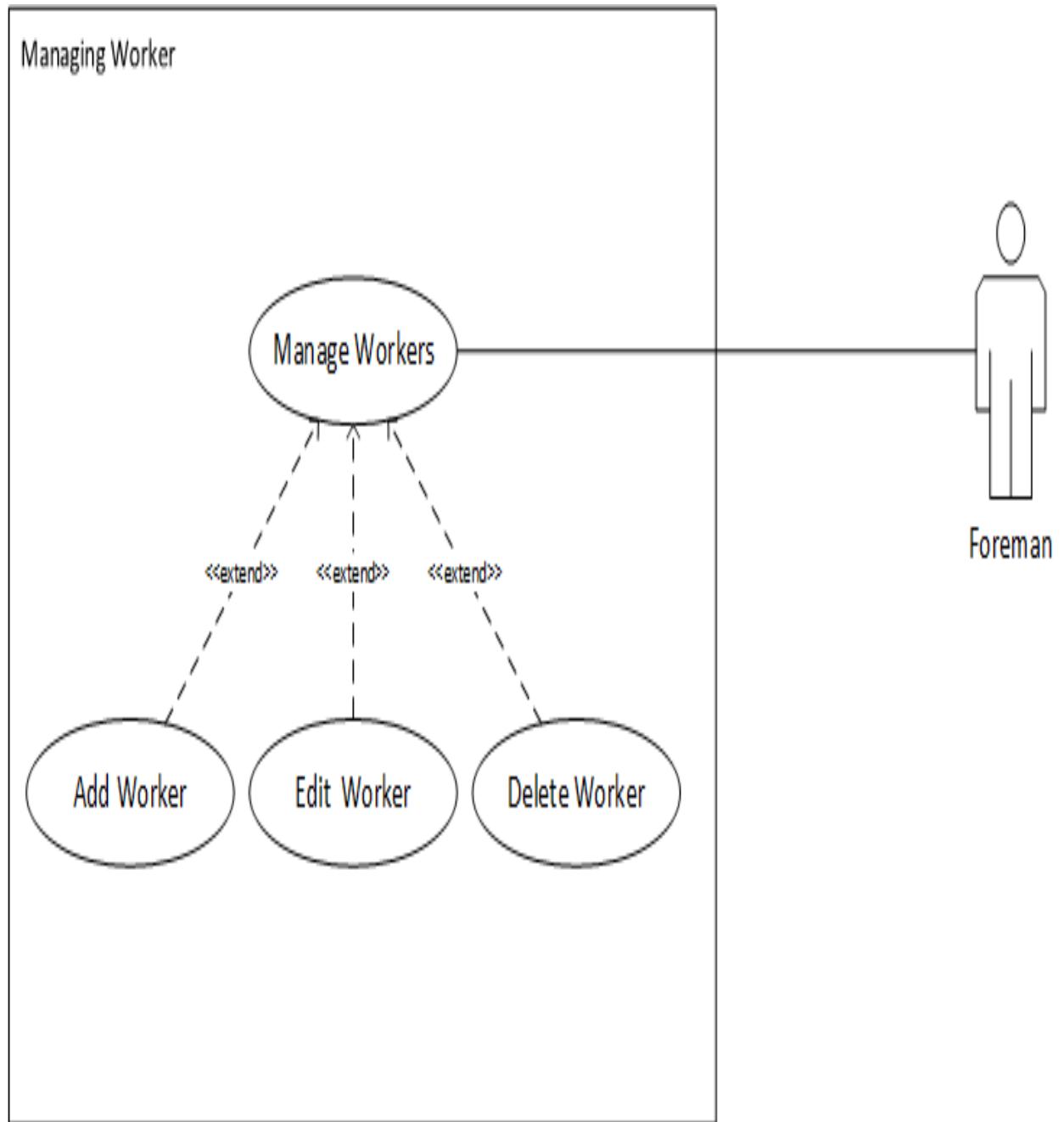
**Figure 3. 1. 3 Detailed Use Case – User**

### Detailed Use Case for Project



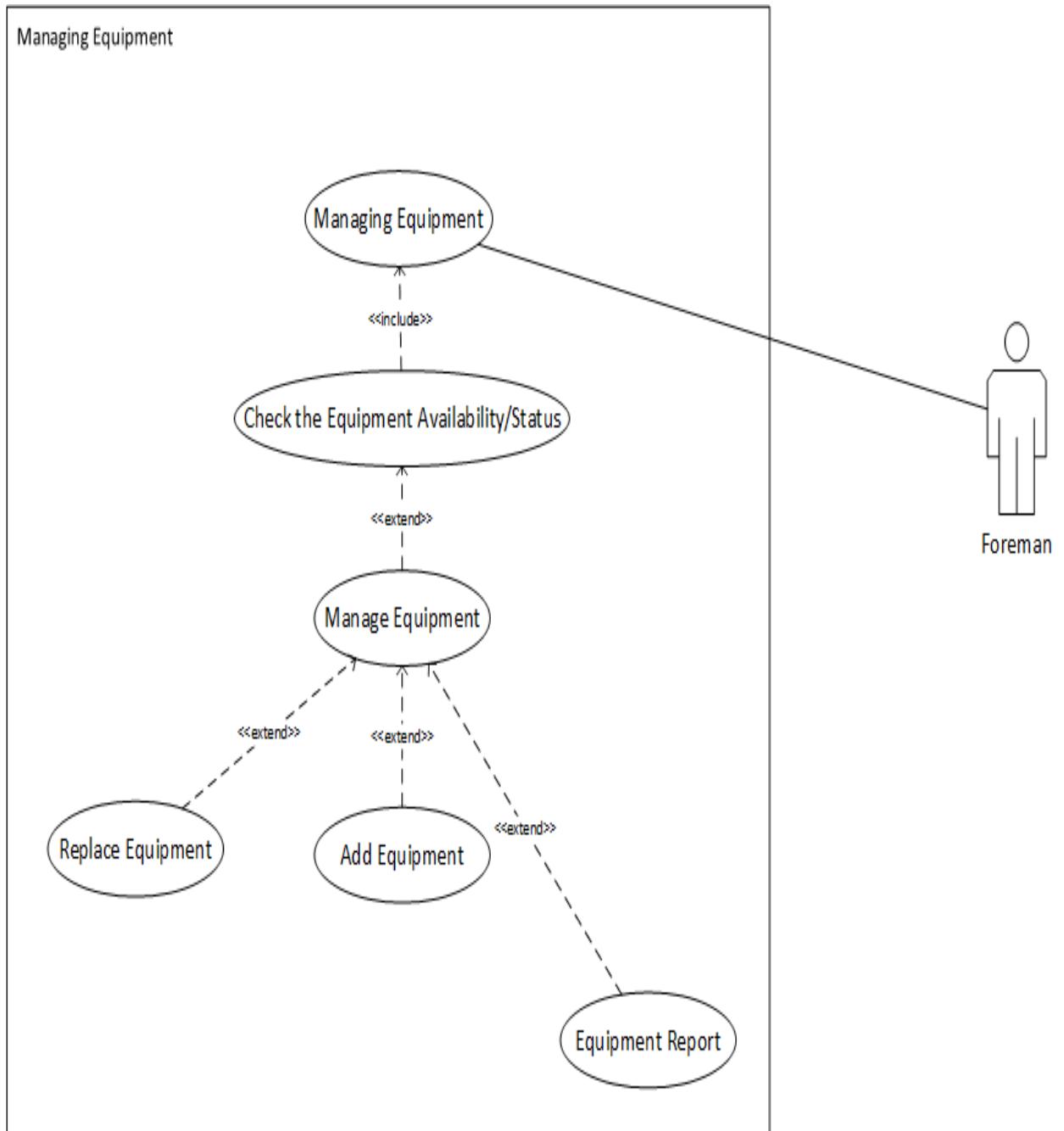
**Figure 3. 1. 4 Detailed Use Case – Project**

### Detailed Use Case for Worker



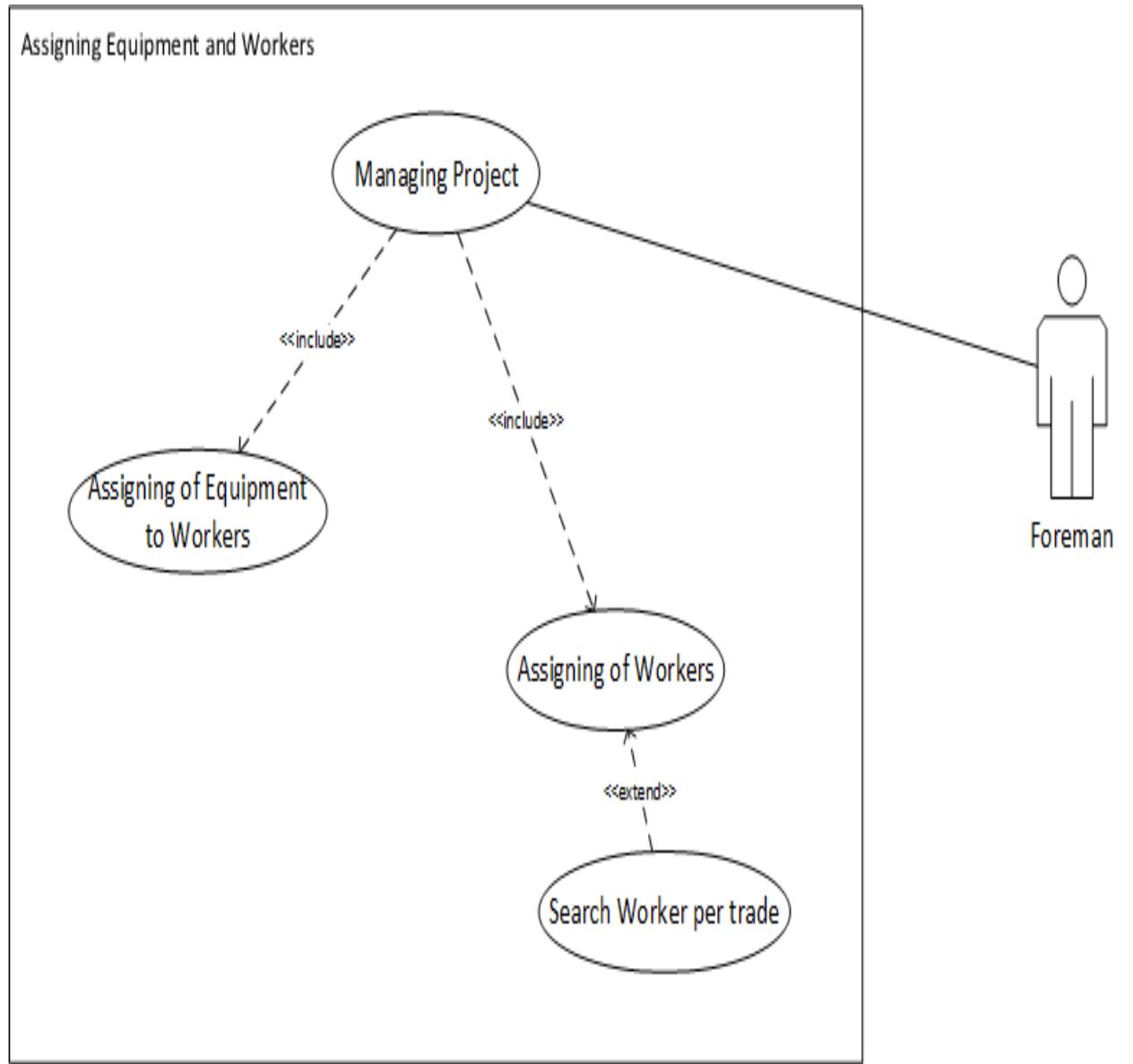
**Figure 3. 1. 5 Detailed Use Case – Worker**

## Detailed Use Case for Equipment



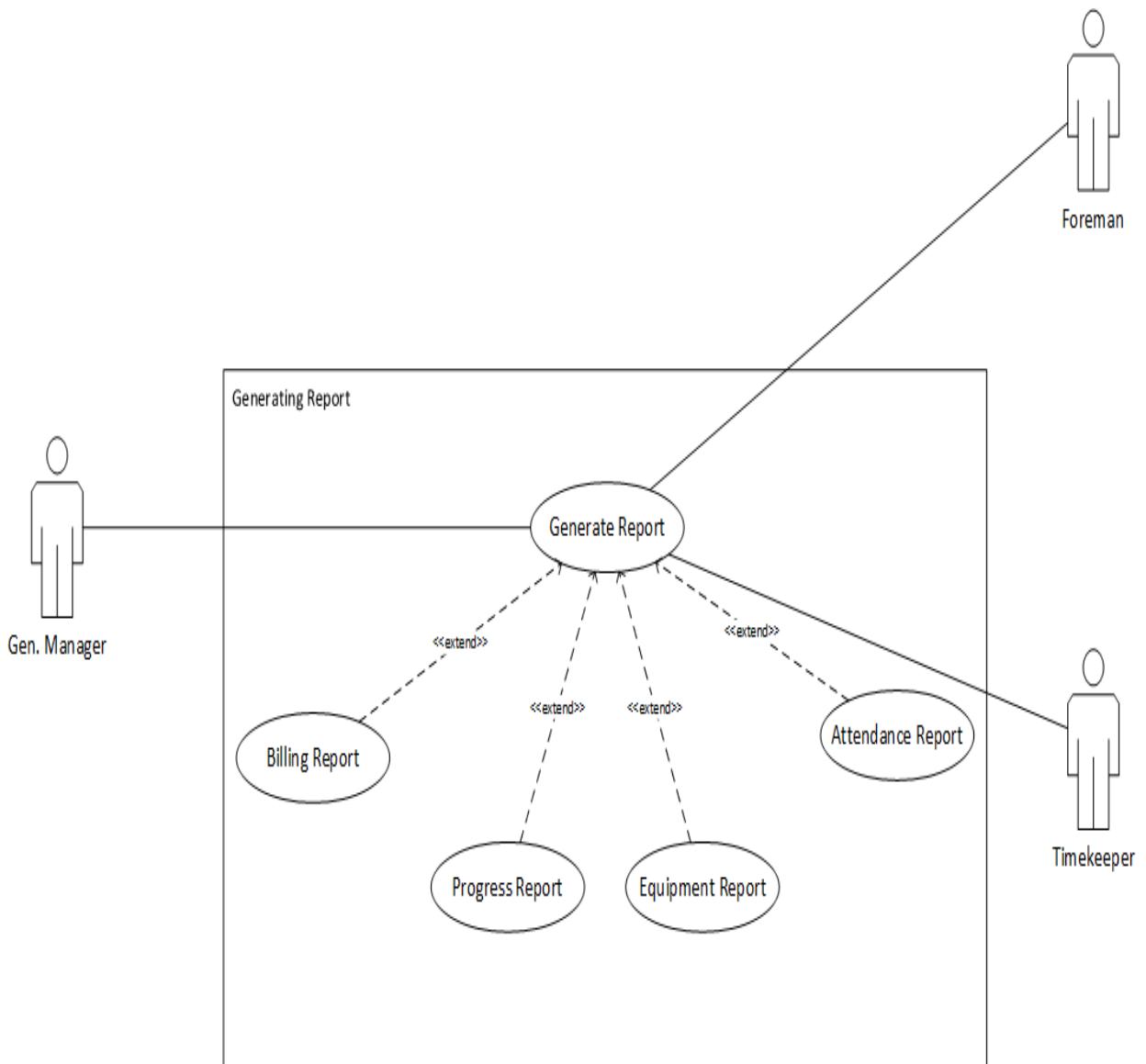
**Figure 3. 1. 6 Detailed Use Case – Equipment**

## Detailed Use Case for Assigning



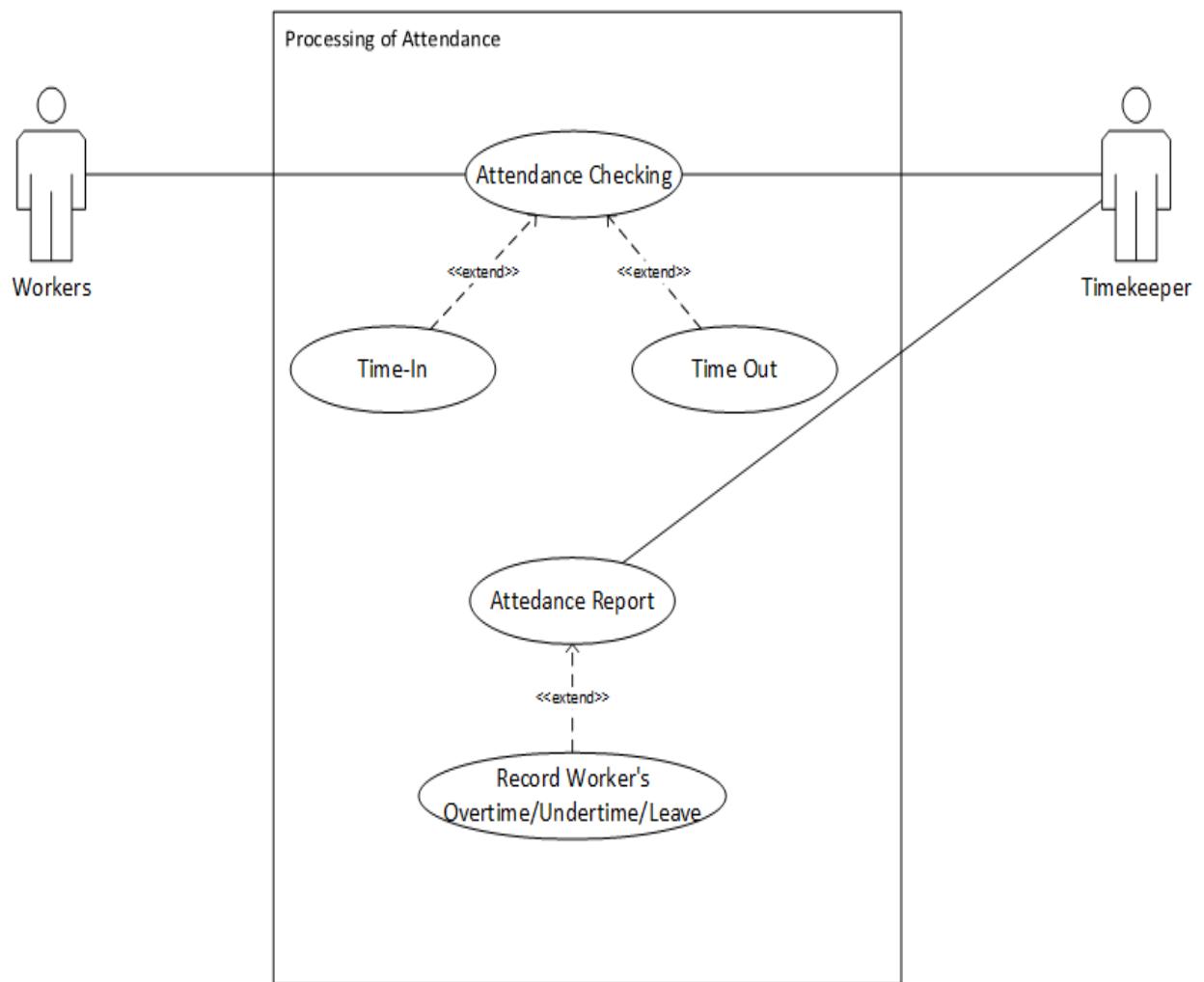
**Figure 3. 1. 7 Detailed Use Case – Assigning**

### Detailed Use Case for Report



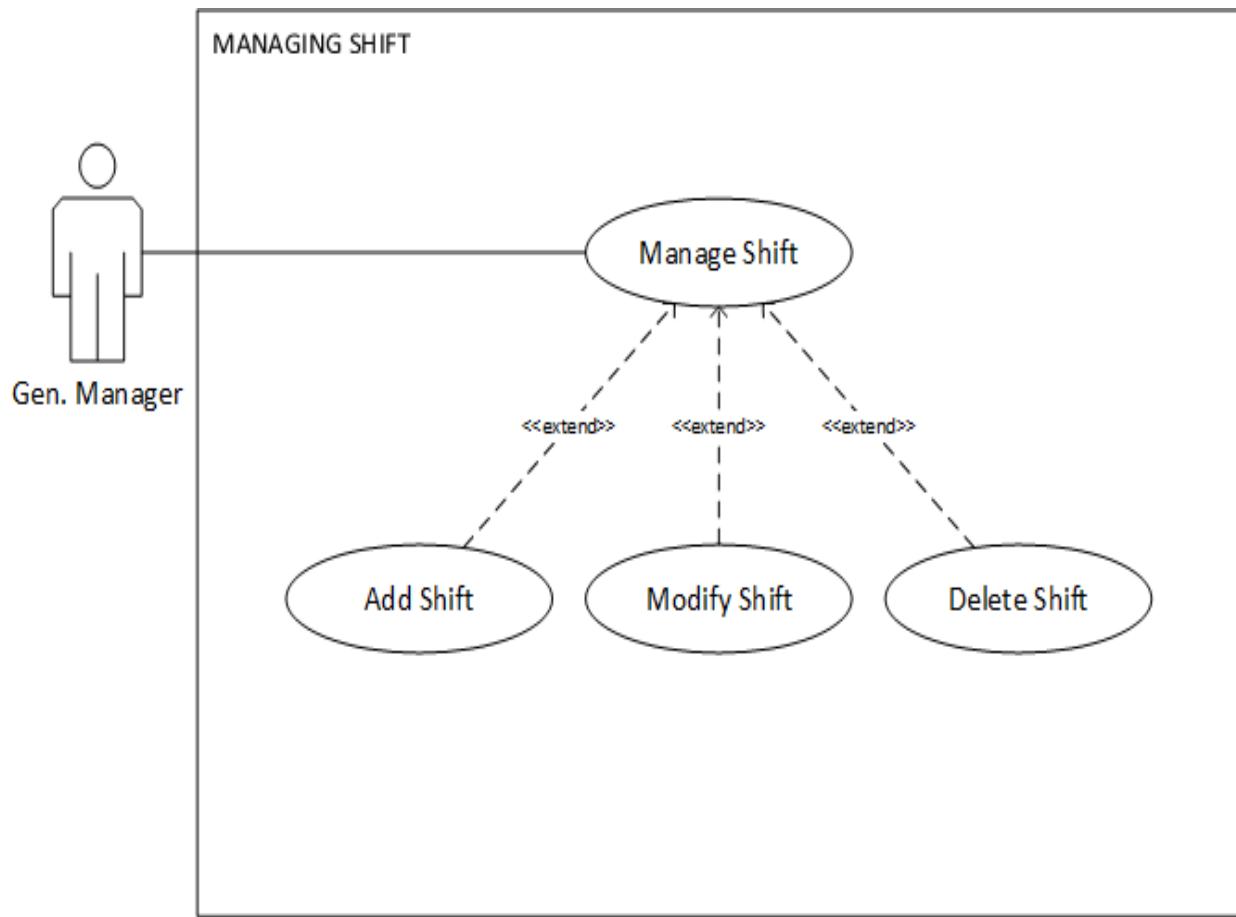
**Figure 3. 1. 8 Detailed Use Case –Report**

### Detailed Use Case for Attendance



**Figure 3. 1. 9 Detailed Use Case – Attendance**

### Detailed Use Case for Shift



**Figure 3. 10 Detailed Use Case –Shift**

### 3.1.1.3 System Flow

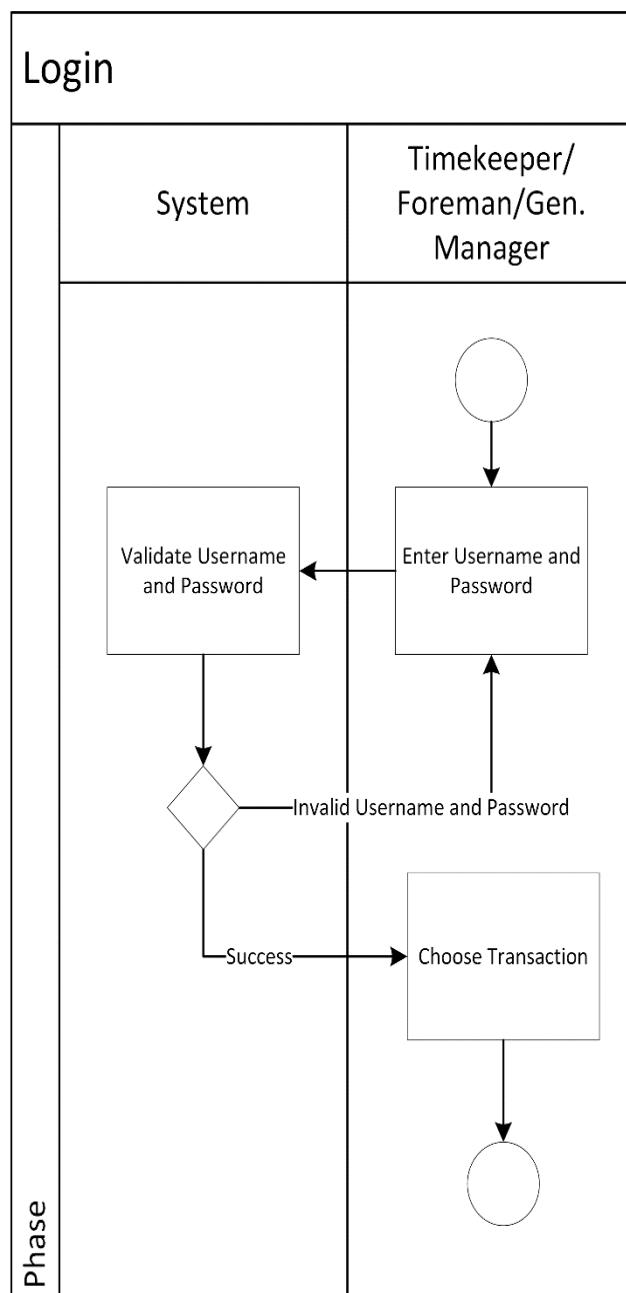
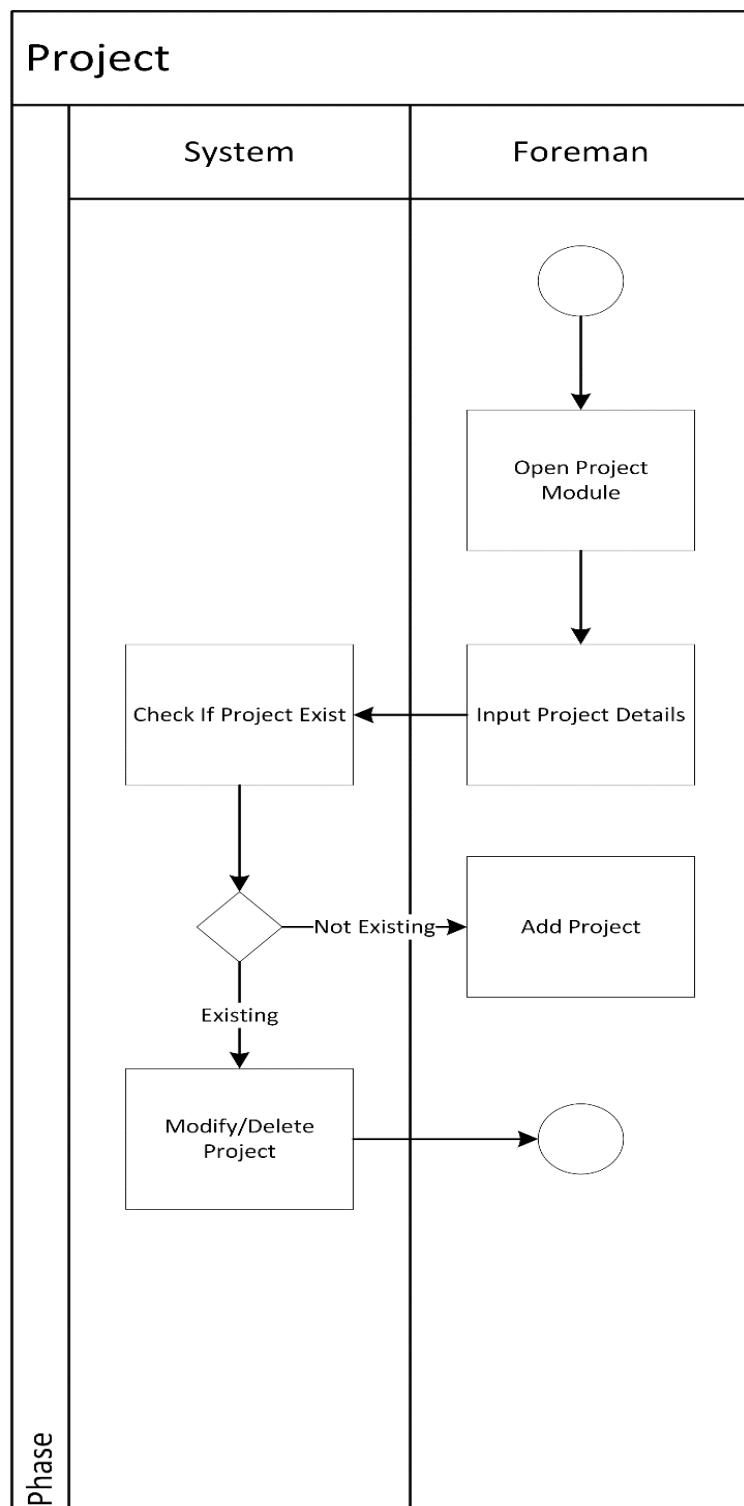
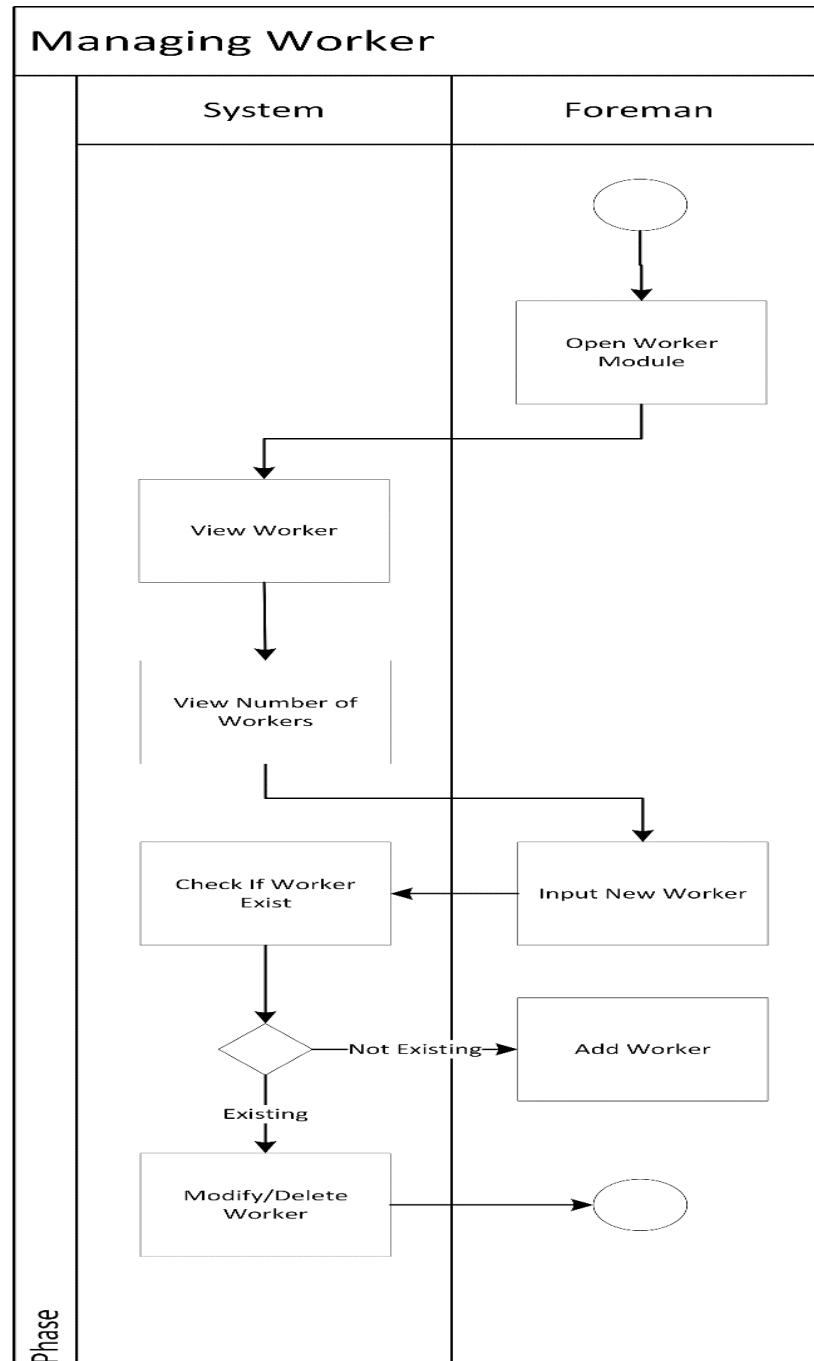


Figure 3.1.11 System Flow Diagram - Log-in

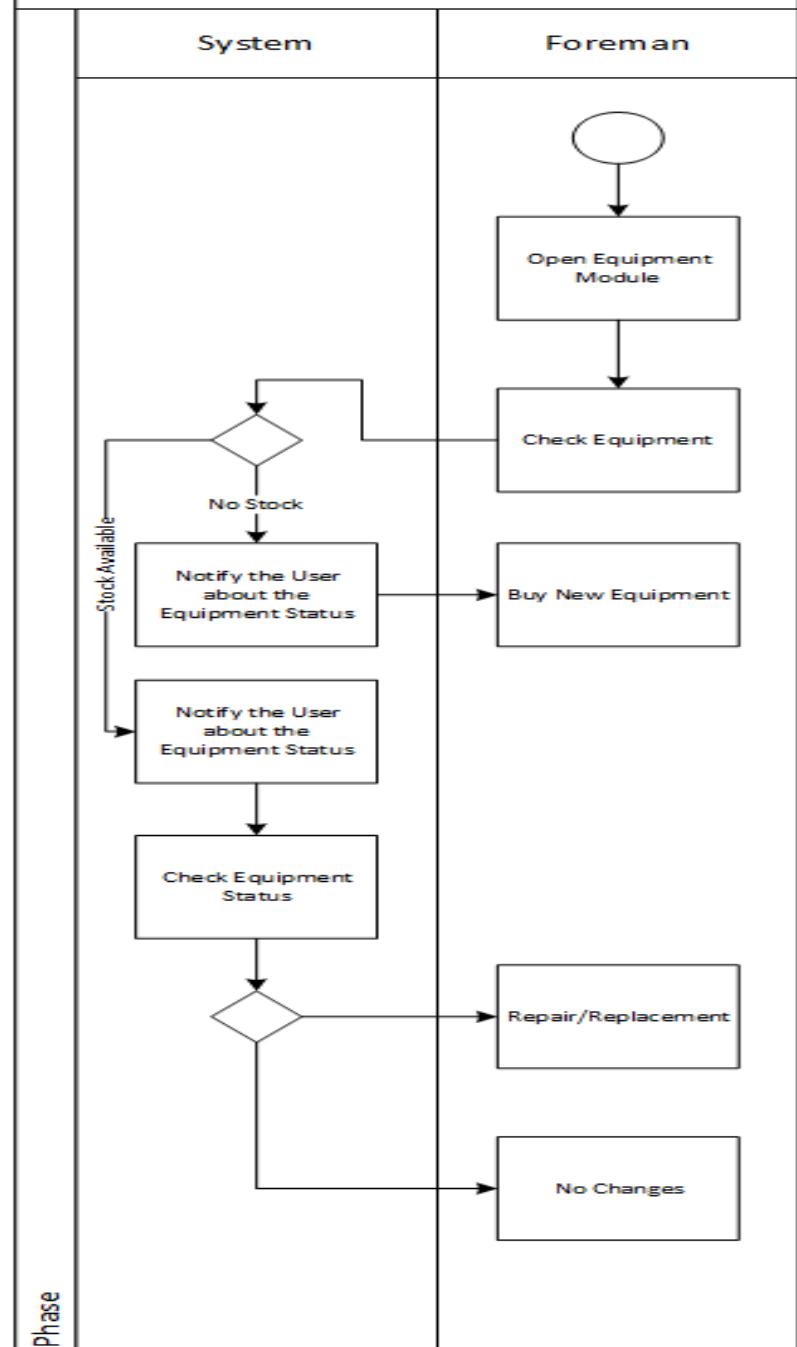


**Figure 3. 1. 12 System Flow Diagram – Project**

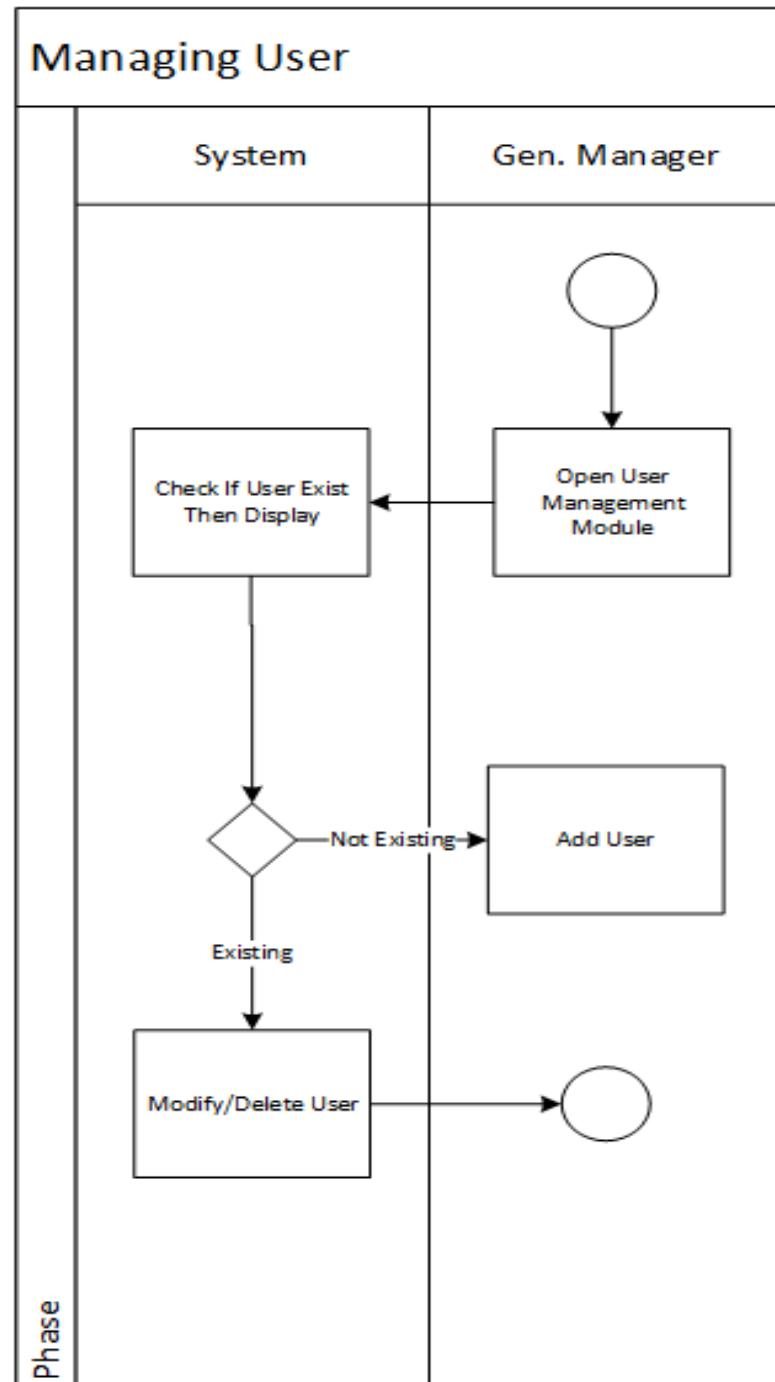


**Figure 3. 1. 13 System Flow Diagram – Worker**

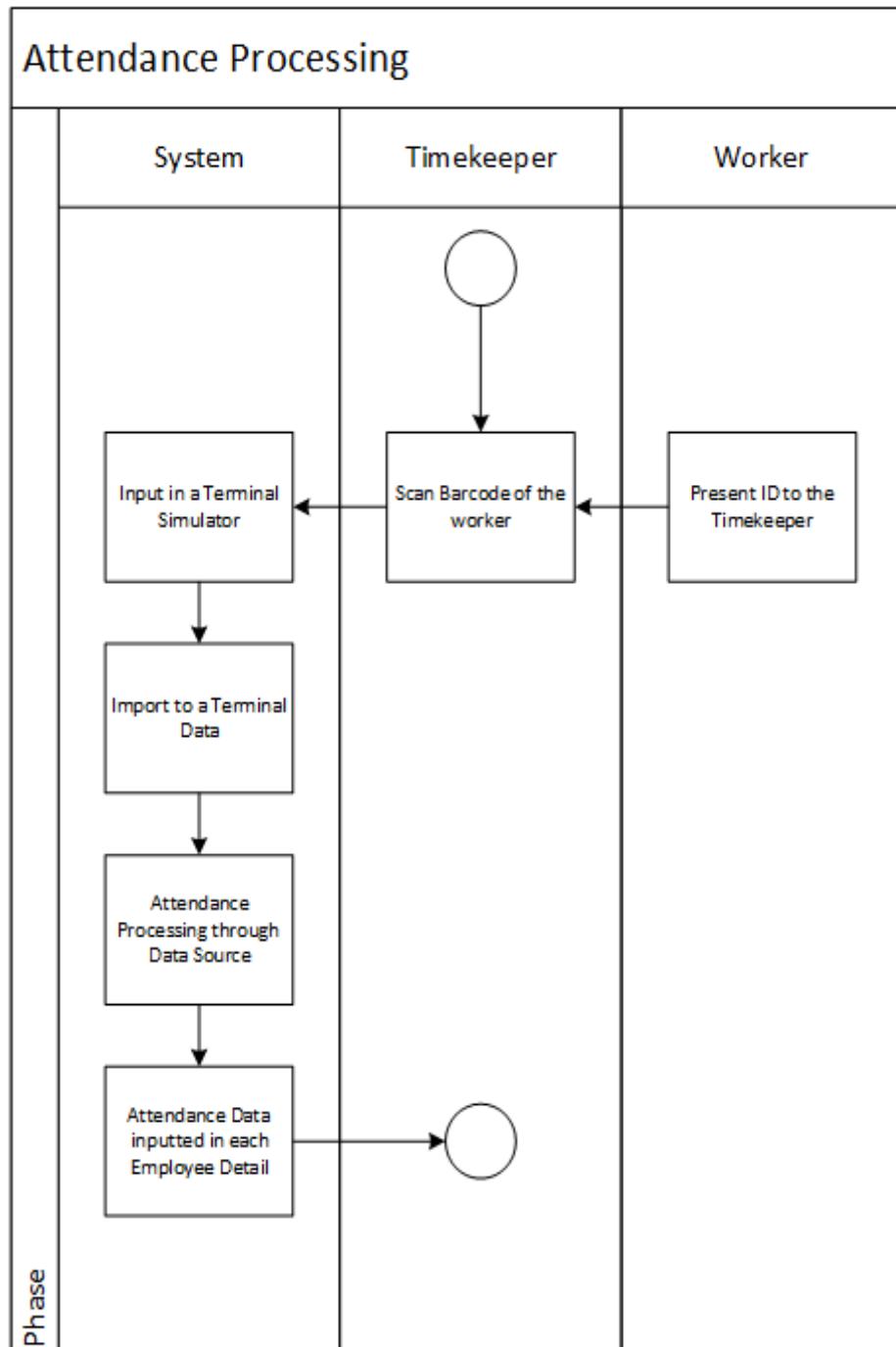
## Managing Equipment



**Figure 3. 1. 14 System Flow Diagram – Equipment**



**Figure 3. 1. 15 System Flow Diagram – User**



**Figure 3. 1. 16 System Flow Diagram – Attendance**

## Creation of Reports

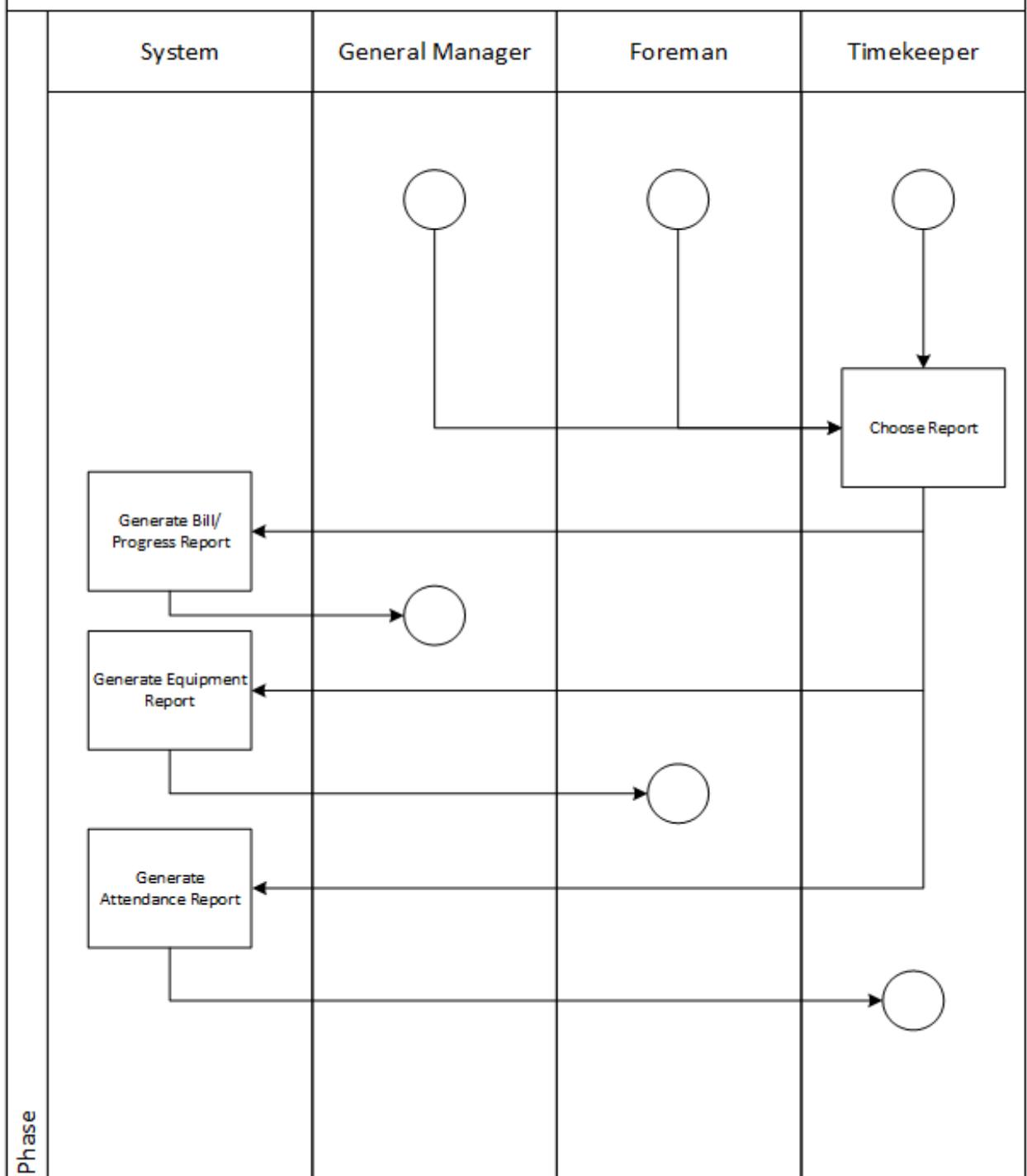
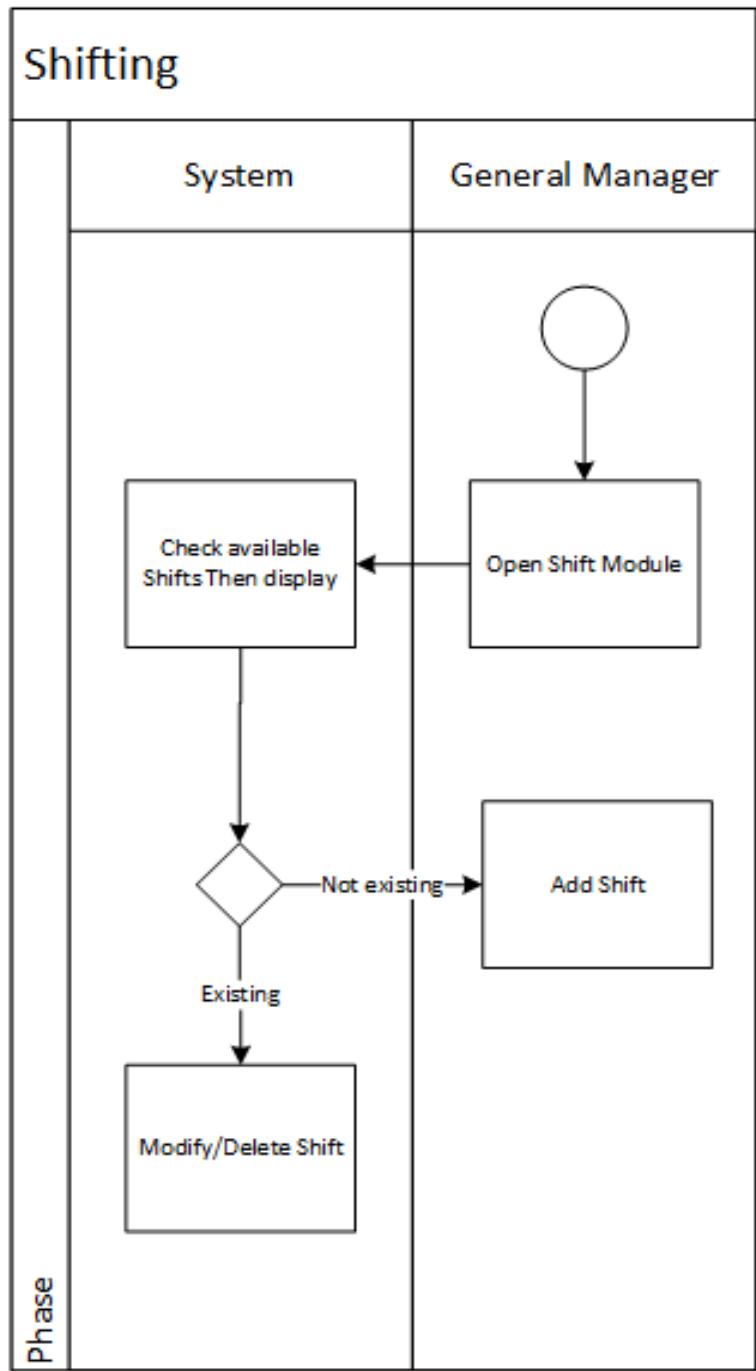


Figure 3. 1. 17 System Flow Diagram – Report



**Figure 3. 1. 18 System Flow Diagram – Shifting**

## Assigning of Worker

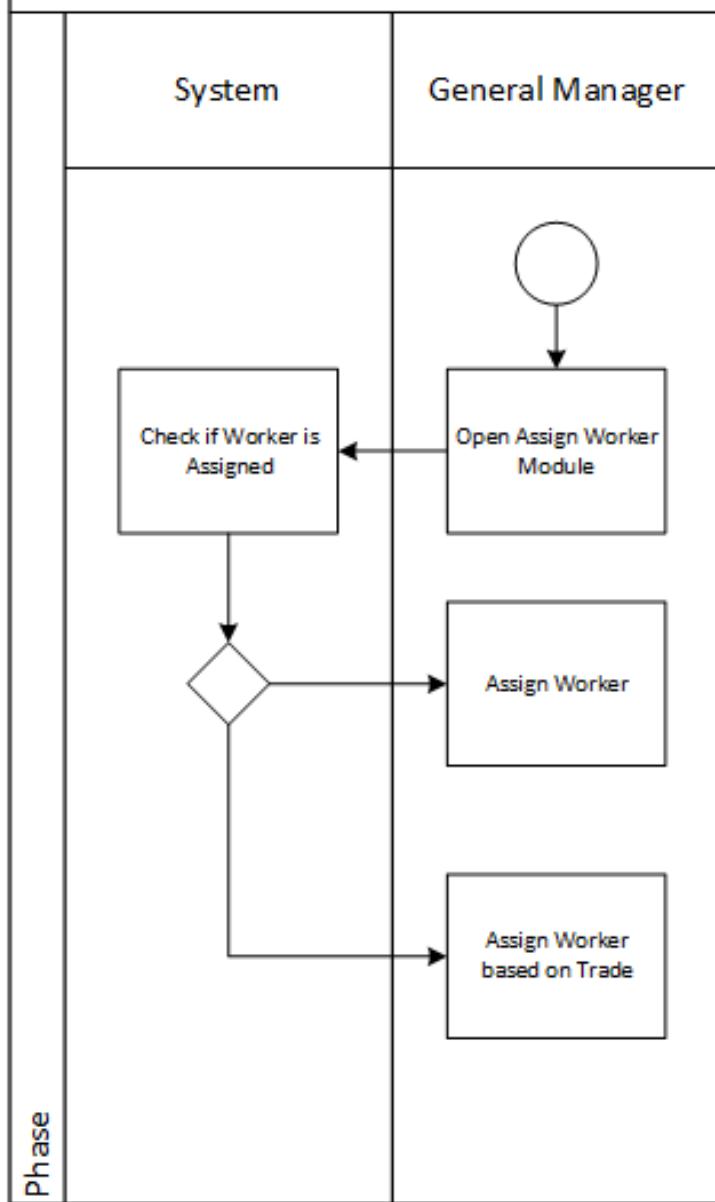
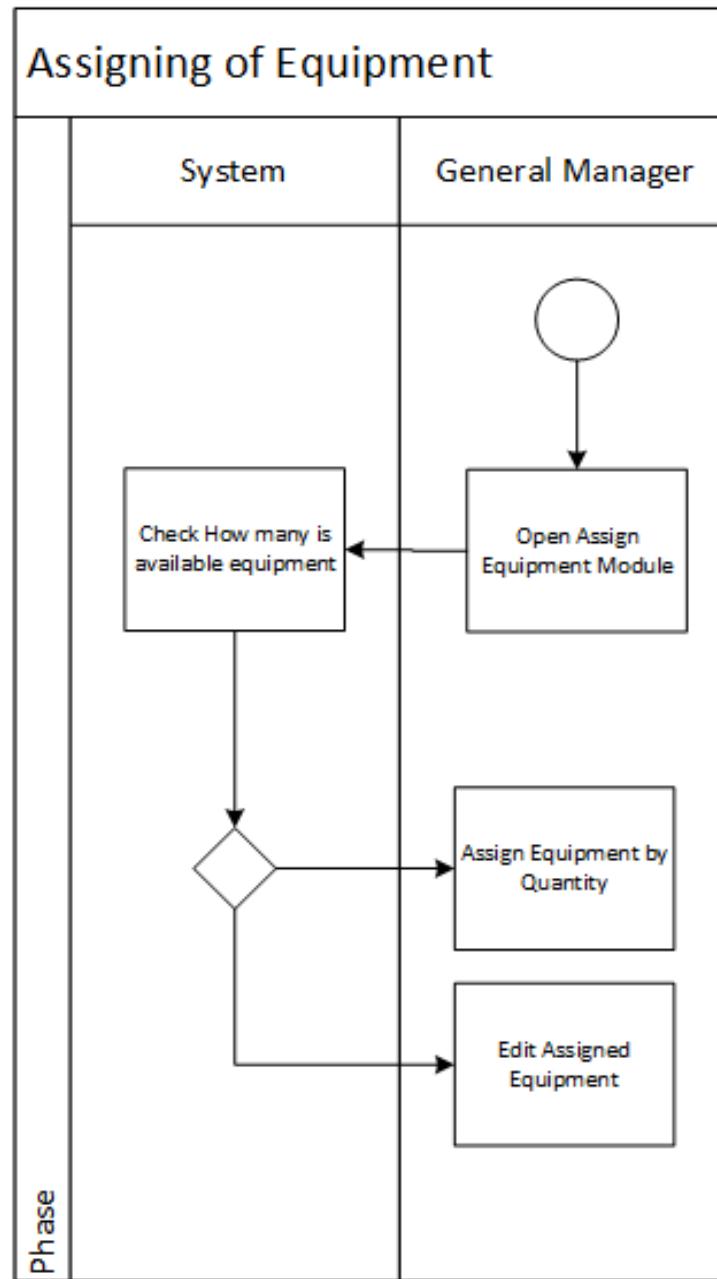


Figure 3. 1. 19 System Flow Diagram – Assigning of Worker



**Figure 3. 1. 20 System Flow Diagram – Assigning of Equipment**

## 3.2 Technical Specification

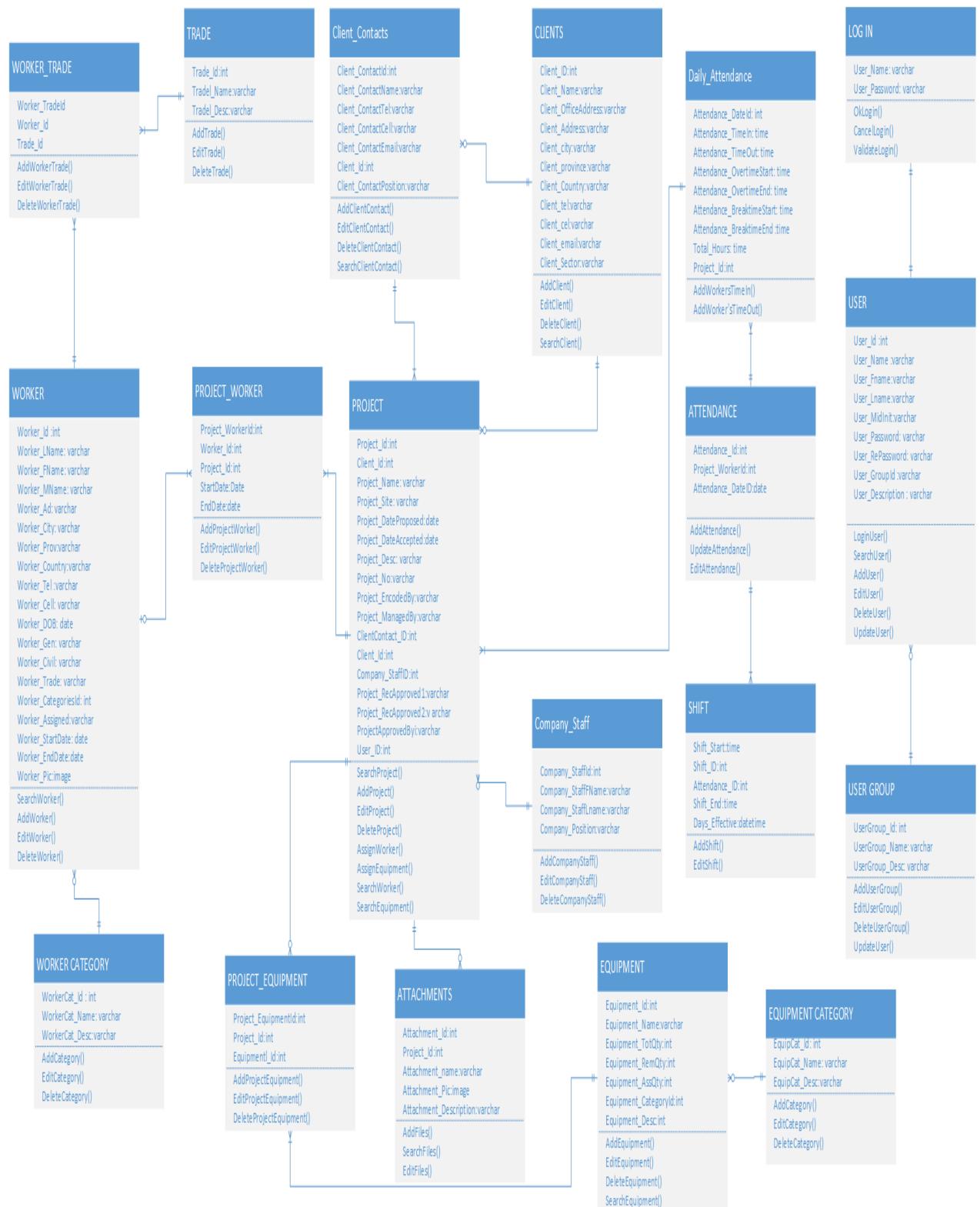
### 3.2.1 Domain Object Modelling

#### 3.2.1.1 Data Dictionary of Classes

Class	Description
<b>ATTACHMENT</b>	This contains all documents attached in a project
<b>PROJECTATTEND</b>	This contains the attendance of all projects
<b>CLIENT</b>	This contains the information about the client
<b>CLIENTSTAFF</b>	This contains the contact of the client in a project
<b>DAILYATTEND</b>	This contains the daily attendance in a project
<b>EQUIPMENT</b>	This contains the equipment information
<b>EQUIPCTGRY</b>	This contains the category of the equipment
<b>PROJECT</b>	This contains the project information
<b>PROJREQEQUIP</b>	This contains the assigned equipment in a project
<b>PROJECT_REQUIREMENTS</b>	This contains the constraints in a project
<b>ASSIGNEDWORKER</b>	This contains the assigned worker in a project
<b>TRADE</b>	This contains what a worker can do
<b>USER</b>	This contains the information about who uses the system
<b>WORKER</b>	This contains the worker information
<b>WORKER_CATEGORY</b>	This contains the category of a worker
<b>WORKERTRADE</b>	This contains the assigned skill of a worker

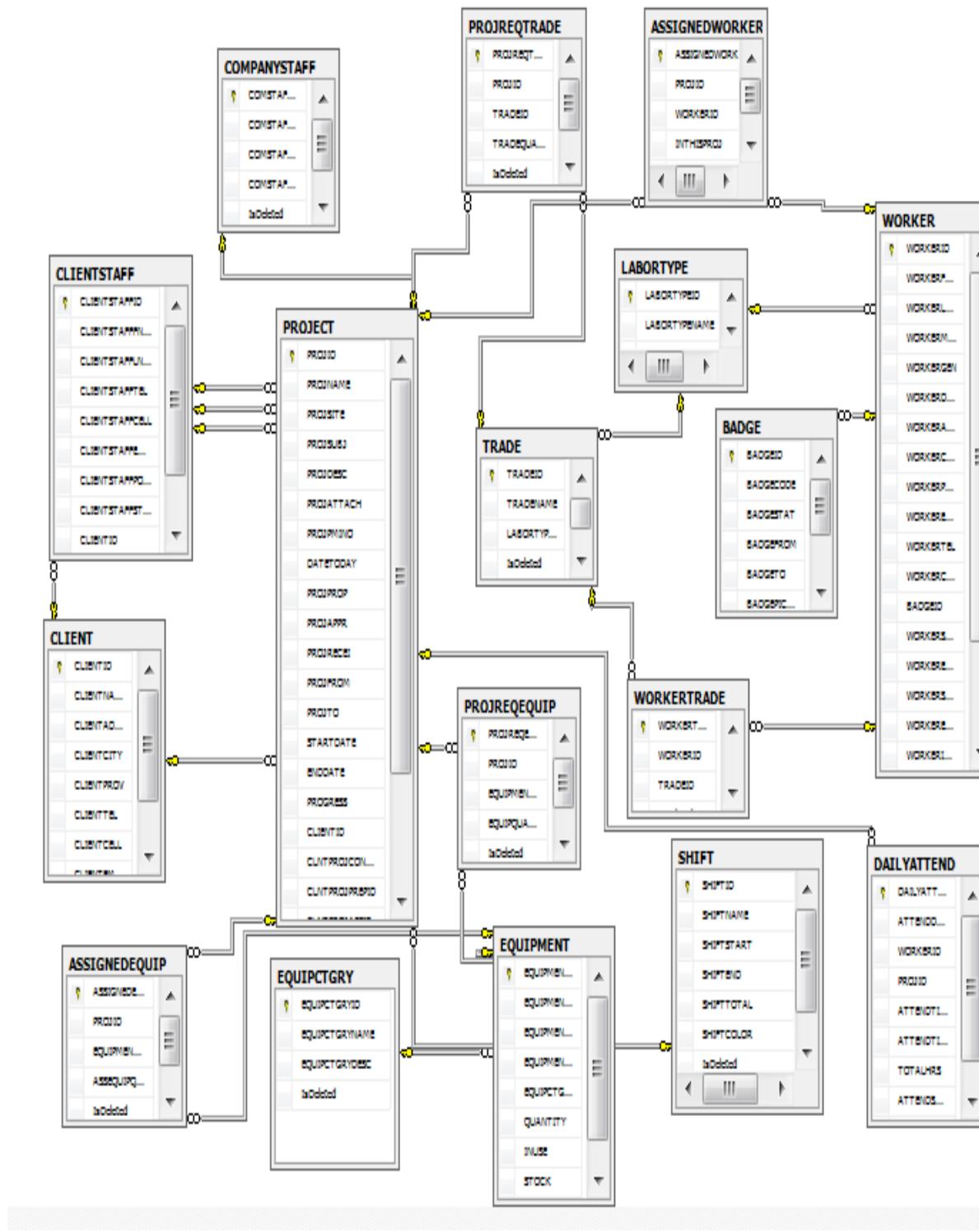
**Table 3.2.1 Data Dictionary of Classes**

### 3.2.1.2 Final Class Diagram



## 3.2.2 Database Design

### 3.2.2.1 Database Schema



### 3.2.2.2 Data Dictionary

<b>Table Name : CLIENT</b>				
<b>Table Description: Storage of the client's information</b>				
<b>Related Table:</b>				
ID	Column Name	Description	Data Type	Length
<b>PK</b>	CLIENTID	Identification of the client.	INT IDENTITY	1,1
	CLIENTNAME	Name of the client	VARCHAR	200
	CLIENTADDR	Address of the client	VARCHAR	300
	CLIENTCITY	City of the client	VARCHAR	100
	CLIENTPROV	Province of the client	VARCHAR	100
	CLIENTTEL	Residential phone of the client	VARCHAR	50
	CLIENTCELL	Mobile number used by client	VARCHAR	50
	CLIENTEMAIL	Email Address of the client	VARCHAR	100

Table 3.2.1 Client

**Table Name : CLIENTSTAFF****Table Description: Project's contact of the client****Related Table: CLIENT**

ID	Column Name	Description	Data Type	Length
<b>PK</b>	CLIENTSTAFFID	Identification of the client contact	INT IDENTITY	1,1
	CLIENTSTAFFNAME	First name of the client contact in a project	VARCHAR	200
	CLIENTSTAFFLNAME	Last name of the client contact in a project	VARCHAR	50
	CLIENTSTAFFTE	Residential phone number of the client contact	VARCHAR	50
	CLIENTSTAFFCELL	Mobile number of the client contact	VARCHAR	50
	CLIENTSTAFFEMAIL	Email Address of the client contact	VARCHAR	200
	CLIENTSTAFFPOSITION	Position of the client contact	VARCHAR	200
	CLIENTSTAFFSTATUS	Whether the client contact is active or inactive	VARCHAR	200
<b>Fk</b>	CLIENTID	Identification of the client contact	INT	20

Table 3.2.2 Client Staff

**Table Name : EQUIPCTGRY**

**Table Description: Category of the equipment**

**Related Table:**

ID	Column Name	Description	Data Type	Length
<b>PK</b>	EQUIPCTGRYID	Identification of the equipment's category	INT IDENTITY	1,1
	EQUIPCTGRYNAME	Category name of the equipment	VARCHAR	200
	EQUIPCTGRYDESC	Description of the equipment's category	VARCHAR	200

Table 3.2.3 Equipment Category

<b>Table Name : EQUIPMENT</b>				
<b>Table Description: Storage of the equipment information</b>				
<b>Related Table : EQUIPMENT_CATEGORY</b>				
<b>ID</b>	Column Name	Description	Data Type	Length
<b>PK</b>	EQUIPMENTID	Identification of the equipment	INT IDENTITY	1,1
	EQUIPCTGRYID	Identification of the equipment category	INT	
	EQUIPMENTNAME	Name of the equipment	VARCHAR	200
	EQUIPMENTDESC	Description of the equipment's category	VARCHAR	200
	QUANTITY	Total quantity of the equipment	VARCHAR	50
	STOCK	Remaining quantity of the equipment	VARCHAR	50
	INUSE	Quantity of equipment assigned	VARCHAR	50
<b>Fk</b>	EQUIPCTGRYID	Category of the equipment	INT	
	EQUIPMENTDESC	Description of the equipment	VARCHAR	300

Table 3.2.4 Equipment

<b>Table Name : PROJREQEQUI</b>	Table 3.2.5 Project Equipment							
<b>Table Description: Equipment assigned to a project</b>								
<b>Related Table: PROJECT, EQUIPMENT</b>								
ID	Column Name	Description	Data Type	Length				
<b>PK</b>	PROJREQEQUIID	Identification of project equipments	INT IDENTITY	1,1				
	EQUIPQUANTITY	Total quantity of the equipment in the project	VARCHAR	50				
<b>Fk</b>	PROJID	Identification of the project	INT					
<b>FK</b>	EQUIPMENTID	Identification of the equipment	INT					

**Table Name : PROJECTATTEND****Table Description:** Worker assigned to a project**Related Table:**

ID	Column Name	Description	Data Type	Length
<b>PK</b>	PROJECTATTENDID	Identification of the equipment's category	INT IDENTITY	1,1
	DAILYATTENDI	Category name of the equipment	INT	
	PROJID	Description of the equipment's category	INT	
	DAILYATTENDID	Identification of the equipment	INT	

Table 3.2.6 Project Attendance

**Table Name : PROJECT****Table Description: Storage of Project Information****Related Table: CLIENT, COMPANYSTAFF, USER,**

ID	Column Name	Description	Data Type	Length
<b>PK</b>	PROJID	Identification of the Project	INT IDENTITY	1,1
	PROJNAME	Name of the Project	VARCHAR	200
	PROJSITE	Location of the Project	VARCHAR	300
	PROJSUBJ	Subject of the project	VARCHAR	200
	PROJDESC	Description of the project	VARCHAR	500
	PROJATTACH	Attachment file for the project	VARCHAR	300
	PROJPMINO	Project PMI number	VARCHAR	200
	DATETODAY	Date today	DATE	
	PROJPROP	Date when the project was proposed	DATE	10
	PROJAPPR	Date when the project was approved	DATE	10
	PROJRECEI	Project Received	DATE	
	PROJFROM	Project from	DATE	
	PROJTO	Project to	DATE	
	STARTDATE	Date Started	DATE	
	ENDDATE	Date Ended	DATE	

	PROGRESS	Progress of the project	VARCHAR	100
<b>Fk</b>	CLIENTID	Identification of the client	INT	
<b>Fk</b>	CLNTPROJCONTID	Identification of the client project	INT	
<b>Fk</b>	CLNTPROJPREPID	Identification of client project prepared	INT	
<b>Fk</b>	CLNTPROJAPPID	Identification of Client project Approved	INT	
<b>Fk</b>	CNTRCTRPROJRECEIID	Identification of contractor project Received	INT	
<b>Fk</b>	CNTRCTRPROJAPPID	Identification of contractor project Approved	INT	

Table 3.2.7 Project

<b>Table Name : PROJREQTRADE</b>				
<b>Table Description: Project Required Trade</b>				
<b>Related Table:</b>				
ID	Column Name	Description	Data Type	Length
<b>PK</b>	PROJREQTRADEID	Identification of the project required tradetrade	INT IDENTITY	1,1
<b>Fk</b>	PROJID	Identification of the project	INT	
<b>Fk</b>	TRADEID	Identificaton of trade	INT	
	TRADEQUANTITY	Trade quantity	VARCHAR	50

Table 3.2.8 Project Trade

**Table Name : PROJREQEQUIP**

**Table Description: Project Required Equipment**

**Related Table:**

ID	Column Name	Description	Data Type	Length
<b>PK</b>	PROJREQEQUIPID	Identification of project required Equipment	INT IDENTITY	1,1
<b>Fk</b>	PROJID	Identification of the project	INT	
<b>Fk</b>	EQUIPMENTID	Identification of equipment	INT	
	EQUIPQUANTITY	Equipment Quantity	VARCHAR	50

Table 3.2.9 Project Equipment

**Table Name : WORKER****Table Description:** Storage of worker details**Related Table:** WORKER\_CATEGORY, WORKER\_TRADE

ID	Column Name	Description	Data Type	Length
<b>Pk</b>	WORKERID	Identification of the worker	INT IDENTITY	1,1
	WORKERFNAME	Worker's First name	VARCHAR	200
	WORKERLNAME	Worker's Last name	VARCHAR	200
	WORKERMIDNAME	Worker's Middle name	VARCHAR	200
	WORKERGEN	Worker's Gender	VARCHAR	50
	WORKERDOB	Worker's date of birth	DATE	
	WORKERADDR	Worker's Address	VARCHAR	200
	WORKERCITY	Worker's City	VARCHAR	200
	WORKERPROV	Worker's Province	VARCHAR	200
	WORKEREMAIL	Worker's Email	VARCHAR	200
	WORKERTEL	Residential phone number of the worker	VARCHAR	50
	WORKERCELL	Cellphone Number of the worker	VARCHAR	50
	BADGEID	Worker's Badge No.	INT	
	WORKERSTARTDATE	Worker's Date Started	DATE	
	WORKERENDDATE	Worker's Date Ended	DATE	
	WORKERSTATUS	Status of the Worker	VARCHAR	200
	WORKEREMPLOYTYPE	Worker's Employee Type	VARCHAR	200

	WORKERIMAGE	Image of the worker	VARCHAR	300
	ASSWORKER	Worker's Assign	BIT	
<b>Fk</b>	LABORTYPEID	Worker's LabortypeID	INT	

**Table Name : Worker Trade**

**Table Description: Trade of the Worker**

**Related Table:**

ID	Column Name	Description	Data Type	Length
<b>PK</b>	WORKERTRADEID	Table 3.2.10 Worker Identification of the worker trade	INT IDENTITY	1,1
<b>Fk</b>	WORKERID	Identification of worker	INT	
<b>Fk</b>	TRADEID	Trade identification	INT	

Table 3.2.11 Worker Trade

<b>Table Name : ASSIGNEDWORKER</b>				
<b>Table Description:</b> Worker assigned to a project				
<b>Related Table:</b>				
ID	Column Name	Description	Data Type	Length
<b>PK</b>	ASSIGNEDWORKERID	Identification of the equipment's category	INT IDENTITY	1,1
	PROJID	Category name of the equipment	INT	
	WORKERID	Description of the equipment's category	INT	
	INTHISPROJ	Whether the worker is active or inactive	BIT	
<b>Fk</b>	PROJID	Category name of the equipment	INT	
	EQUIPMENTID	Identification of the equipment	INT	

Table 3.2.12 Assigned Worker

<b>Table Name : ASSIGNEDEQUIP</b>				
<b>Table Description: Project Required Trade</b>				
<b>Related Table:</b>				
ID	Column Name	Description	Data Type	Length
<b>PK</b>	ASSIGNEDEQUIPID	Identification of Assign Equipment	INT IDENTITY	1,1
<b>Fk</b>	PROJID	Identification of the project	INT	
<b>Fk</b>	EQUIPMENTID	Identification of equipment	INT	
	ASSEQUIPQUANT	Assign Equipment Quantity	VARCHAR	50

Table 3.2.13 Assigned Equipment

<b>Table Name : SHIFT</b>				
<b>Table Description:</b>				
<b>Related Table:</b>				
<b>ID</b>	Column Name	Description	Data Type	Length
<b>PK</b>	SHIFTID	Identification of Shift	INT IDENTITY	1,1
	SHIFTNAME	Name of Shift	VARCHAR	200
	SHIFTSTART	Start of Shift	DATETIME	
	SHIFTEND	End of Shift	DATETIME	
	SHIFTTOTAL	Total Of Shift	VARCHAR	200
	SHIFTCOLOR	Color of the Shift	VARCHAR	200

Table 3.2.14 Shift

<b>Table Name : Badge</b>				
<b>Table Description: Badge Number of the Worker</b>				
<b>Related Table:</b>				
ID	Column Name	Description	Data Type	Length
<b>PK</b>	BADGEID	Badge Id	INT IDENTITY	1,1
	BADGECODE	Badge Code	VARCHAR	200
	BADGESTAT	Badge Status	VARCHAR	200
	BADGEFROM	Badge From	DATE	
	BADGETO	Badge To	DATE	
	BADGEPICCODE	Badge Picture Code	VARCHAR	300
<b>Fk</b>	WORKERID	Identification of the Worker	INT	

Table 3.2.15 Badge

<b>Table Name : DAILYATTEND</b>				
<b>Table Description: Daily Attendance</b>				
<b>Related Table:</b>				
ID	Column Name	Description	Data Type	Length
<b>PK</b>	DAILYATTENDID	Identification of daily Attendance	INT IDENTITY	1,1
	ATTENDDDATE	Date of attendance	DATE	
	WORKERID	Identification of the worker	INT	
	PROJID	Identification of project	INT	
	ATTENDTIMEIN	Attendance Time-In	DATETIME	
	ATTENDTIMEOUT	Attendance Time-Out	DATETIME	
	TOTALHRS	Total Hours	VARCHAR	20

Table 3.2.16 Daily Attendance

**Table Name : Trade**

**Table Description: Skills or trade of worker**

**Related Table:**

ID	Column Name	Description	Data Type	Length
<b>PK</b>	TRADEID	Identification of the Trade	INT IDENTITY	1,1
	TRADENAME	Name of the trade	VARCHAR	200
<b>Fk</b>	LABORTYPEID	Identification of the type of labor	INT	

Table 3.2.17 Trade

### 3.2.3 Screen Design

#### 3.2.3.1 Screen Inventory

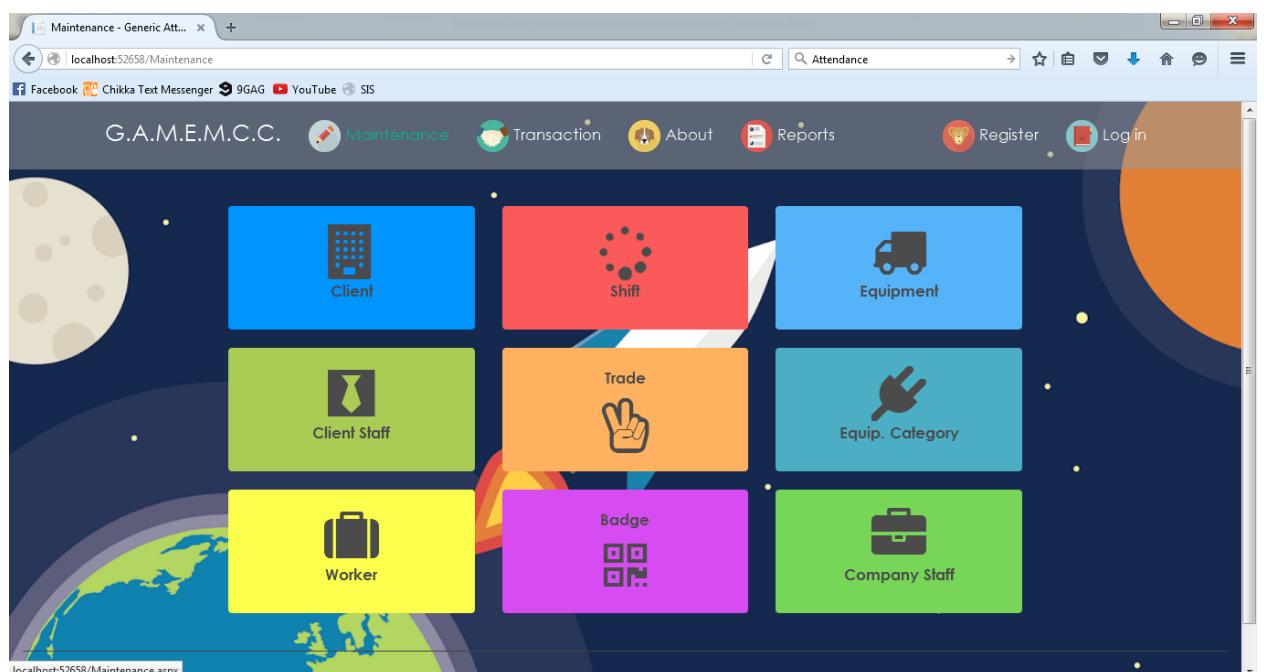
#	Name	Description
1	Log-in Form	Allow the user to log-in and access the system
2	Dashboard Form	The home page and the main interface of the system.
3	Worker Form	Allows the user to manage workers information in the system.
4	Equipment Form	Allows the user to manage the equipment information in the system
5	Project Form	Allows the user to manage a project that has been entered in the system
6	Attendance Form	This allows the user to manage the attendance file generated by the system.
7	Client Form	Allows the user to add, delete and modify the client information
8	Maintenance Form	Allows the user to add, edit and delete of records in maintenance.

Table 3.2.2 Screen Inventory

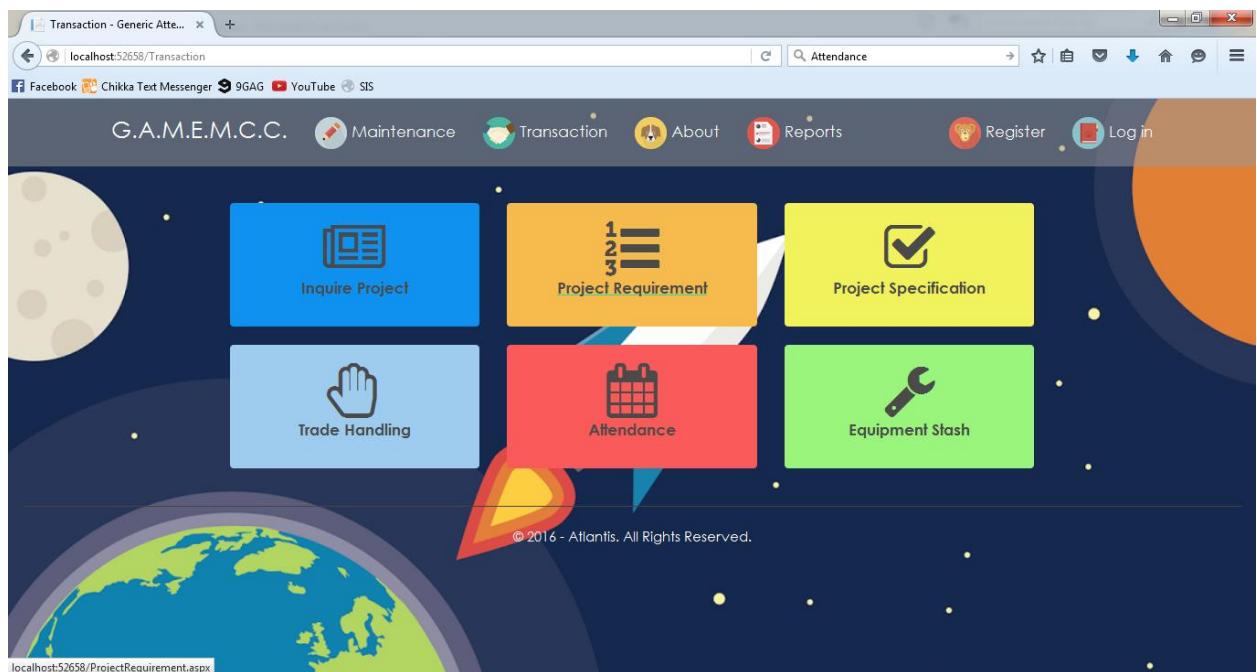
### 3.2.3.2 Screen Layout



Home Page



Maintenance



## Transaction

ID	Company/ Business Name	Address	Company/ Business Cellphone	Company/ Business Telephone	
1	Hewlett Packard	5251 EDSA	0318415451	155158	
2	5 SOS	Perth	55466446	12164	
3	Marvel Studios	New York	6756575577	09827651	

## Client List

Client - Generic Attendance Monitoring and Equipment Management for Construction Company

localhost:52658/Client\_CRUD

Attendance

Maintenance Transaction About Reports Register Log in

Add Client

Company / Business Name:

Address: City: Province:

Company / Business Telephone: Company / Business Cellphone: Company / Business Email:

Save Cancel

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### Add Client

Shift - Generic Attendance Monitoring and Equipment Management for Construction Company

localhost:52658/Shift

Attendance

Maintenance Transaction About Reports Register Log in

Shift Table

ID	Shift Name	Shift Start Time	Shift End Time	Total Hours	Shift Color Code
1	Day	7:00 AM	3:00 PM	8	<div style="width: 100px; height: 10px; background-color: red;"></div>
2	Swing	3:00 PM	11:00 PM	8	<div style="width: 100px; height: 10px; background-color: green;"></div>
3	Night	11:00 PM	7:00 AM	8	<div style="width: 100px; height: 10px; background-color: blue;"></div>

### Shift Table

The screenshot shows a web-based application for managing shifts. On the left, there is a form titled "Add Shift" with fields for "Shift Name", "Shift Start Time", "Shift End Time", "Total-Hours", and "Shift Color Code". Below the form are "Save" and "Cancel" buttons. On the right, there is a list of shifts with details like ID, Shift Name, Shift Start Time, Shift End Time, Total-Hours, and Shift Color Code. Each shift entry includes "Edit" and "Delete" buttons. The background features a space-themed illustration with a rocket ship.

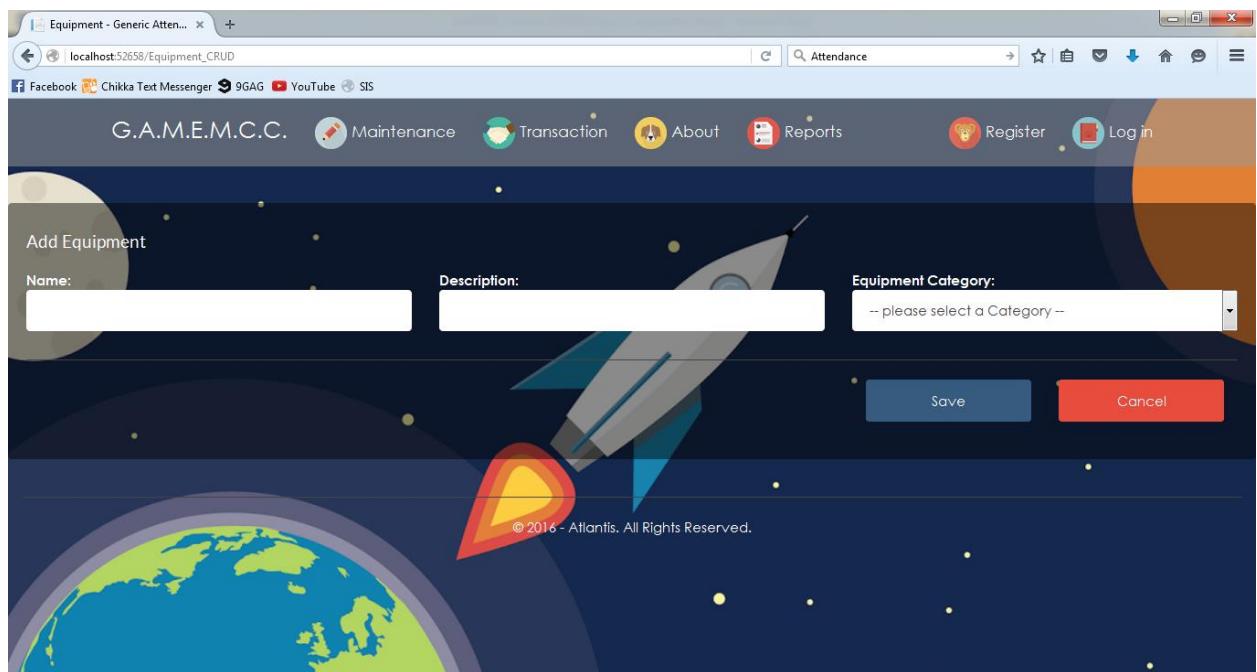
ID	Shift Name	Shift Start Time	Shift End Time	Total-Hours	Shift Color Code
1	Day	7:00 AM	3:00 PM	-4	
2	Swing	3:00 PM	11:00 PM	8	
3	Night	11:00 PM	7:00 AM	-16	

### Add Shift

The screenshot shows a web-based application for managing equipment. At the top, there is a search bar and a button labeled "+ Add". Below the search bar, there is a table titled "Equipment List" with columns for "ID", "Equipment Name", and "Description". The table contains five rows of data. To the right of each row is a red trash can icon for deletion. The background features a space-themed illustration with a rocket ship.

ID	Equipment Name	Description
1	Cellphone	
2	Telephone	
3	Electrical Drills	
4	Tile Cutter	
5	Hammer	

### Equipment List



### Add Equipment

The screenshot shows a web application window titled 'Client Staff - Generic Atten...'. The URL is 'localhost:52658/ClientStaff'. The page has a dark blue header with the text 'G.A.M.E.M.C.C.' and navigation links: Maintenance, Transaction, About, Reports, Register, and Log in. Below the header is a decorative background featuring a rocket launching from Earth into space. A table titled 'Client Staff List' is displayed, showing a list of staff members with columns for ID, First Name, Last Name, Telephone, Cellphone, Status, and Company / Business. Each row contains a red trash can icon for deletion. The table data is as follows:

ID	First Name	Last Name	Telephone	Cellphone	Status	Company / Business
1	Taylor	Swift	77-4449-1	091578464979	Active	Hewlett Packard
2	Adam	Levine	121212	121212	Active	Hewlett Packard
3	Tove	Lo	32323223	320320909	Active	Hewlett Packard
4	Luke	Hemmings	487877	4654645	Active	5 SOS
5	Calum	Hood	6544546654656	65464654984654	Active	5 SOS
6	Ashton	Irwin	654665456	465466546546	Active	5 SOS

### Client Staff List

Client Staff - Generic Atten... X

localhost:52658/ClientStaff\_CRUD

[Facebook](#) [Chikka Text Messenger](#) [9GAG](#) [YouTube](#) [SIS](#)

G.A.M.E.M.C.C. [Maintenance](#) [Transaction](#) [About](#) [Reports](#) [Register](#) [Log in](#)

Add Client Staff

First Name:	Last Name:
Telephone:	Cellphone:
Position:	Status:
-- please select Status --	
Company Business Name:	
-- please select a Company --	

Save Cancel

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### Add Client Staff

Trade - Generic Attendance... X

localhost:52658/Trade

[Facebook](#) [Chikka Text Messenger](#) [9GAG](#) [YouTube](#) [SIS](#)

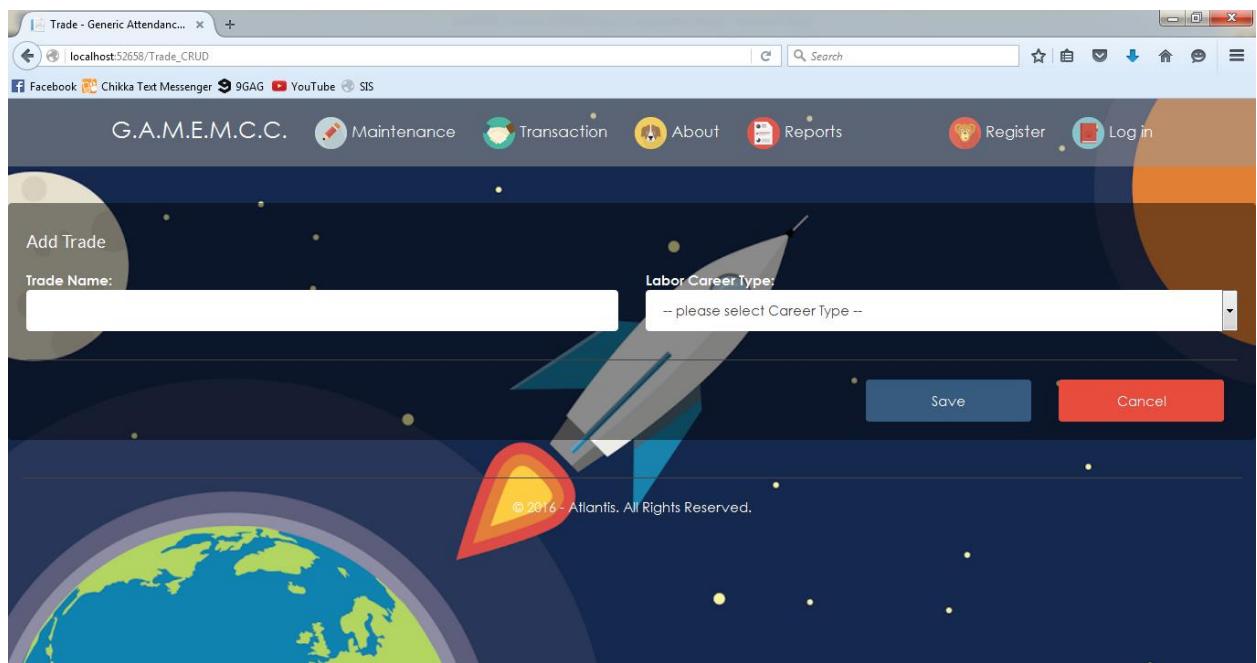
G.A.M.E.M.C.C. [Maintenance](#) [Transaction](#) [About](#) [Reports](#) [Register](#) [Log in](#)

Trade List

ID	Trade	Labor Career Type	Action
1	Civil Engineer	Professional	<span style="color: red; border: 1px solid red; border-radius: 50%; padding: 2px;">Delete</span>
2	Mechanical Engineer	Professional	<span style="color: red; border: 1px solid red; border-radius: 50%; padding: 2px;">Delete</span>
3	Mason	Skilled/Tradesman	<span style="color: red; border: 1px solid red; border-radius: 50%; padding: 2px;">Delete</span>
4	Carpenter	Unskilled/Laborer	<span style="color: red; border: 1px solid red; border-radius: 50%; padding: 2px;">Delete</span>
5	Foreman	Skilled/Tradesman	<span style="color: red; border: 1px solid red; border-radius: 50%; padding: 2px;">Delete</span>

First Previous 1 Next Last

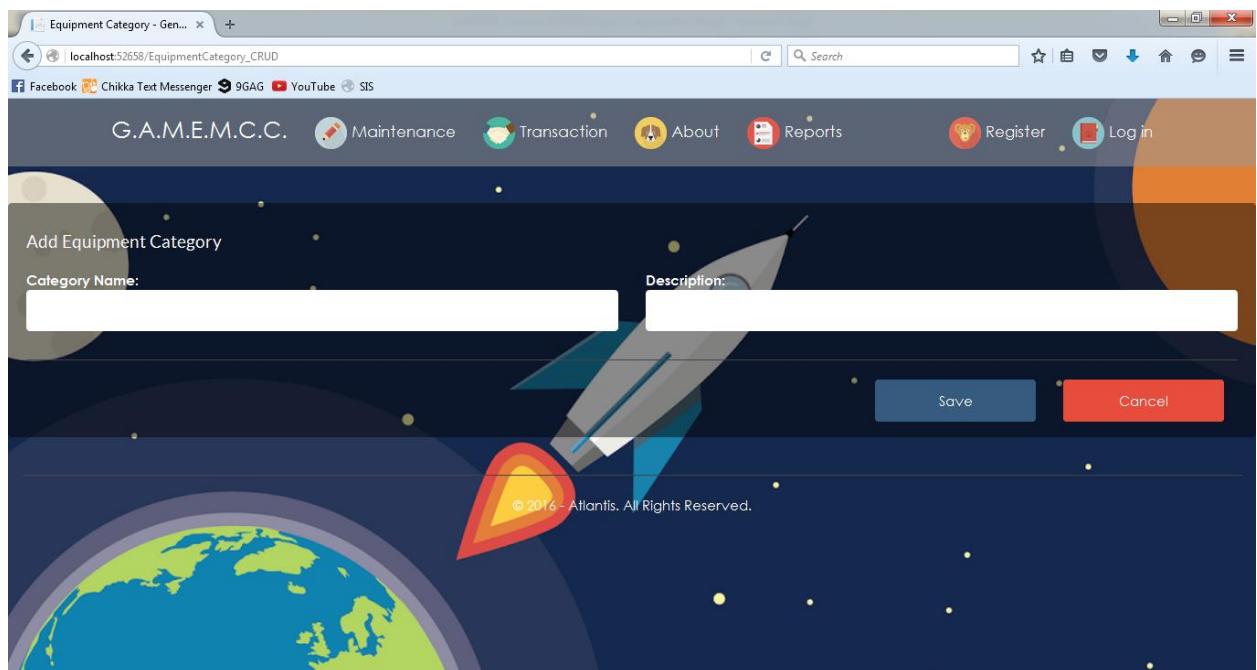
### Trade List



### Add Trade

ID	Category Name	Description
1	Handheld	
2	Electrical	

### Equipment Category List



## Add Equipment Category

The screenshot shows a web application window titled 'Worker - Generic Attendance...'. The URL in the address bar is 'localhost:52658/Worker'. The page has a dark blue header with the text 'G.A.M.E.M.C.C.' and navigation links: Maintenance, Transaction, About, Reports, Register, and Log in. The main content area is titled 'Worker List' and features a search bar with a 'Search' button and a '+ Add' button. Below the search bar is a table with data. The table has a blue header row with columns labeled: ID, First Name, Last Name, Birthdate, Address, Employment Status, Employment Type, Labor Career Type, and Is Assigned. There are three rows of data:

ID	First Name	Last Name	Birthdate	Address	Employment Status	Employment Type	Labor Career Type	Is Assigned
1	Steve	Rogers	01/21/1998	New York	Active	Regular	Professional	<input checked="" type="checkbox"/>
2	Anthony	Stark	02/04/1998	Malibu	Active	Regular	Skilled/Tradesman	<input type="checkbox"/>
3	Thor	Odinson	02/24/1998	Yggdrassil	Active	Regular	Unskilled/Laborer	<input type="checkbox"/>

## Worker List

Worker - Generic Attendant...

localhost:52658/Worker\_CRUD

Facebook Chikka Text Messenger 9GAG YouTube SIS

G.A.M.E.M.C.C. Maintenance Transaction About Reports Register Log in

### Add Worker

**Personal Details**

Add Image:  No file selected.

First Name:

Last Name:

Middle Name:

Gender:

Birthdate:

**Complete Address**

Address:

City:

Province:

**Contact Information**

### Add Worker

Badge - Generic Attendant...

localhost:52658/Badge

Facebook Chikka Text Messenger 9GAG YouTube SIS

G.A.M.E.M.C.C. Maintenance Transaction About Reports Register Log in

Steve Rogers  
Not Available

Birthdate: January 21, 1998  
Address: New York  
Badge Code: 00001STEVE01211998  
Valid From: February 08, 2016  
Valid To: February 08, 2016  
Badge Status: Available  
QR Code:

Anthony Stark  
Not Available

Birthdate: February 04, 1998  
Address: Malibu  
Badge Code: 00002ANTH02041998  
Valid From: February 25, 2016  
Valid To: February 29, 2016  
Badge Status: Available  
QR Code:

Thor Odinson  
Available

Birthdate: February 24, 1998  
Address: Yggdrasil  
Badge Code: 00003THOR02241998  
Valid From: February 19, 2016  
Valid To: February 27, 2016  
Badge Status: Available  
QR Code:

### Badges

Not Available

**Worker Details**

Worker ID:

Worker Name:

**Badge Details**

From:

To:

Badge Code:

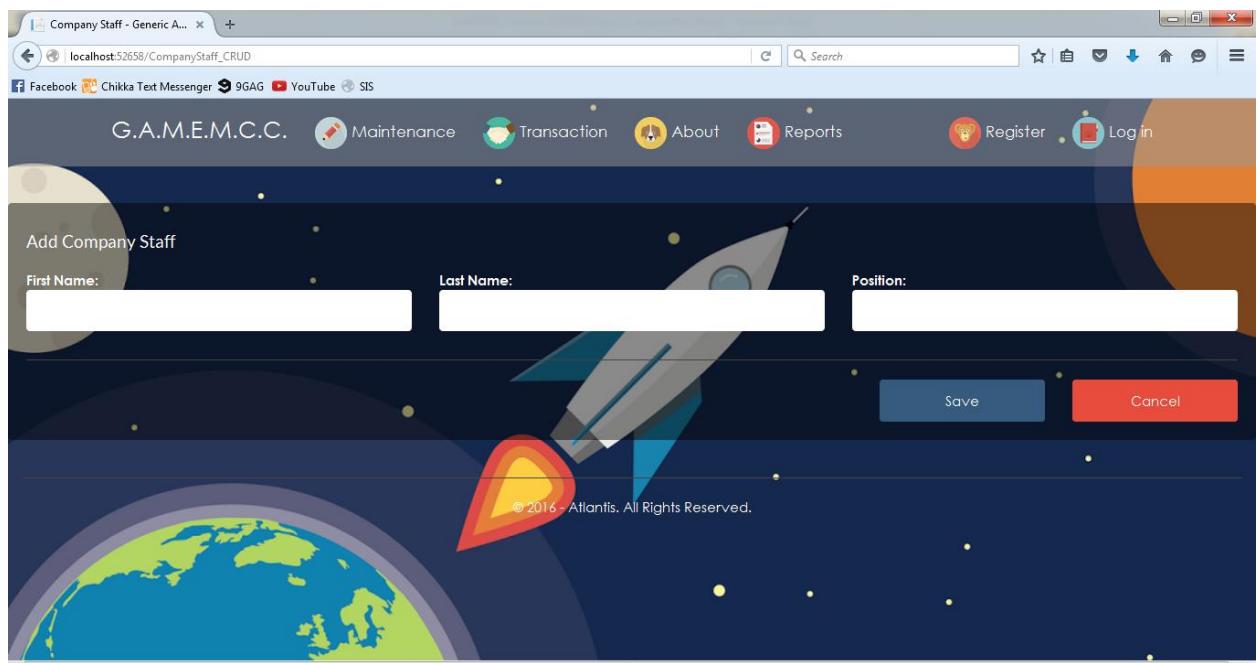
Badge Status: Available

### Add Badge

Company Staff List

ID	First Name	Last Name	Position
1	Carlson	Cruz	Programmer
2	Jan Marc	Pascual	P.M.
3	Kim Denzell	Varde	Designer
4	Rosary	Reves	DB Analyst
5	Christopher	Anapi	Tech. Writer

### Company Staff List



### Add Company Staff

ID	Project Name	Site	Client/Company/Business Name	Action
1	Roof Repair	#20 Howmart Road	Hewlett Packard	
2	Door Replace	10th Floor CJC Building 20 Howmart Road	Hewlett Packard	
3	Studio Repair	Hey or Hi Records Building 1	5 SOS	

### Project List

Inquire a Project - Generic ...

localhost:52658/Project\_CRUD

Facebook Chikka Text Messenger 9GAG YouTube SIS

G.A.M.E.M.C.C. Maintenance Transaction About Reports Register Log in

### Add Project

**Client Information**

Company/Business Name:

Date Proposed:

Contact Person:

Prepared by:

Approved by:

**Project Information**

Project name:

Date: 03/03/2016

Project Site:

**Add Project**

Project Requirement - Generic ...

localhost:52658/ProjectRequirement

Facebook Chikka Text Messenger 9GAG YouTube SIS

G.A.M.E.M.C.C. Maintenance Transaction Requirements List Reports Register Log in

ID: 1  
Hewlett Packard, Roof Repair

Project Site/ Address: #20 Howmart Road

Date Approved: February 08, 2016

Attachments: uploadfiles/Untitled.rar Download File

Worker Trade Needed

- 3 - Civil Engineer
- 1 - Mechanical Engineer

Total Worker Needed: 4

Equipment Needed

- 1 - Cellphone
- 1 - Telephone
- 1 - Tile Cutter

Total Equipment Needed: 3

Edit Project Edit Requirements

**Project Requirement List**

Project Requirement - Gen... X

localhost:52658/ProjectRequirement\_CRUD

Facebook Chikka Text Messenger 9GAG YouTube SIS

G.A.M.E.M.C.C. Maintenance Transaction About Reports Register Log in

Project Requirements

Select a Project

**Project name:** -- please select a Project --

**Project Information:**

- Project Site: [Text Input]
- Approved by: [Text Input]
- PMI No.: [Text Input]
- Date Approved: [Text Input]

**Contractor Information:**

**Cancel** **Next**

### Add Project Requirements

Project Specification - Gen... X

localhost:52658/ProjectSpecification

Facebook Chikka Text Messenger 9GAG YouTube SIS

G.A.M.E.M.C.C. Maintenance Transaction About Reports Register Log in

Project Assigments List

ID: 1  
**Hewlett Packard - Roof Repair**

**Project Site/ Address:** #20 Howmart Road

**Duration-From:** February 08, 2016

**Duration-To:** February 24, 2016

**Started:**

**Ended:**

**Status:** On Going

**Assigned Equipment:**

- 4 - Cellphone
- 2 - Telephone
- 1 - Electrical Drills
- 3 - Tile Cutter

Total Equipment Assigned: 10

**Assigned Worker:**

- Rogers, Steve

Total Worker Assigned: 1

**Edit** **Edit Worker/ Equipment**

### Project Assignment List

Project Specification - Gen... X

localhost:52658/ProjectSpecification\_CRUD

Facebook Chikka Text Messenger 9GAG YouTube SIS

G.A.M.E.M.C.C. Maintenance Transaction About Reports Register Log in

Project Specification

Select a Project

**Project name:**  
-- please select a Project --

**Project Requirements**

Worker Needed      Equipment Needed

Total Worker: 0      Total Equipment: 0

**Project Details**

Project Information

Project Site: PMI No.: Contractor Information

Approved by: Date Approved:

**Project Specification**

Trade Handling - Generic ... X

localhost:52658/TradeHandling

Facebook Chikka Text Messenger 9GAG YouTube SIS

G.A.M.E.M.C.C. Maintenance Workers List Trades Reports Register Log in

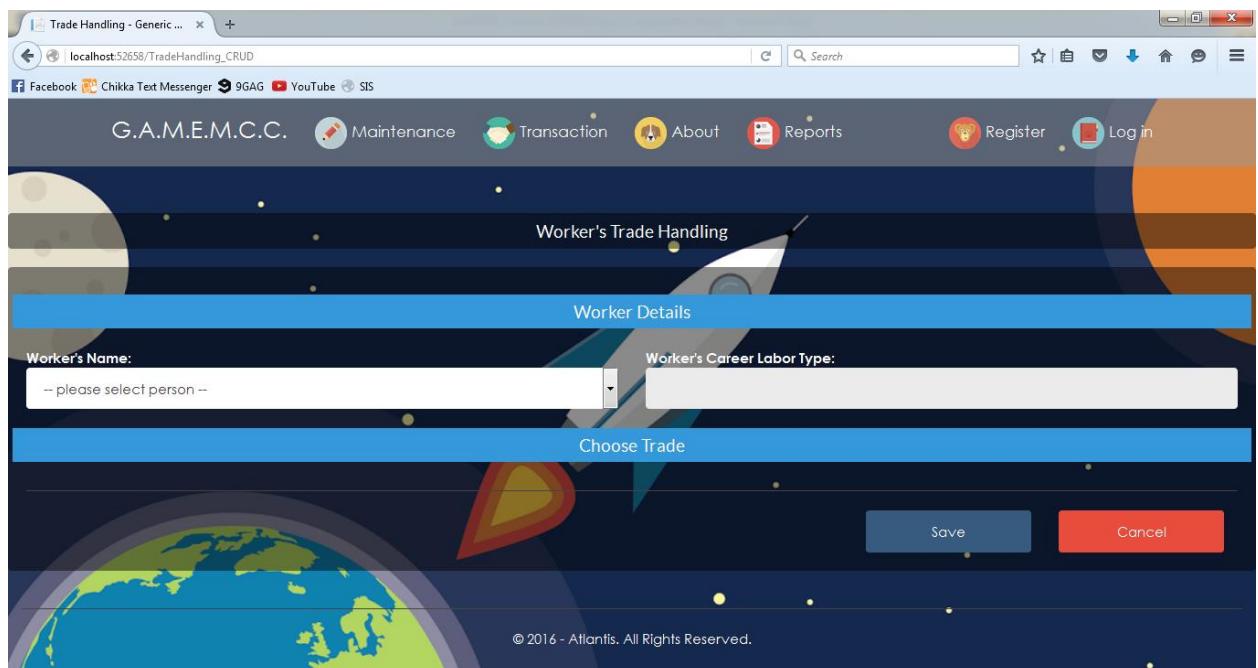
**Workers List**

**+ Add**

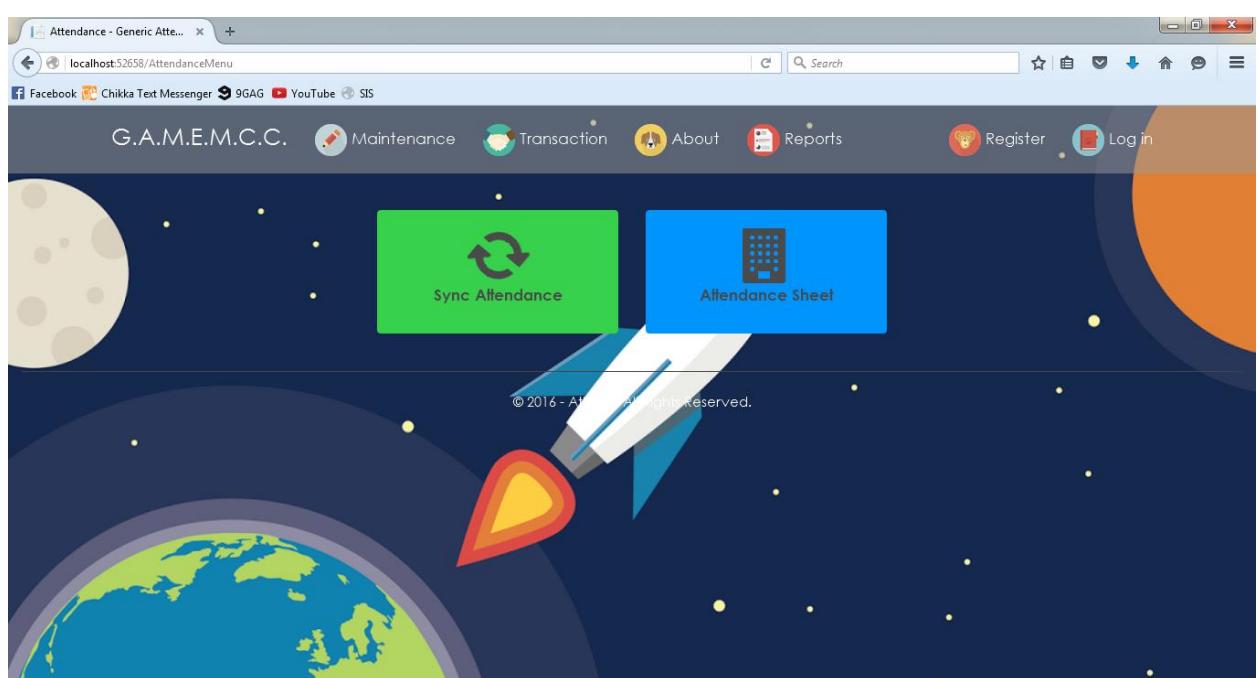
ID	Worker Name	Labor Career type	Trade List
1	Steve Rogers	Professional	Civil Engineer
2	Anthony Stark	Skilled/Tradesman	No Trades listed
3	Thor Odinson	Unskilled/Laborer	No Trades listed

localhost:52658/EquipmentStash.aspx

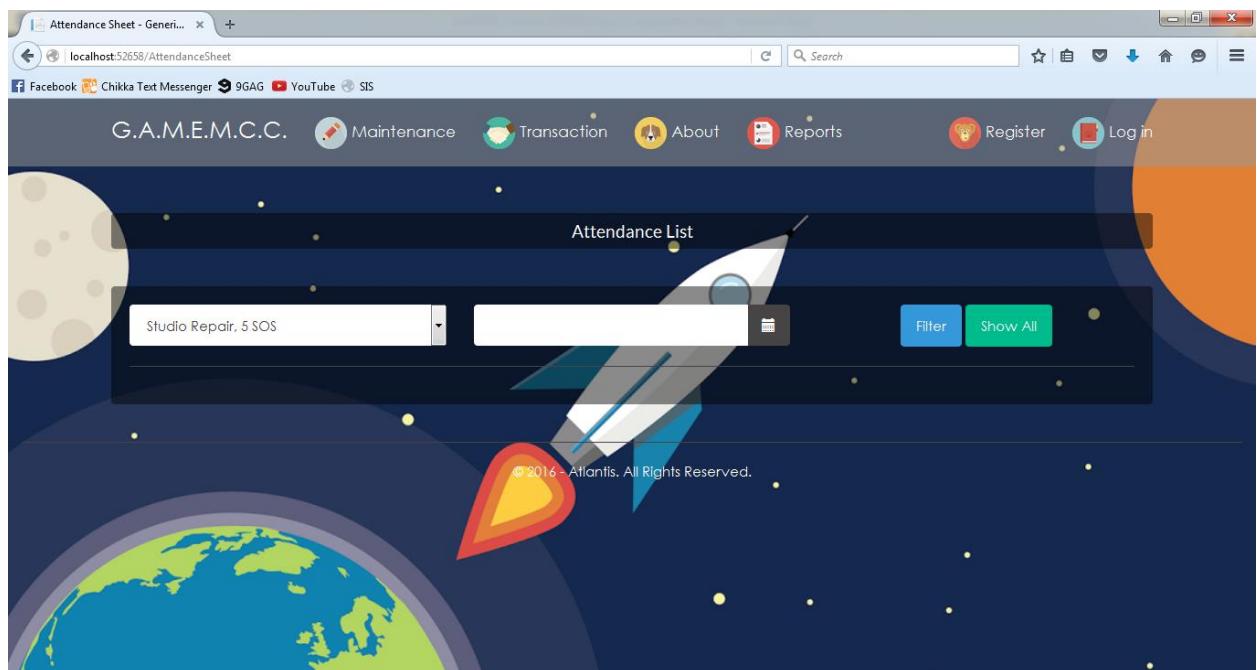
**Worker List with Trades**



## Worker's Trade Handling



## Attendance Menu



## Attendance List

The screenshot shows a web-based application titled "Equipment Stash - Generic...". The URL in the address bar is "localhost:52658/EquipmentStash". The top navigation bar includes links for Maintenance, Transaction, About, Reports, Register, and Log in. The main content area has a dark blue space-themed background featuring a rocket ship, Earth, and the Sun. A search bar at the top contains the text "Q Search". Below the search bar are buttons for "+ Add New Equipment" and "Equipment with Projects". A table lists equipment items with columns for ID, Equipment Name, Total, On Project, and On Stock. The table includes a set of five blue plus icons on the right side. Navigation buttons at the bottom include "First", "Previous", "1", "Next", and "Last".

ID	Equipment Name	Total	On Project	On Stock
1	Cellphone	25	4	21
2	Telephone	4	2	2
3	Electrical Drills	50	1	49
4	Tile Cutter	5	3	2
5	Hammer	20	0	20

## Equipment Stash

Equipment on Project - Ge... X +

localhost:52658/EquipmentProject

Facebook Chikka Text Messenger 9GAG YouTube SIS

G.A.M.E.M.C.C. Maintenance Transaction About Reports Register Log in

Project List

• 4 - Hewlett Packard - Roof Repair

Cellphone

Total Stock: 25  
Remaining Stock: 21  
On Project: 4

QR code

Project List

• 2 - Hewlett Packard - Roof Repair

Telephone

Total Stock: 4

QR code

## Equipment in Project

About - Generic Attendance X +

localhost:52658/About

Facebook Chikka Text Messenger 9GAG YouTube SIS

G.A.M.E.M.C.C. Maintenance Transaction About Contact Reports Register Log in

Asset Management.

A construction company delivers construction projects and services that meet the local and international standard. They keep their track on their employees performing a specific job on a site they were assigned. Most company currently uses manual forms as a way of transaction. They maintain their inventory on logbook for tracking and monitoring purposes.

ATTENDANCE MATTERS

Attendance Monitoring.

This system handles most of the recording tasks, therefore reduces the effort and increases the efficiency of the person who manages the company's staff attendance..

QR code

## About

**Jan Marc A. Pascual**

**Address No:** Lot 10 Blk 16 Dollar St. Greenpark Cainta Village Cainta, Rizal

**Contact No:** 09253673648

**Email address:** janmarcpascual@gmail.com

---

**Skills**

- Knowledge at Microsoft Office: 2007, 2010, 2013
  - Knowledgeable in Technical Writing
  - Proficient in programming languages such as Visual Basic .NET.
  - Advance knowledge and editing skills in Adobe Photoshop, and Flash
  - Knowledgeable in CISCO Packet Tracer
  - Advance knowledge on website development: HTML, CSS, Bootstrap, JavaScript and ASP.NET
  - Knowledgeable on Database Administration Tools: SQL Server and Microsoft Access
  - Computer Assembling and Maintenance
  - Troubleshooting of hardware and software problems
  - Installing and configuring peripherals, components and drivers
  - Installing software and application to user standards
- 

**Personal Information:**

**Height:** 5'6 ft.

**Weight:** 65 kg

**Sex:** Male

**Date of Birth:** February 10, 1996

**Civil Status:** Single

**Nationality:** Filipino

**Religion:** Roman Catholic

---

**EDUCATIONAL BACKGROUND**

**PRIMARY:** Lightbearer Christian Academy (2002-2008)

**SECONDARY:** National College of Business and Arts (2008-2012)

**TERTIARY:** Polytechnic University of the Philippines (2012-Present)

---

**Trainings and Seminars**

- CCIS @29: THE JOURNEY TO SUCCESS 2015- PUP MANILA
    - Discussed the topic UX Design and Web Trends
  - 3rd UNIVERSITY – WIDE IT RESEARCH FORUM 2015 IN PUP MANILA
    - The forum discussed different methods in researching and introduced different researches in the field of Information Technology.
-

**Christopher G. Anapi**

**Address No:** 09 Banag Balucuc, Apalit, Pampanga

**Contact No:** 09068784737

**Email address:** anaps.chris@gmail.com

---

### **Skills**

- Knowledge at Microsoft Office: 2007, 2010, 2013
  - Knowledgeable in Technical Writing
  - Proficient in programming languages such as Visual Basic .NET.
  - Advance knowledge and editing skills in Adobe Photoshop, and Flash
  - Knowledgeable in CISCO Packet Tracer
  - Knowledgeable on Database Administration Tools: SQL Server and Microsoft Access
  - Computer Assembling and Maintenance
  - Troubleshooting of hardware and software problems
  - Installing and configuring peripherals, components and drivers
  - Installing software and application to user standards
- 

### **Personal Information:**

**Height:** 5'7 ft.

**Weight:** 65 kg

**Sex:** Male

**Date of Birth:** April 3, 1996

**Civil Status:** Single

**Nationality:** Filipino

**Religion:** Roman Catholic

---

### **EDUCATIONAL BACKGROUND**

**PRIMARY:** Banag Elementary School (2002-2008)

**SECONDARY:** Balucuc High School (2008-2012)

**TERTIARY:** Polytechnic University of the Philippines (2012-Present)

---

### **Trainings and Seminars**

- CCIS @29: THE JOURNEY TO SUCCESS 2015- PUP MANILA
    - Discussed the topic UX Design and Web Trends
  - 3rd UNIVERSITY – WIDE IT RESEARCH FORUM 2015 IN PUP MANILA
    - The forum discussed different methods in researching and introduced different researches in the field of Information Technology.
-

**Kim Denzel Varde**

**Address No:** 179 Zanboanga St. Bagong Barrio Caloocan City

**Contact No:** 09159735915

**Email address:** kdenzellvarde@yahoo.com

---

**Skills**

- Knowledge at Microsoft Office: 2007, 2010, 2013
- Knowledgeable in Technical Writing
- Proficient in programming languages such as Visual Basic .NET.
- Advance knowledge and editing skills in Adobe Photoshop, and Flash
- Knowledgeable in CISCO Packet Tracer
- Knowledgeable on Database Administration Tools: SQL Server and Microsoft Access
- Computer Assembling and Maintenance
- Troubleshooting of hardware and software problems
- Installing and configuring peripherals, components and drivers
- Installing software and application to user standards

**Personal Information:**

**Height:** 5'4 ft.

**Weight:** 57 kg

**Sex:** Male

**Date of Birth:** November 9, 1995

**Civil Status:** Single

**Nationality:** Filipino

**Religion:** Roman Catholic

---

**EDUCATIONAL BACKGROUND**

**PRIMARY:** Bagong barrio elementary School (2002-2008)

**SECONDARY:** St. Vincent School Foundation Paniqui, Tarlac (2008-2012)

**TERTIARY:** Polytechnic University of the Philippines (2012-Present)

---

**Trainings and Seminars**

- CCIS @29: THE JOURNEY TO SUCCESS 2015- PUP MANILA
  - Discussed the topic UX Design and Web Trends
- 3rd UNIVERSITY – WIDE IT RESEARCH FORUM 2015 IN PUP MANILA
  - The forum discussed different methods in researching and introduced different researches in the field of Information Technology.

**Carlson Cruz**

**Address No:** #20 Howmart Road Brgy. Apolonio Samson

**Contact No:** 09169118616

**Email address:** carl\_son\_cruz@live.com

---

**Skills**

- Knowledge at Microsoft Office: 2007, 2010, 2013
  - Knowledgeable in Technical Writing
  - Proficient in programming languages such as Visual Basic .NET.
  - Advance knowledge and editing skills in Adobe Photoshop, and Flash
  - Knowledgeable in CISCO Packet Tracer
  - Knowledgeable on Database Administration Tools: SQL Server and Microsoft Access
  - Computer Assembling and Maintenance
  - Troubleshooting of hardware and software problems
  - Installing and configuring peripherals, components and drivers
  - Installing software and application to user standards
- 

**Personal Information:**

**Height:** 5'1 ft.

**Weight:** 35 kg

**Sex:** Male

**Date of Birth:** October 18, 1994

**Civil Status:** Single

**Nationality:** Filipino

**Religion:** Roman Catholic

---

**EDUCATIONAL BACKGROUND**

**PRIMARY:** San Antonio Elementary School (2006-2007)

**SECONDARY:** Ramon Magsaysay Cubao High School (2007-2011)

**TERTIARY:** Polytechnic University of the Philippines (2011-Present)

---

**Trainings and Seminars**

- CCIS @29: THE JOURNEY TO SUCCESS 2015- PUP MANILA
    - Discussed the topic UX Design and Web Trends
  - 3rd UNIVERSITY – WIDE IT RESEARCH FORUM 2015 IN PUP MANILA
    - The forum discussed different methods in researching and introduced different researches in the field of Information Technology.
-

**Rosary Lee Reves**

**Address No:** 514 Taal Bldg. Westbank Bliss Pasig City

**Contact No:** 09368872801

**Email address:** rosaru38@gmail.com

---

**Skills**

- Knowledge at Microsoft Office: 2007, 2010, 2013
  - Knowledgeable in Technical Writing
  - Proficient in programming languages such as Visual Basic .NET.
  - Advance knowledge and editing skills in Adobe Photoshop, and Flash
  - Knowledgeable in CISCO Packet Tracer
  - Knowledgeable on Database Administration Tools: SQL Server and Microsoft Access
  - Computer Assembling and Maintenance
  - Troubleshooting of hardware and software problems
  - Installing and configuring peripherals, components and drivers
  - Installing software and application to user standards
- 

**Personal Information:**

**Height:** 5'3 ft.

**Weight:** 48 kg

**Sex:** Male

**Date of Birth:** April 28, 1996

**Civil Status:** Single

**Nationality:** Filipino

**Religion:** Roman Catholic

---

**EDUCATIONAL BACKGROUND**

**PRIMARY:** Napico Elementary School (2004-2008)

**SECONDARY:** Sta. Lucia High School(2008-2012)

**TERTIARY:** Polytechnic University of the Philippines (2012-Present)

---

**Trainings and Seminars**

- CCIS @29: THE JOURNEY TO SUCCESS 2015- PUP MANILA
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    - The forum discussed different methods in researching and introduced different researches in the field of Information Technology.
-

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