



RECREATION AND WELLNESS INTRANET MANAGE YOUR HEALTH INC.

A Report submitted as a part of
the Assignment for the subject CSIT883

System Analysis and Project Management

from

UNIVERSITY OF WOLLONGONG

by

Karan Goel - 7836685
Banin Sensha Shrestha - 8447196
Kushal Rimal - 8735876
Dipesh Baral - 8712785
Affan Mehmood - 8228851

School of Computing and Information Technology
Faculty of Engineering and Information Sciences

2024

Table of Contents

List of Tables	iii
List of Figures/Illustrations	iv
ABSTRACT	v
MEMBER CONTRIBUTION	vi
1 Project Integration Management	1
1.1 About client	1
1.2 Objectives	1
1.3 Proposal Analysis	2
1.4 Business Case Study	2
2 Project Scope Management	3
2.1 Section1	3
2.2 Section2	3
3 Project Schedule Management	4
3.1 Section1	4
3.2 Section2	4
4 Project Quality Management	5
4.1 Section1	5
4.2 Section2	5
5 Project Resource Management	6
5.1 Section1	6
5.2 Section2	6
6 Project Risk Management	7
6.1 Section1	7
6.2 Section2	7
7 Project Stakeholder Management	8
7.1 Section1	8
7.2 Section2	8

8	Project Closing and Lessons-Learned	9
8.1	Section1	9
8.2	Section2	9
9	UML Diagrams	10
9.1	Domain Class Diagram	10
9.2	Use Case Diagram	11
9.3	Fully Developed Use Case Description	11
9.4	Sequence Diagram	11
9.5	Activity Diagram	11

List of Tables

1	Contribution Table	vi
9.1	The Registration Subsystem Use Cases	11
9.2	The Program Subsystem Use Cases	11
9.3	The Event Subsystem Use Cases	14
9.4	The Payroll Subsystem Use Cases	14
9.5	The Analysis Subsystem Use Cases	16
9.6	Register/Create Account	18

List of Figures

9.1	Domain Class Diagram	10
9.2	Use case diagram for Registration subsystem	12
9.3	Use case diagram for Program subsystem	13
9.4	Use case diagram for Event subsystem	15
9.5	Use case diagram for Payroll subsystem	16
9.6	Use case diagram for Analysis subsystem	17
9.7	Activity Diagram of all the subsystem	19
9.8	Activity Diagram of all the subsystem	20
9.9	Activity Diagram of Create Account use case	21

RECREATION AND WELLNESS INTRANET
MANAGE YOUR HEALTH INC.

System Analysis and Project Management

School of Computing and Information Technology
University of Wollongong

ABSTRACT

A comprehensive workplace health program is crucial for fostering a positive corporate culture and maintaining a productive workforce. Such programs promote proactive health management among employees, reduce absenteeism, and minimize health-related costs, ultimately leading to higher job satisfaction and productivity. By prioritizing wellness, organizations create a supportive environment that values employees' physical and mental well-being, resulting in long-term benefits for individuals and the business.

Our client, Manage Your Health Inc.(MYH), recognizes the importance of workplace health programs and has tasked us with developing a project that seamlessly integrates a suite of health and wellness modules into their organizational framework. The initiative aims to foster a culture of wellness, improve employee health, and reduce insurance costs, with projected net savings over the next four years.

This report provides a comprehensive overview of system specifications and a detailed blueprint for implementing the project successfully. It presents key components, including system analysis, resource allocation, stakeholder engagement, risk assessment, and UML modeling, which collectively form a cohesive roadmap that ensures the project's effectiveness in achieving the company's health management goals.

MEMBER CONTRIBUTION

Table 1: Contribution Table

Name	Student Number	Contribution
Karan Goel	7836685	contributed
Banin Sensha Shrestha	8447196	contributed
Kushal Rimal	8735876	contributed
Dipesh Baral	8712785	contributed
Affan Mehmood	8228851	contributed

Part 1

Project Integration Management

Our first step in ensuring the successful delivery of this project for our client is to gain a comprehensive understanding of their primary goals and objectives. This part provides an overview of the main objectives, initial proposals, and business case studies that have been developed in consultation with the client.

1.1 About client

1.2 Objectives

MYH is a fortune 500 company with more than 20,000 full-time employees. Their strategic plan have three key goals in mind as follows

1. **Business Costs Reduction:** Reduce internal expenses to improve efficiency and profitability.
2. **Business Growth:** Expand market reach and revenue by increasing cross-selling opportunities.
3. **Employees and Customer Growth:** Foster better collaboration among em-

employees, customers, and suppliers by using new web-based technologies, thereby improving the development and delivery of healthcare products and services.

In response to these challenges, the client has presented three potential solutions and has requested us to conduct a preliminary analysis to determine which option best aligns with their needs:

- 1. Health Coverage Costs Business Model:** Develop a secure application to model and analyze healthcare expenses. Although this tool has an initial development cost of \$100,000, it is expected to save \$20 per full-time employee annually.
- 2. Web-Enhanced Communications System:** Create a web-based system to streamline product development and delivery. This system is projected to save \$2 million annually, with a development cost of \$3 million and annual maintenance expenses.
- 3. Recreation and Wellness Intranet Project:** Launch an intranet application to promote employee health and wellness. The project aims for net savings of \$30 per employee each year by reducing healthcare premiums through improved employee health.

1.3 Proposal Analysis

As per the request stated by our client we did initial analysis to find the solution that will best fulfill their needs

1.4 Business Case Study

Part 2

Project Scope Management

Need to be added

2.1 Section1

Need to be added

2.2 Section2

Need to be added

Part 3

Project Schedule Management

Need to be added

3.1 Section1

Need to be added

3.2 Section2

Need to be added

Part 4

Project Quality Management

Need to be added

4.1 Section1

Need to be added

4.2 Section2

Need to be added

Part 5

Project Resource Management

Need to be added

5.1 Section1

Need to be added

5.2 Section2

Need to be added

Part 6

Project Risk Management

Need to be added

6.1 Section1

Need to be added

6.2 Section2

Need to be added

Part 7

Project Stakeholder Management

Need to be added

7.1 Section1

Need to be added

7.2 Section2

Need to be added

Part 8

Project Closing and Lessons-Learned

Need to be added

8.1 Section1

Need to be added

8.2 Section2

Need to be added

Part 9

UML Diagrams

Need to be added yet

9.1 Domain Class Diagram

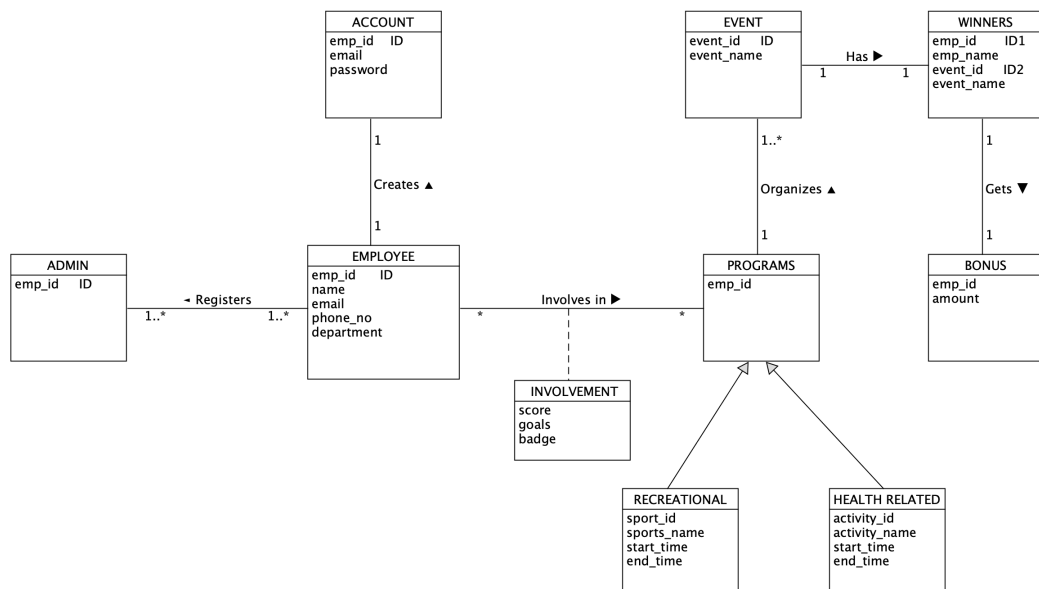


Figure 9.1: Domain Class Diagram

9.2 Use Case Diagram

Table 9.1: The Registration Subsystem Use Cases

RWIP Registration Subsystem	
Use Cases	Users/Actors
Create Account	Employee
Verify Account	Employee
Login to Account	Employee

Table 9.2: The Program Subsystem Use Cases

RWIP Program Subsystem	
Use Cases	Users/Actors
Login	Employee
Select Programs	Employee
Book/Enroll Programs	Employee
Participate in Programs	Employee
Update badges and rewards	Employee

9.3 Fully Developed Use Case Description

9.4 Sequence Diagram

9.5 Activity Diagram

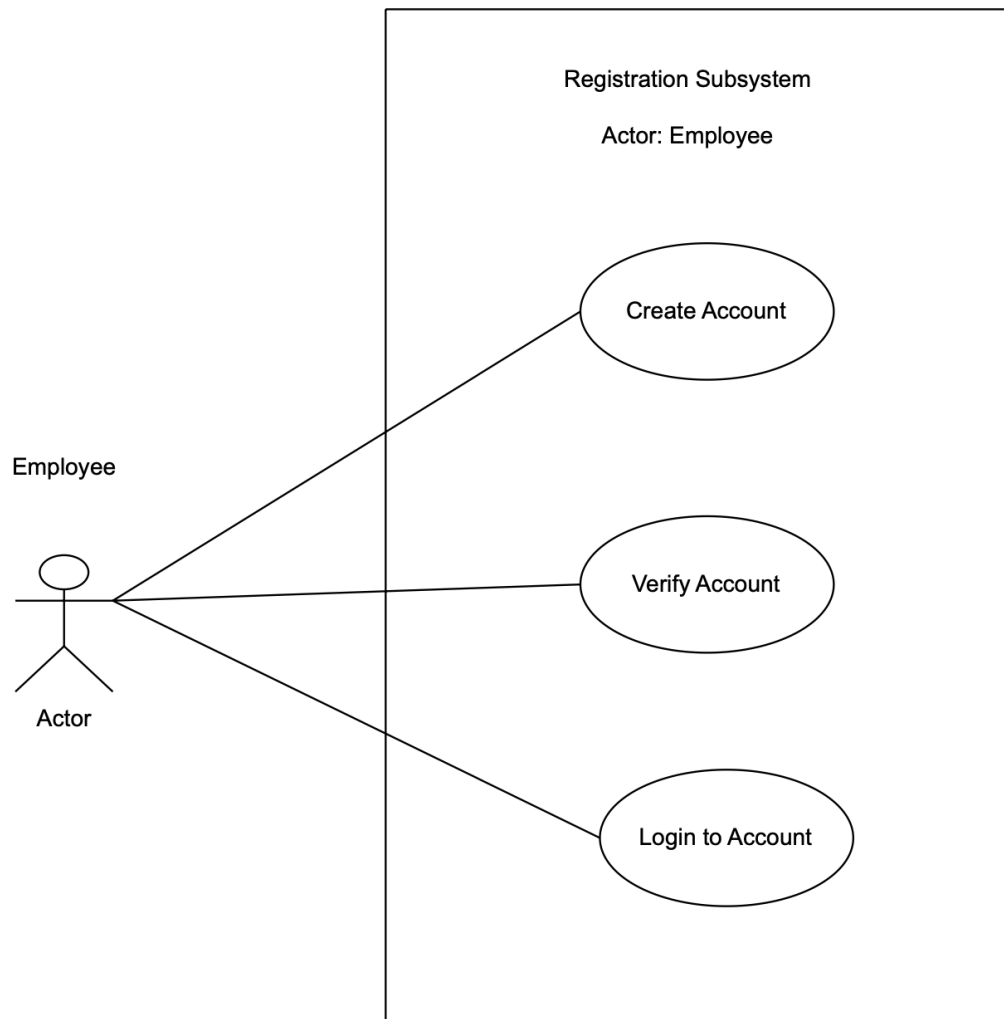


Figure 9.2: Use case diagram for Registration subsystem

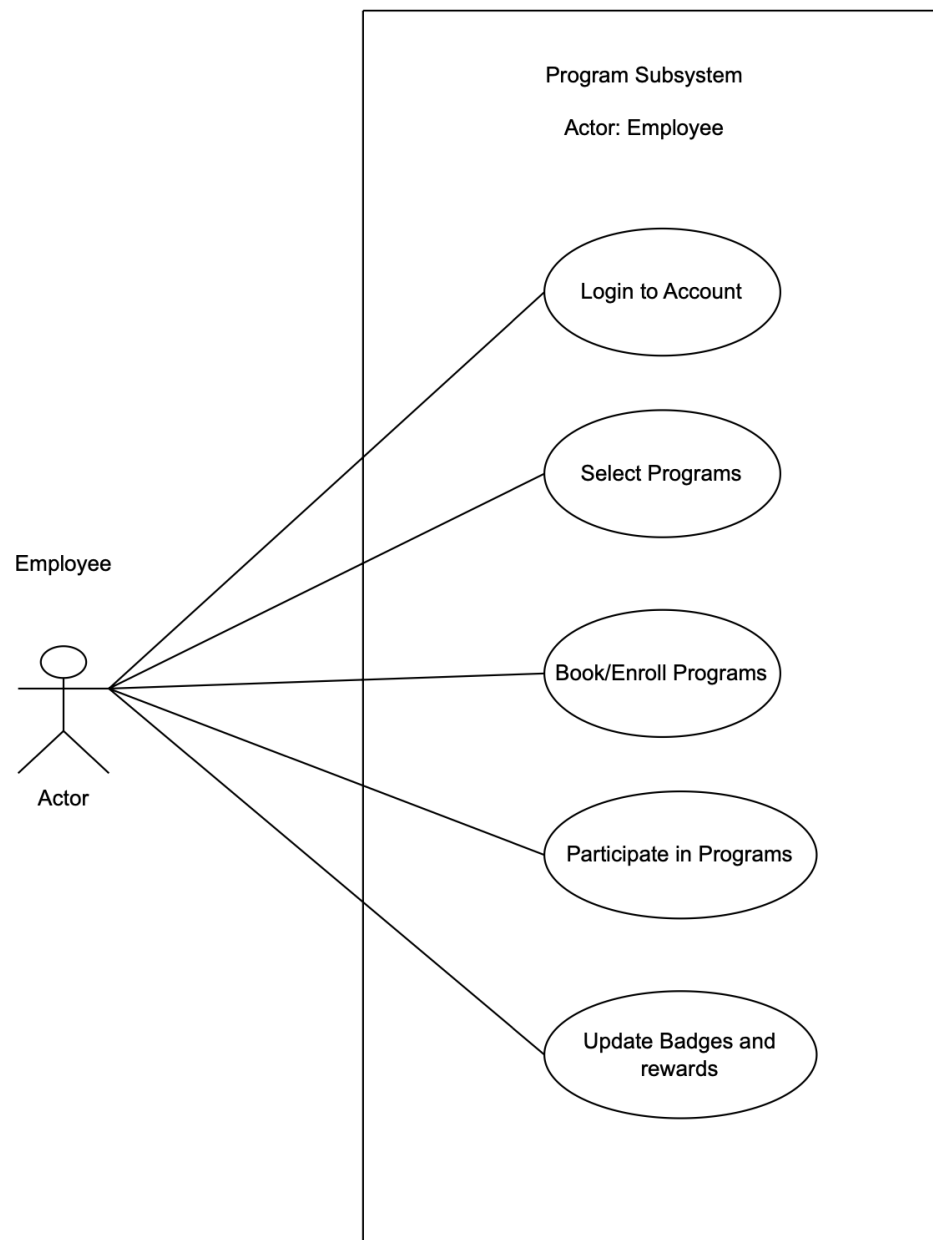


Figure 9.3: Use case diagram for Program subsystem

Table 9.3: The Event Subsystem Use Cases

RWIP Event Subsystem	
Use Cases	Users/Actors
Organise Events	HR/Admin
Notify Events	HR/Admin, Employee
Design Banner	HR/Admin
Participate in Events	Employee
Declare winners	HR/Admin, Employee

Table 9.4: The Payroll Subsystem Use Cases

RWIP Payroll Subsystem	
Use Cases	Users/Actors
Get the list of winners in different Programs	Payroll Officer, Employee
Provide bonuses	Payroll Officer, Employee
Update Payroll	Payroll Officer

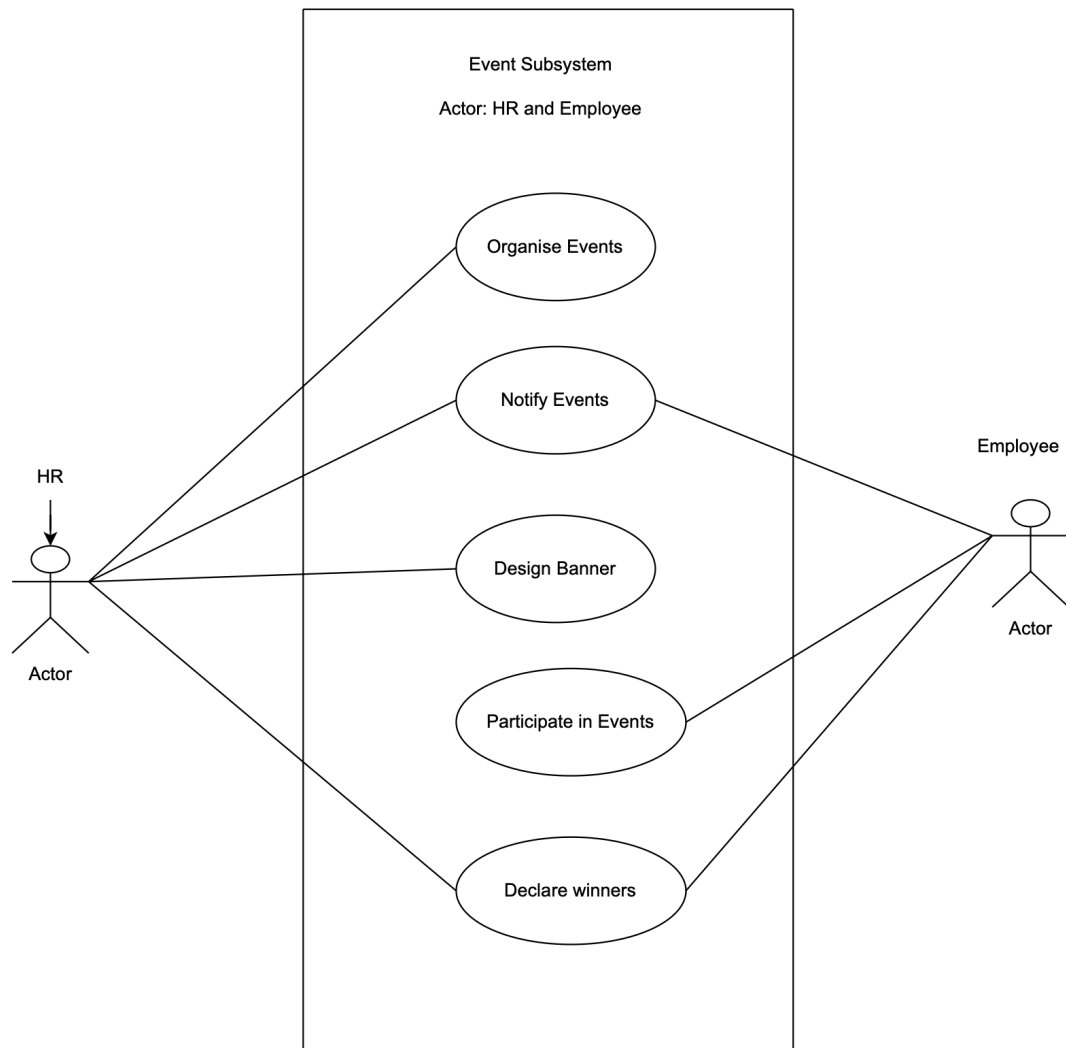


Figure 9.4: Use case diagram for Event subsystem

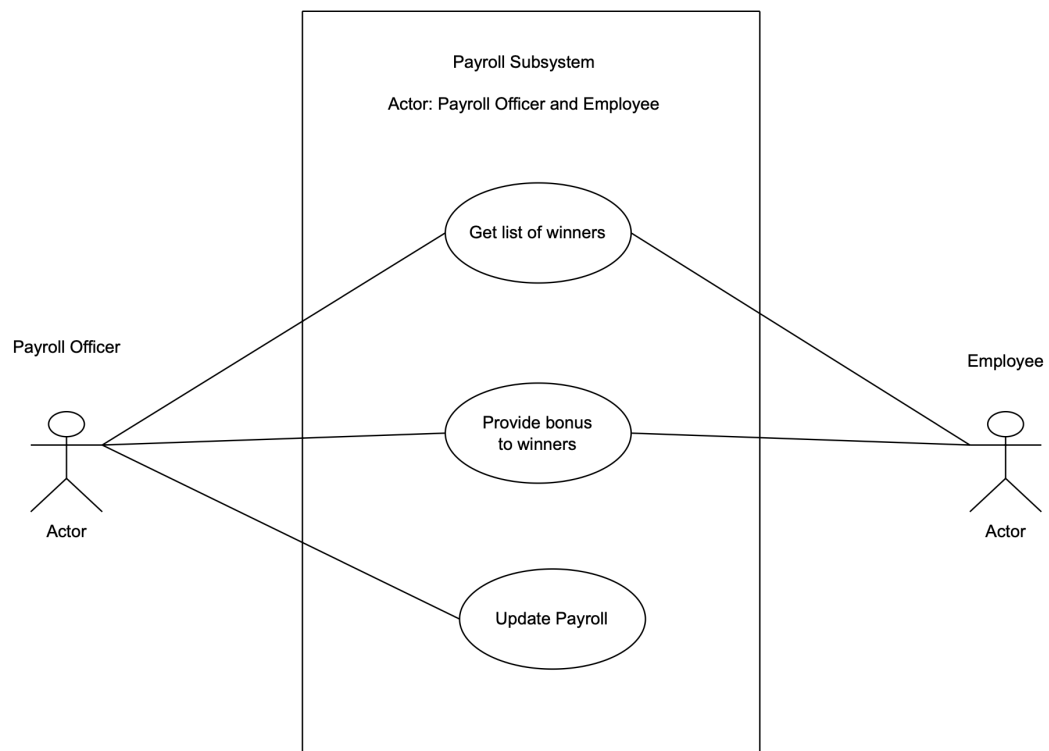


Figure 9.5: Use case diagram for Payroll subsystem

Table 9.5: The Analysis Subsystem Use Cases

RWIP Analysis Subsystem	
Use Cases	Users/Actors
Register as Admin	Analyst
Login as Admin	Analyst
Fetch Data	Analyst
Analyze Data	Analyst
Generate Report	Analyst, Developers
Make Decisions	Analyst

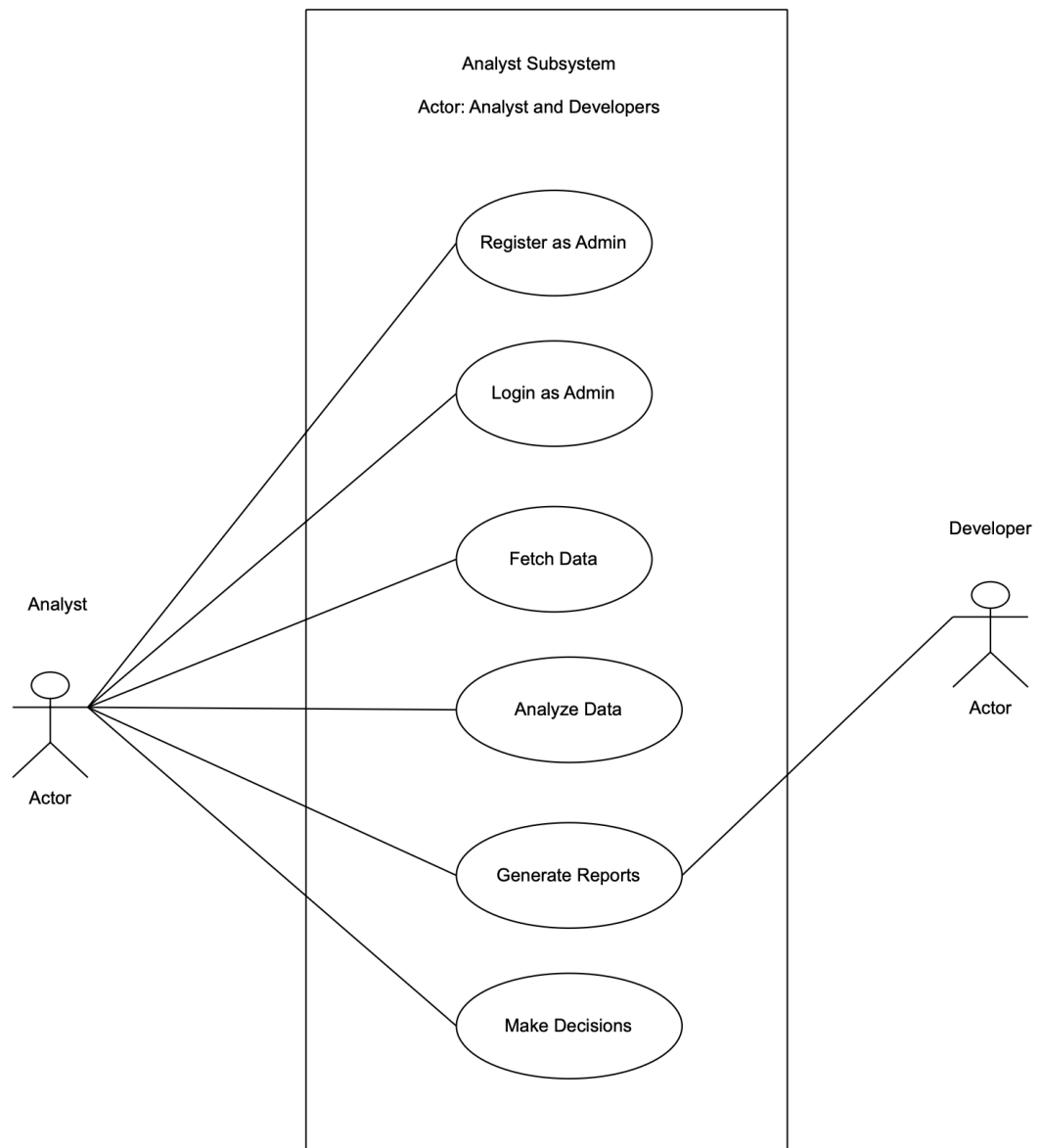


Figure 9.6: Use case diagram for Analysis subsystem

Table 9.6: Register/Create Account

Use case name:	Create employee a
Scenario:	Create online employe
Triggering event:	Employee wants to join the recreation
Brief description:	Employee signs up or creates new account by providing their emplo
Actors:	Employees
Related use cases:	Admin can create account on 1
Stakeholders:	Admin, HR
Pre-conditions:	Registration subsystem mu
Post-conditions:	Employee account must be c
Exception conditions:	Employee might not have email id

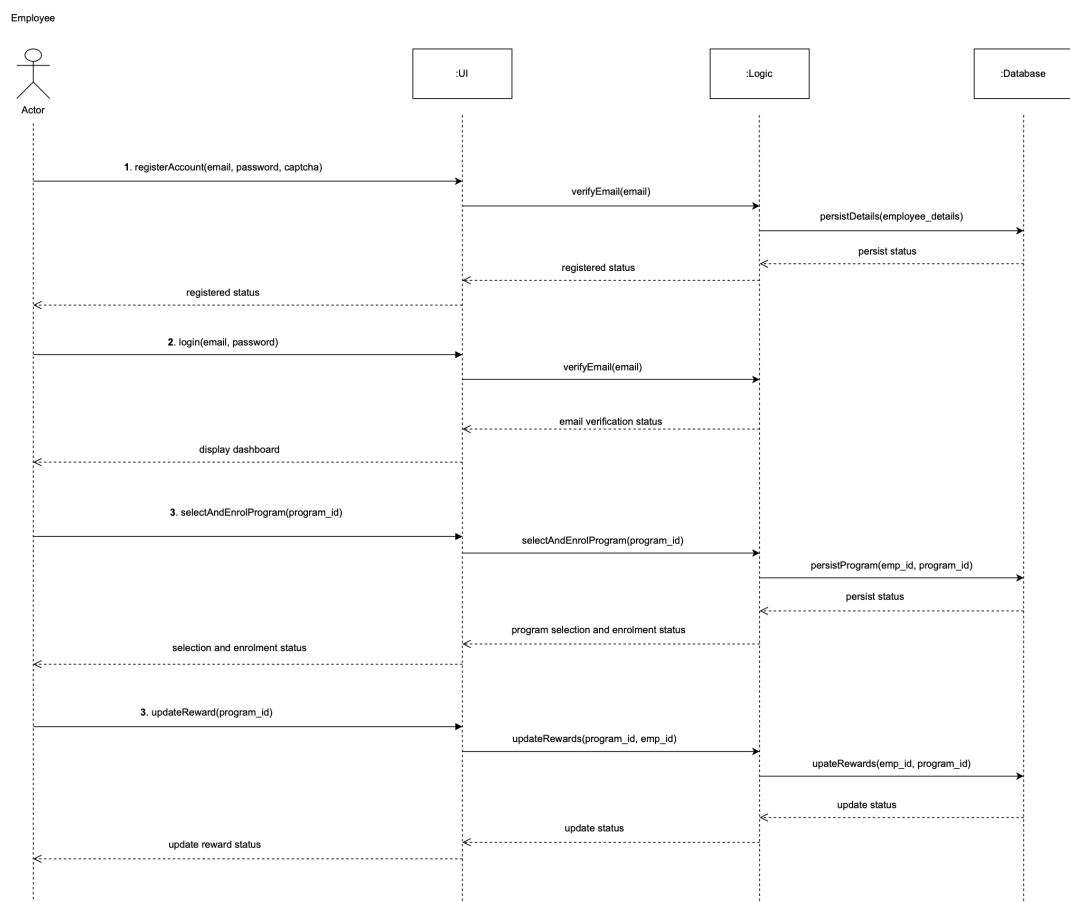


Figure 9.7: Activity Diagram of all the subsystem

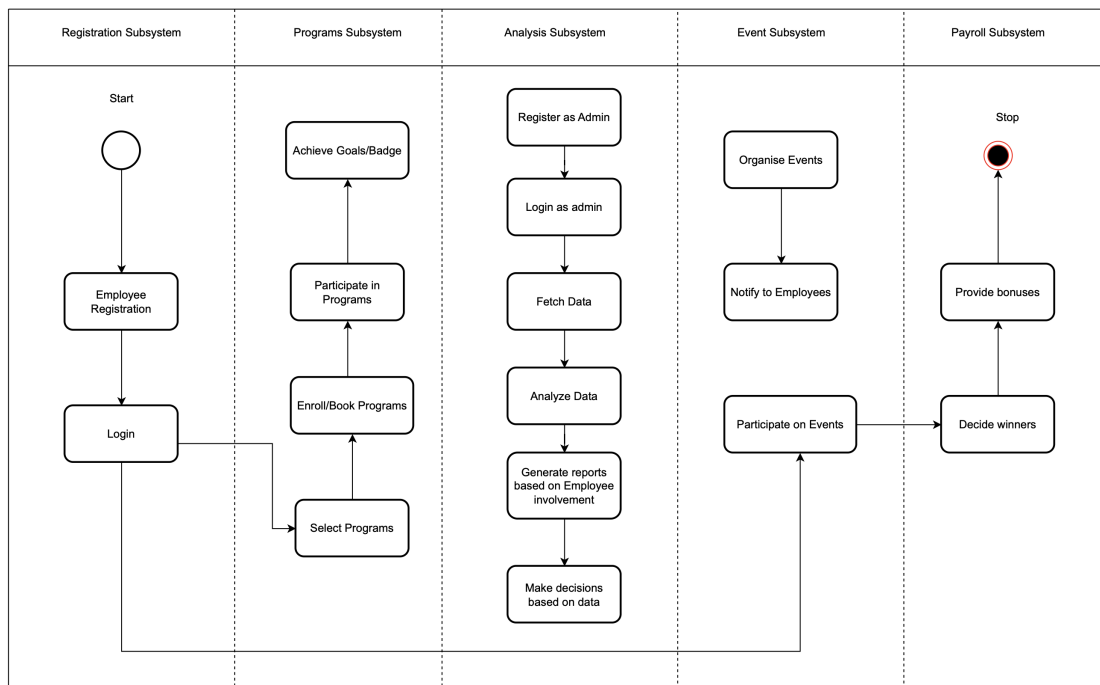


Figure 9.8: Activity Diagram of all the subsystem

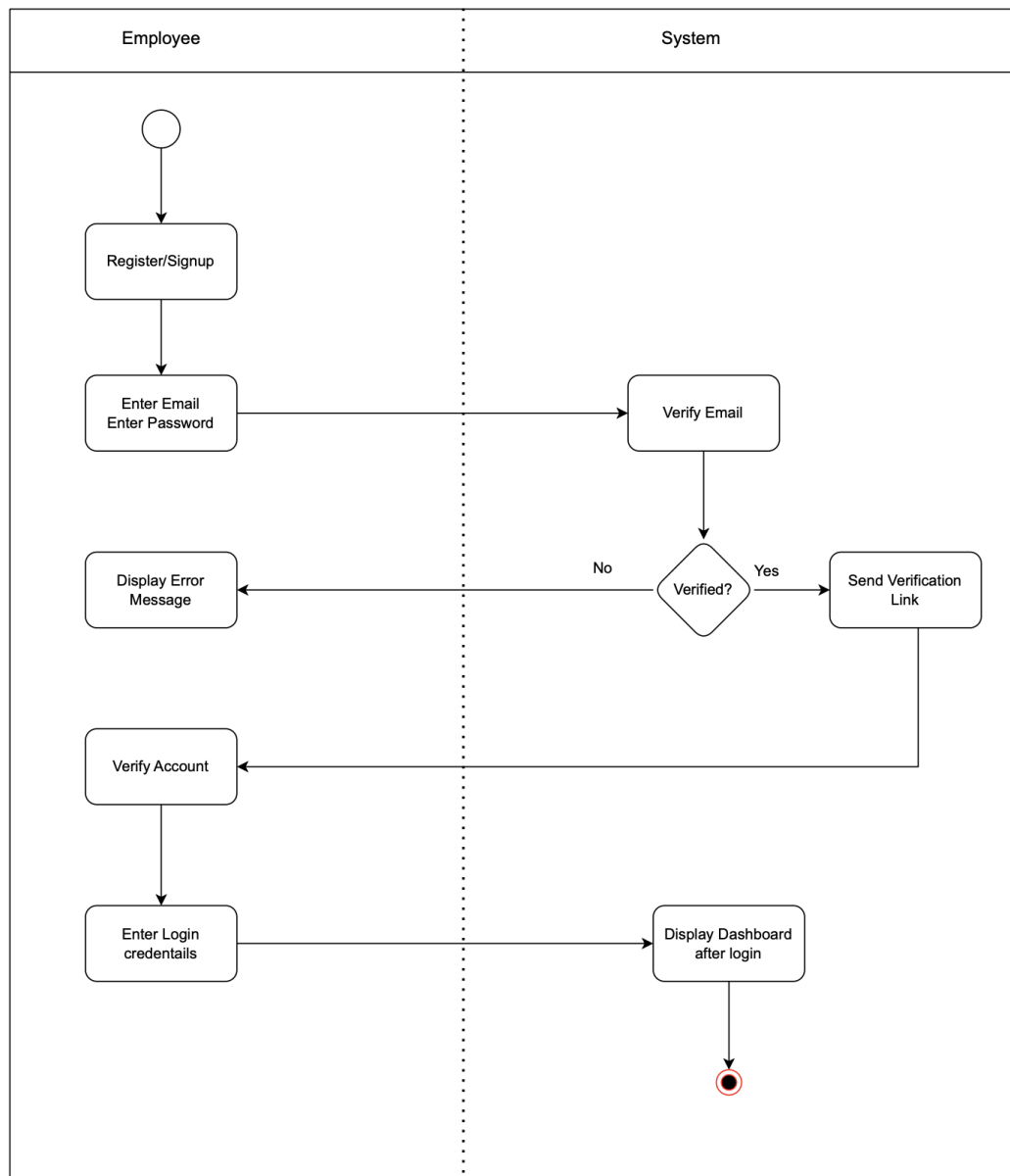


Figure 9.9: Activity Diagram of Create Account use case