DCS&IT- UOS-Project Coordination Office	Version: 1.0
Final Project	Date: January 25, 2021



Department of Computer Science & Information Technology

University of Sargodha

Final Project

Version 1.0

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Revision History

This section describes the revision history of this document.

Date	Version	Description of Change	Author	
January 25, 2021	1.0	First Draft of Final Project Deliverable Guideline	Project Office	Coordination

Distribution List

This section describes the distribution list for the recipients of this document.

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		Information Technology	

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Chapter 1: Final Project Proposal

1.1 Introduction

IT stands for Information Technology. Information technology (IT) is the application of computers and telecommunications equipment to store, retrieve, transmit and manipulate data, often in the context of a business or other enterprise. IT includes a combination of hardware and software used together to perform the essential functions people need and use every day. Most IT professionals will work with an organization to focus on and meet their needs technologically by understanding what they need, showing them options on what current technology is available to do their needed tasks, then implementing the technology into their current setup, or creating a whole new set up.

We get this idea from the website of the PHA (Parks and Horticulture Authority) website. We are the first one to make this project, so the whole project is new. Therefore we cannot say that we are adding something new because the whole concept of this project is new.

In this project we manage the parks and help the visitors to know about upcoming events and schedule and also about the staff that is working in the designated parks. It will also help the supervisor to manage the parks and the staff also the landscaping etc. the admin will handle all things about them, so we make the city cleaner brighter and greener.

1.2. Project Title:

Online parks and Horticulture Authority of Gujranwala

1.3. Project Overview statement:

This project is about parks and landscaping and how to manage them. The name of this project is PHA (Parks and Horticulture Authority). In this project there is admin who will manage all the things that is happening and under him will some supervisors that control the staff.

This project show that how many parks in the city and gives the news about the events that will help the visitors so that they can find the park that are nearby their location, they can also complain about the park that there is for example the park has not good scenery or the staff do not work properly that will help the supervisor and admin to make that park better in future. It will also help the supervisor to manage and maintain the park and staff.

Proje	ect Overview Staten	nent			
	Title: Parks and Horticult				
Project	Manager: Muhammad Bil	al			
Project	Members:				
Name		ation # Email	Address	Signature	
M Al	odullah	Abdull	ahm111122@gmail.com		
M Sa	eed	Saeedr	nsaeed923@gmail.com		
Project	Goal:				
		nage the parks and	gives the news about the	upcoming events and	l about
	facilitate visitor.			1 0	
Object	ives.				
Sr.	1703.				
#					
1	Manage Parks				
2	Landscaping				
3	Manage Events				
4	Making City Beautiful				
5	Facilitate Visitor				
6	Facilitate Supervisor				
	Success criteria:				
			the first one of making this	project in Gujranwala	ì.
	ptions, Risks and Obstacle				
	bit risk but it is ignorable.				
Organi	zation Address (if any):				
	of project:	□Research	□Development		
Target	End users:				
Develo	opment Technology:	☐ Object Orient	ed Structured		
Platfor	m:		□Distributed		
	ktop based	☐ Setup Configu	urations		
Othe		_			
	ved By:				
Date:					

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1.4. Project Goals & Objectives:

Objectives:

- Manage Parks
- Manage Staff
- Facilitate Visitors
- Manage Events
- Facilitate Supervisor

Project Goal:

The goal of this project is to manage the parks and gives the news about the upcoming events and about staff to facilitate visitor.

1.5. High-level system components:

The Components are as follows:

- 1-Admin
- 2-Parks Supervisor
- 3-Staff
- 4-Visitor

1.6. List of optional functional units:

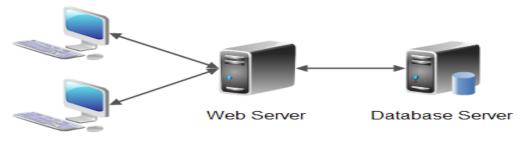
- Manage the parks
- Manage nursery
- Construction report
- Complains
- Parks registration
- Control the staff of PHA

1.7. Exclusions:

We give the visitor to easily find the details about the parks and upcoming events. We also help the supervisor to manage the staff and Landscaping.

1.8. Application Architecture:

Three tier Architecture



Web Browser

1.9. Gantt chart:



1.10. Hardware and Software Specification:

Hardware and Software required for this Project are as follows:

1.10.1. Hardware Required:

Minimum CPU: Dual Core processor 2.0 GHz

Minimum Ram: 1GB Minimum HDD: 15GB

Input Devices: Keyboard, Mouse

Output Devices: Monitor

1.10.2. Software Required:

Operating System: Window XP/Window 7/Window 8/Window 10

Application Software: Web Browser

1.11. Tools and technologies used with reasoning:

1.11.1 MS Word

MS word allows the user to type the and save the document. We will use the MS word to create documentation of our project

1.11.2 HTML

Hypertext markup language is the standard language for creation web pages and web application.

1.11.3 CSS

Cascading style sheet used for describing the presentation of a document written in a markup language.

1.11.4 PHP

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PHP is a general purpose scripting language that is used to web development for server side.

1.11.5 XAMPP

We will use xampp to test work on our own computer without any access to the internet.

1.11.6 Microsoft Project

It is used for the development of Gantt chart which shows all the flow of activities of a project.

1.11.7 Sublime Text (3)

It is a simple text editor that is used for coding of web pages.

1.11.8 JavaScript

Java script is a client side scripting language. It is use for the dynamic working on client side.it make the web page more interactive for users.

1.11.9 J Query

J query is a JavaScript library. It is use for the client side scripting and make the web page more attractive for the user.

1.11.10 BOOTSTRAP

Bootstrap is a framework of CSS and JavaScript. It is use easily for the making the web pages.

1.11.11 Edraw

Edraw is used to create the use cases and organization chart.

1.11.12 Microsoft Project

Microsoft project is used to create the Ghent chart of the project.

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Chapter 2: First Deliverable

2.1. Introduction

IT stands for Information Technology. Information technology (IT) is the application of computers and telecommunications equipment to store, retrieve, transmit and manipulate data, often in the context of a business or other enterprise. IT includes a combination of hardware and software used together to perform the essential functions people need and use every day. Most IT professionals will work with an organization to focus on and meet their needs technologically by understanding what they need, showing them options on what current technology is available to do their needed tasks, then implementing the technology into their current setup, or creating a whole new set up.

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2.2. Project/Product Feasibility Report

Any feasibility study is aimed at assisting decision-makers in determining whether or not to implement a particular project or program. After a feasibility study, the decision-maker makes a "go/no-go" decision. It is therefore important to make sure that one is dealing with correct assumptions and up to date data.

There are many types of feasibilities:

- Technical
- Operational
- Economic
- Schedule
- Specification
- Information
- Motivational
- Legal and Ethical

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2.2.1. Technical Feasibility

This feasibility is developed by using an Active server page, HTTP, HTML and CSS and MySQL.

• HTTP:

It sends server to server request submitted by the user. Through HTTP web server view the web pages.

• ASP:

It is a server side component and is used for sever side validation.

• HTML and CSS:

It is used for front end design.

• MySQL:

This is used for making the database.

All the software and the hardware are available in the market so it is technical feasible.

2.2.2. Operational Feasibility

- Sufficient support for visitors.
- Work efficiently after the implementation.
- Visitor can save time by finding the parks that are nearby and also check the news of upcoming event beforehand.
- It will help the admin to gain a lot of profit also to manage the supervisors and visitor complains.

2.2.3. Economic Feasibility

In this feasibility we have to check that hardware and software cost is within the estimation budget or the investment and how much they can benefit or gain for this project.

2.2.4. Schedule Feasibility

In this feasibility we have to to complete every step of our project within the time limit so it can meet the deadline that's why we set the schedule to complete the project within the time.

2.2.5. Specification Feasibility

In this feasibility we have to specify the requirements of the visitor, supervisor, staff and admin.

2.2.6. Information Feasibility

In this feasibility we have to give the information about our product that it is easy to use or how to use it.

2.2.7. Motivational Feasibility

In this feasibility we have to motivate the user and the staff so they can work efficiently.

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2.2.8. Legal & Ethical Feasibility

In this feasibility we can perform the legal activities which is approved by the government.

2.3. Project/Product Scope

In this project we facilitate the visitors by giving them the detail of the parks available in the city and events that are upcoming also the schedule of the event and the news of upcoming new parks that are under construction they can also complain that will help the supervisor and admin to make changes in the park according to the visitor if that change is valid. So that's why the scope of this project is good.

2.4. Project/Product Costing

2.4.1. Project Cost Estimation By Function Point Analysis

Type of component	Complexity of Components			
	Low	Average	High	Total
External Inputs	6*3=18	6*4=24	4*6=24	66
External Output	4*4=16	6*5=30	4*7=28	74
External Inquiries	9*3=27	5*4=20	5*6=30	77
Internal Logical Files	1*7=7	1*10=10	0*15=0	17
External Interface files	2*5=10	0*7=0	0*10=0	10
Total Number of Unadjusted Function Points				244

Sr. No	Factors	Fi Values
1	Data communications	4
2	Distributed data processing	0
3	Performance	2
4	Heavily used configuration	1
5	Transaction rate	3
6	On-Line data entry	4
7	On-Line update	5
8	End-user efficiency	2
9	Complex processing	3
10	Reusability	4
11	Installation ease	3
12	Operational ease	3
13	Multiple sites	1
14	Facilitate change	3
	∑ Fi	38

To compute function points (FP), the following relationship is used:

The formulae are given as follows:

Cost / FP = labor rate / productivity parameter
$$Cost/FP=15000/25$$
 $Cost /FP=600$

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2.4.2. Project Cost Estimation by using COCOMO'81 (Constructive Cost Model)

Boehm's COCOMO model is one of the mostly used models commercially. COCOMO 81 is a model that allows one to estimate the cost, effort, and schedule when planning a new software development activity.

From three types of layers in COCOMO we have selected basic.

• **Basic:** Is used mostly for rough, early estimates.

Model consists on major three levels:

- 1. Organic(small software projects)
- 2. Embedded(intermediate between organic and embedded)
- 3. Semi-detached(including large projects with unfamiliar algorithm)

Basic COCOMO

Type	Effort	Schedule
Organic	PM=27.07	TD=8.7

The schedule is determined using the Basic COCOMO schedule equations.

2.5. Task Dependency Table

SR NO	Task Name	DURATION (DAYS)	PRECEDENCE
1	Parks and Horticulture Authority 151		
2	Chapter 1: Final Project Proposal	17 days	
3	Introduction	1 day	
4	Project Title:	1 day	3
5	Project Overview statement:	1 day	4
6	Project Goals & Objectives:	3 days	5
7	High-level system components:	2 days	6
8	List of optional functional units:	2 days	7
9	Exclusions:	1 day	8
10	Application Architecture:	2 days	8
11	Gantt chart:	3 days	9
12	Hardware and Software Specification:	1 day	10
13	Tools and technologies used with		
14	Chapter 2: First Deliverable 22 days		
15	Introduction	3 days	13
16	Project/Product Feasibility Report	4 days	
17	Technical Feasibility	1 day	15
18	Operational Feasibility	1 day	17
19	Economic Feasibility	1 day	18
20	Schedule Feasibility	1 day	18
21	Specification Feasibility	1 day	18
22	Information Feasibility	1 day	18
23	Motivational Feasibility	1 day	18
24	Legal & Ethical Feasibility	1 day	18
25	Project/Product Scope	2 days	24
26	Project/Product Costing	2 days	
27	Project Cost Estimation By Function Point Analysis	1 day	25
28	Project Cost Estimation by using COCOMO'81 (Constructive Cost Model)	1 day	27
29	Task Dependency Table	1 day	28
30	CPM - Critical Path Method	1 day	29
31	Gantt chart	2 days	30
32	Introduction to Team member and their skill set	1 day	31
33	Task and Member Assignment Table	1 day	31
34	Tools and Technology with reasoning	2 days	33
35	Vision Document	1 day	34

36	Risk List	1 day	35
37	Product Features/ Product Decomposition	1 day	36
38	Chapter 3: Second Deliverable For Object Oriented Approach	38 days	
39	Introduction	2 days	37
40	Existing System	2 days	39
41	Systems Specifications	2 days	39
42	Context Level Data Flow Diagram:	1 day	39
43	Scope of the System	2 days	42
44	Summary of Requirements:(Initial Requirements)	1 day	43
45	Identifying External Entities:	1 day	44
46	Capture "shall" Statements:	2 days	45
47	Allocate Requirements:	1 day	46
48	Priorities Requirements:	1 day	47
49	Requirements Traceability Matrix:	2 days	48
50	High Level Usecase Diagram:	3 days	49
51	Analysis Level Usecase Diagram:	1 day	49
52	Usecase Description	1 day	51
53	Chapter 4: Third Deliverable For Object Oriented Approach	18 days	
54	Introduction:	2 days	52
55	Domain Model	4 days	54
56	System Sequence Diagram	1 day	55
57	Sequence Diagram	1 day	56
58	Collaboration Diagram	2 days	57
59	Operation Contracts	2 days	58
60	Design Class Diagram	1 day	58
61	State chart diagram	1 day	60
62	Data Model	1 day	60
63	Chapter 5: 2nd & 3rd Deliverable For structured Approach	13 days	
64	Introduction:	2 days	62
65	Entity Relationship Diagram:	4 days	64
66	Data flow diagram (Functional Model)	2 days	65
67	State Transition Diagram	2 days	66
68	Architectural design	2 days	67
69	Component Level Design	1 day	68
70	Chapter 6: Development	24 days	
71	Database design	12 days	69
72	Front End Design	4 days	71

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73	Backend Design	8 days	72
74	Chapter 7: 4th Deliverable (User Interface Design) 8 days		
75	Introduction	1 day	73
76	Site Maps	2 days	75
77	Story boards	2 days	76
78	Navigational maps:	3 days	77
79	Chapter 8: 5th Deliverable (Software Testing)	11 days	
80	Introduction	1 day	78
81	Test plan	10 days	80

2.6. CPM - Critical Path Method

SR NO	ACTIVITY NAME	DURATION (DAYS)	ACTIVITY ID
1	Chapter 1: Final Project Proposal	17 days	A
2	Chapter 2: First Deliverable	22 days	В
3	Chapter 3: Second Deliverable For Object Oriented Approach	38 days	С
4	Chapter 4: Third Deliverable For Object Oriented Approach	18 days	D
5	Chapter 5: 2nd & 3rd Deliverable For structured Approach	13 days	E
6	Chapter 6: Development	24 days	F
7	Chapter 7: 4th Deliverable (User Interface Design)	8 days	G
8	Chapter 8: 5th Deliverable (Software Testing)	11 days	Н

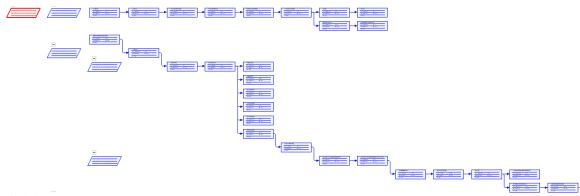
Activity Table:

SR NO	ACTIVITY ID	DURATION(DAYS)	PRECEDENCE
1	A	17days	
2	В	22 days	A
3	С	38 days	В
4	D	18 days	С
5	Е	13 days	С
6	F	24 days	D,E

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7	G	8 days	F
8	Н	11 days	G

Network Diagram



Critical Path:

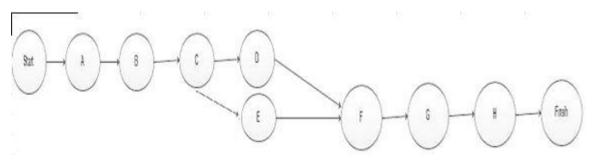
ACTIVITY ID	DURATION(DAYS)	PRECEDANCE	ES	EF	LS	LF
А	151 days	-	0	17	0	17
В	17 days	A	17	39	17	39
С	22 days	В	39	77	39	77
D	38 days	С	77	95	77	95
E	18 days	С	77	90	82	95
F	13 days	D,E	95	119	95	119
G	24 days	F	119	127	119	127
Н	8 days	G	127	138	127	138

The parameter and slacks are calculated are as follows:

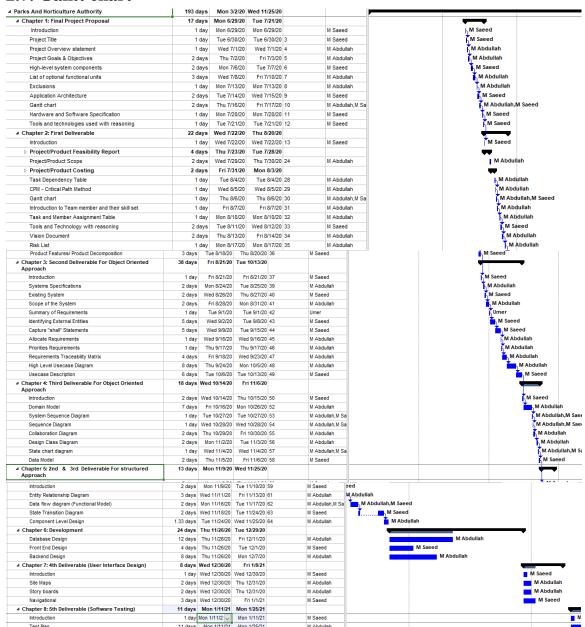
The critical path is:

A, B, C, E, F, G, H

INDEMINIFY CRITICAL PATH DIAGRAM



2.7. Gantt chart



2.8. Introduction to Team member and their skill set

Serial no.	Member Name	Member ID	Skills
1	M Abdullah	M1	Database analyst, Backend, Documentation, Frontend
2	M Saeed	M2	Documentation, Frontend

2.9. Task and Member Assignment Table

SR NO	Task Name	DURATION (DAYS)	PRECEDENCE
1	Parks and Horticulture Authority	151 days	
2	Chapter 1: Final Project Proposal	17 days	
3	Introduction	1 day	M2
4	Project Title:	1 day	M2
5	Project Overview statement:	1 day	M1
6	Project Goals & Objectives:	3 days	M1
7	High-level system components:	2 days	M2
8	List of optional functional units:	2 days	M1
9	Exclusions:	1 day	M1
10	Application Architecture:	2 days	M1
11	Gantt chart:	3 days	M1,M2
12	Hardware and Software Specification:	1 day	M2
13	Tools and technologies used with reasoning:	3 days	M2
14	Chapter 2: First Deliverable	22 days	1,12
15	Introduction	3 days	M2
16	Project/Product Feasibility Report	4 days	1712
17	Technical Feasibility	1 day	M2
18	Operational Feasibility	1 day	M2
19	Economic Feasibility	1 day	M2
20	Schedule Feasibility	1 day	M2
21	Specification Feasibility	1 day	M2
22	Information Feasibility	1 day	M2
23	Motivational Feasibility	1 day	M2
24		•	M2
25	Legal & Ethical Feasibility	1 day	M1 M1
26	Project/Product Scope	2 days	IVII
27	Project/Product Costing Project Cost Estimation By Function Point	2 days 1 day	M1
28	Analysis Project Cost Estimation by using	1 day	M1
20	COCOMO'81 (Constructive Cost Model)		M1
29	Task Dependency Table	1 day	M1
30	CPM - Critical Path Method	1 day	M1
31	Gantt chart Introduction to Team member and their skill	2 days	M1,M2
32	set	1 day	M1
33	Task and Member Assignment Table	1 day	M1
34	Tools and Technology with reasoning	2 days	M2
35	Vision Document	1 day	M1
36	Risk List	1 day	M1
37	Product Features/ Product Decomposition	1 day	M2
38	Chapter 3: Second Deliverable For Object Oriented Approach	38 days	
39	Introduction	2 days	M2
40	Existing System	2 days	M1
41	Systems Specifications	2 days	M2

42	Context Level Data Flow Diagram:	1 day	M1
43	Scope of the System	2 days	M1
	Summary of Requirements:(Initial	•	
44	Requirements)	1 day	M2
45	^		M2
46	Capture "shall" Statements:	1 day 2 days	M2
47	Allocate Requirements:	1 day	M1
48	Priorities Requirements:	1 day	M1
49	Requirements Traceability Matrix:	2 days	M1
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52	Usecase Description	1 day	M1,M2
52	Chapter 4: Third Deliverable For Object	10 1	
53	Oriented Approach	18 days	
54	Introduction:	2 days	M2
55	Domain Model	4 days	M1
56	System Sequence Diagram	1 day	M2
57	Sequence Diagram	1 day	M2
58	Collaboration Diagram	2 days	M1
59	Operation Contracts	2 days	M1
60	Design Class Diagram	1 day	M1
61	State chart diagram	1 day	M1,M2
62	Data Model	1 day	M2
63	Chapter 5: 2nd & 3rd Deliverable For	13 days	
0.5	structured Approach	13 days	
64	Introduction:	2 days	M2
65	Entity Relationship Diagram:	4 days	M1
66	Data flow diagram (Functional Model)	2 days	M1,M2
67	State Transition Diagram	2 days	M2
68	Architectural design	2 days	M1
69	Component Level Design	1 day	M1
70	Chapter 6: Development	24 days	
71	Database design	12 days	M1
72	Front End Design	4 days	M2
73	Backend Design	8 days	M1
74	Chapter 7: 4th Deliverable (User Interface	8 days	
	Design)	o days	
75	Introduction	1 day	M2
76	Site Maps	2 days	M1
77	Story boards	2 days	M1
78	Navigational maps:	3 days	M2
79	Chapter 8: 5th Deliverable (Software Testing)	11 days	
80	Introduction	1 day	M1
81	Test plan	10 days	M2

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2.10. Tools and Technology with reasoning

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PHP is a general purpose scripting language that is used to web development for server side.

2.10.5 XAMPP

We will use xampp to test work on our own computer without any access to the internet.

2.10.6 Microsoft Project

It is used for the development of Gantt chart which shows all the flow of activities of a project.

2.10.7 Sublime Text (3)

It is a simple text editor that is used for coding of web pages.

2.10.8 JavaScript

Java script is a client side scripting language. It is use for the dynamic working on client side.it make the web page more interactive for users.

2.10.9 J Query

J query is a JavaScript library .It is use for the client side scripting and make the web page more attractive for the user.

2.10.10 BOOTSTRAP

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Bootstrap is a framework of CSS and JavaScript. It is use easily for the making the web pages.

2.10.11 Microsoft Visio

Microsoft Visio is used to create the use cases and organization chart.

2.10.12 Microsoft Project

Microsoft project is used to create the Gantt chart of the project.

2.11. Vision Document

The Vision of this Project is to facilitate the visitors by giving them the information about the parks available in the city and gave them the news about the upcoming events also the construction of the new park or some upgrading in parks. They can also complain about the staff or park that will help the admin .We can also manage the landscaping in this project.

This project will help the supervisors to manage the parks and staff through this project, they can also add the news about the events and they can also view complains of the visitors and send it to the admins if the given complain is valid and the change is acceptable then they can upgrade the park.

The supervisor can also give the duties to the staff and send the reports of the complaint and parks information to the admin then the admin will handle all the problems and also go through the report about the park because all the decision will be made by admin.

The vision of this project is also to make the cities greener, brighter and cleaner by managing the parks and landscaping through this project.

2.12. Risk List

Sr.no	Risk list/name	Description
1	Process	When visitor try to search the parks and if the load is too much then the
2	People	 If the staff does not complete their given work. If the staff member do not come to work due to some emergency.
3	Product	 If website take time to open then the visitor did not view our website. The website may not meet the user expectations then he will leave the website.
4	Technology	 The admin will find it hard to understand it on the start The developer may not understand the new language.

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2.13. Product Features/ Product Decomposition

- 1. This project gives the information about the parks to the visitor
- 2. It gives the news about the upcoming events and ongoing construction.
- 3. The supervisor can manage the staff and also give them the duties of the work they have to done.
- 4. The visitor can complain about the park and staff if they do not work correctly.
- 5. The admin can view complains of visitor about park and if the complaint is efficient then admin can take action and change the park according to visitor complain.

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Chapter 3: Second Deliverable For Object Oriented Approach

3.1 Introduction:

Requirements engineering process provides the appropriate mechanism for understanding what the customer wants, analyzing need, assessing feasibility, negotiating a reasonable solution, specifying the solution unambiguously, validating the specification and managing the requirements as they are transformed into an operational system. The task of capturing, structuring, and accurately representing the user's requirements so that they can be correctly embodied in systems which meet those requirements.

3.1.1 Systems Specifications

The following are the clauses that must be included while describing the system specifications.

3.1.2 Introduction

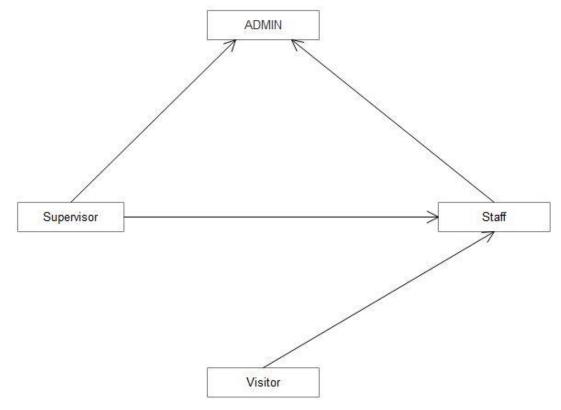
We get this idea from the website of the PHA (Parks and Horticulture Authority) website. We are the first one to make this project, so the whole project is new. Therefore we cannot say that we are adding something new because the whole concept of this project is new.

In this project we manage the parks and help the visitors to know about upcoming events and schedule and also about the staff that is working in the designated parks. It will also help the supervisor to manage the parks and the staff also the landscaping etc., the admin will handle all things about them, so we make the city cleaner brighter and greener.

3.1.3 Existing System

There is no existing system about the PHA (Parks and Horticulture Authority) in Gujranwala City, so this is first time we are working on this topic Where we have for actors that are Admin, Supervisor, Staff and visitor.

3.1.4 Organizational Chart



3.1.5 Scope of the System

In this project we facilitate the visitors by giving them the detail of the parks available in the city and events that are upcoming ales the schedule of the event and the news of upcoming new parks that are under construction they can also complain that will help the supervisor and admin to make changes in the park according to the visitor if that change is valid. So that's why the scope of this project is good.

3.1.6 Summary of Requirements: (Initial Requirements)

Parks and Horticulture much fulfills the initial requirements as follows:

ADMIN:

- Register Park in City
- Manage Staff and manage staff duties
- Manage Nursery
- Manage Events and Manage News
- View Complain
- View Parks
- Approve and Disprove the Park

Park Supervisor:

- Manage Staff and Manage duties
- Manage Reports and Manage Nursery

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- Manage Attendance
- Manage Expenditures
- Vies Contract Detail
- View News
- View Complain Response

Staff:

- View Schedule
- View Park Detail
- Attendance
- View Events
- View News
- View Schedule

Visitor:

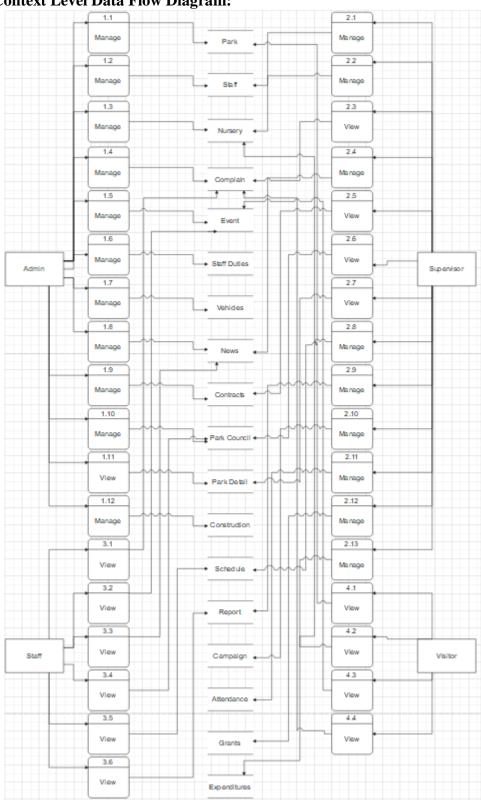
- Add Complain
- View Staff
- View News
- Event Request
- View Events
- View Nursery
- View Park

3.1.7 Identifying External Entities

The Identification of External Entities is done in two phases.

- a. Over Specify Entities from Abstract:
 - 1. Admin
 - 2. Park Supervisor
 - 3. Staff
 - 4. Visitor
 - 5. Register Park
 - 6. Approve and Disprove Park
- **b.** Perform Refinement:
 - 1. Admin
 - 2. Park Supervisor
 - 3. Staff
 - 4. Visitor

3.1.8 Context Level Data Flow Diagram:



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3.1.9 Capture "shall" Statements:

Para #	Initial Requirement
1	Admin "shall" Login
1.1	Admin "shall" view Park detail
1.2	Admin "shall" Register park
1.3	Admin "shall" Edit park
1.4	Admin "shall" Delete park
1.5	Admin "shall" View staff
1.6	Admin "shall" Register staff
1.7	Admin "shall" Edit staff
1.8	Admin "shall" Delete staff
1.9	Admin "shall" view nursery
1.10	Admin "shall" Register Nursery
1.11	Admin "shall" Edit Nursery
1.12	Admin "shall" Delete Nursery
1.13	Admin "shall" View Complain
1.14	Admin "shall" Response of complain
1.15	Admin "shall" View Events
1.16	Admin "shall" Register Events
1.17	Admin "shall" Edit Event
1.18	Admin "shall" Delete Event
1.19	Admin "shall" View staff Duties
1.20	Admin "shall" Asign the duties
1.21	Admin "shall" Edit the duties
1.22	Admin "shall" view Vehicles
1.23	Admin "shall" Register Vehicles
1.24	Admin "shall" Edit Vehicle
1.25	Admin "shall" Delete Vehcile
1.26	Admin "shall" View news
1.27	Admin "shall" Add news
1.28	Admin "shall" Edit news
1.29	Admin "shall" Delete news
1.30	Admin "shall" View Contracts
1.31	Admin "shall" Add new Contract
1.32	Admin "shall" Edit Contract
1.33	Admin "shall" Delete Contract
1.34	Admin "shall" View Park Council
1.35	Admin "shall" Add Park Council
1.36	Admin "shall" Edit Park council

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1.37	Admin "shall" delete Park Council
1.38	Admin "shall" view construction
1.40	Admin "shall" Logout
2	Supervisor "shall" login
2.1	Supervisor "shall" view Staff
2.2	Supervisor "shall" Register Staff
2.3	Supervisor "shall" Edit Staff
2.4	Supervisor "shall" Delete Staff
2.5	Supervisor "shall" View Nursery
2.6	Supervisor "shall" Register Nursery
2.7	Supervisor "shall" Edit Nursery
2.8	Supervisor "shall" Delete Nursery
2.9	Supervisor "shall" view Complain
2.10	Supervisor "shall" view News
2.11	Supervisor "shall" Add news
2.12	Supervisor "shall" Edit News
2.13	Supervisor "shall" Delete News
2.14	Supervisor "shall" View Contracts
2.15	Supervisor "shall" view Council
2.16	Supervisor "shall" View Parks detail
2.17	Supervisor "shall" View Schedule
2.18	Supervisor "shall" Add schedule
2.19	Supervisor "shall" Edit schedule
2.20	Supervisor "shall" Delete Schedule
2.21	Supervisor "shall" View reports
2.22	Supervisor "shall" add reports
2.23	Supervisor "shall" Edit Reports
2.24	Supervisor "shall" Delete Reports
2.25	Supervisor "shall" View Campaign
2.26	Supervisor "shall" Add Campaign
2.27	Supervisor "shall" Edit Campaign
2.28	Supervisor "shall" Delete Campaign
2.29	Supervisor "shall" view attendance
2.30	Supervisor "shall" View Grants
2.31	Supervisor "shall" Add Grants
2.32	Supervisor "shall" Edit Grants
2.33	Supervisor "shall" Delete Grants
2.34	Supervisor "shall" View expenditures
2.35	Supervisor "shall" Add expenditures
2.36	Supervisor "shall" Edit Expenditures
2.37	Supervisor "shall" Delete Expenditures

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2.38	Supervsisor "shall" View Evnets				
2.39	Supervisor "shall" view Staff Duties				
2.40	Supervsior "shall" Logout				
3	Staff "shall" Login				
3.1	Staff "shall" View Schedule				
3.2	Staff "shall" view Reports				
3.3	Staff "shall" View Complain				
3.4	Staff "shall" View Events				
3.5	Staff "shall" View News				
3.6	Staff "shall" View park Council				
3.7	Staff "shall" add Attendance				
3.8	Staff "shall" View Staff Duties				
3.9	Staff "shall" Logout				
4	Visitor:				
4.1	Visitor "shall" add complain				
4.3	Visitor "shall" View News				
4.4	Visitor "shall" Event request				
4.5	Visitor "shall" View Events				
4.6	Visitor "shall" View nursery				
4.7	Visitor "shall" view parks				
4.8	Visitor "shall" View Complain				

3.1.10 Allocate Requirements:

Para	initial Requirement	Usecase_Nmae	
1.0	Admin "shall" Login	UC_Login	
2.0	Supervisor "shall" Login	UC_Login	
3.0	Staff "shall" login	UC_Login	
1.1	Admin "shall" View park detail	UC_View_park_Detail	
2.16	Supervisor "shall" View Park Detail	UC_View_park_Detail	
1.2	Admin "shall" Register Park	UC_Register_Park	
1.3	Admin "shall" Edit Park	UC_Edit_Park	
1.4	Admin "shall" Delete park	UC_Delete_park	
1.5	Admin "shall" View Staff	UC_View_Staff	
2.1	Supervisor "shall" View Staff	UC_View_Staff	
1.6	Admin "shall" Register Staff	UC_Register_Staff	
2.2	Supervisor "shall" Register Staff	UC_Register_Staff	
1.7	Admin "shall" Edit Staff	UC_Edit_Staff	
2.3	Supervisor "shall" Edit Staff	UC_Edit_Staff	
1.8	Admin "shall" Delete Staff	UC_Delete_Staff	
2.4	Supervisor "shall" Delete Staff	UC_Delete_Staff	
1.9	9 Admin "shall" View Nursery UC_View_Nursery		

2.5	Supervisor "shall" View Nursery	UC_View_Nursery	
4.6	Visitor "shall" View Nursery	UC_View_Nursery	
1.10	Admin "shall" Register Nursery	UC_Register_Nursery	
2.6	Supervisor "shall" Register Nursery	UC_Register_Nursery	
1.11	Admin "shall" Edit Nursery	UC_Edit_Nursery	
2.7	Supervisor "shall" Edit Nursery	UC_Edit_Nursery	
1.12	Admin "shall" Delete Nursery	UC_Delete_Nursery	
2.8	Supervisor "shall" Delete Nursery	UC_Delete_Nursery	
1.13	Admin "shall" View Complain	UC_View_Complain	
2.9	Supervisor "shall" View Complain	UC_View_Complain	
3.3	Staff "shall" View Complain	UC_View_Complain	
4.8	Visitor "shall" View Complain	UC_View_Complain	
1.14	Admin "shall" Response the complain	UC_Response_the_Complain	
1.15	Admin "shall" View Events	UC_View_Event	
2.38	Supervisor "shall" View Events	UC_View_Event	
3.4	Supervisor "shall" View Events	UC_View_Event	
4.5	Visitor "shall" View Events	UC_View_Event	
1.16	Admin "shall" Register Event	UC_Register_Event	
1.17	Admin "shall" Edit Event	UC_Edit_Event	
1.18	Admin "shall" Delete Event	UC_Delete_Event	
1.19	Admin "shall" View Staff Duties	UC_View_Staff_Duties	
2.39	Supervisor "shall" View Staff Duties	UC_View_Staff_Duties	
3.8	Visitor "shall" View Staff Duties	UC_View_Staff_Duties	
1.20	Admin "shall" Assign Duties	UC_Asign_Duties	
1.21	Admin "shall" Edit Duties	UC_Edit_Duties	
1.22	Admin "shall" View Vehicles	UC_View_Vehciles	
1.23	Admin "shall" Register Vehicles	UC_Register_Vehciles	
1.24	Admin "shall" Edit Vehicles	UC_Edit_Vehciles	
1.25	Admin "shall" Delete Vehicles	UC_Delete_Vehciles	
1.26	Admin "shall" View News	UC_View_News	
2.10	Supervisor "shall" View News	UC_View_News	
3.5	Staff "shall" View News	UC_View_News	
4.3	Visitor "shall" View News	UC_View_News	
1.27	Admin "shall" Add News	UC_Add_News	
2.11	Supervisor "shall" Add News	UC_Add_News	
1.28	Admin "shall" Edit News	UC_Edit_News	
2.12	Supervisor "shall" Edit News	UC_Edit_News	
1.29	Admin "shall" Delete News	UC_Delete_News	
2.13	Supervisor "shall" Delete News	UC_Delete_News	
1.30	Admin "shall" View Contract	UC_View_contract	
2.14	Supervisor "shall" View Contract	UC_View_contract	

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1.31	Admin "shall" Add Contract	UC_Add_Contract
1.32	Admin "shall" Edit Contract	UC_Edit_Contract
1.33	Admin "shall" Delete Contract	UC_Delete_Contract
1.34	Admin "shall" View Park Council	UC_View_Park_Council
2.15	Supervisor "shall" View Park Council	UC_View_Park_Council
3.6	Staff "shall" View Park Council	UC_View_Park_Council
1.35	Admin "shall" Add Park Council	UC_Add_Park_Council
1.36	Admin "shall" Edit Park Council	UC_Edit_Park_Council
1.37	Admin "shall" Delete Park Council	UC_Delete_Park_Council
1.38	Admin "shall" View Construction	UC_View_Construction
2.17	Supervisor "shall" View Schedule	UC_View_Schedule
3.1	Staff "shall" View Schedule	UC_View_Schedule
2.18	Supervisor "shall" Add Schedule	UC_Add_Schedule
2.19	Supervisor "shall" Edit Schedule	UC_Edite_Schedule
2.20	Supervisor "shall" Delete Schedule	UC_Delete_Schedule
2.21	Supervisor "shall" View Report	UC_View_Report
3.2	Staff "shall" View Report	UC_View_Report
2.22	Supervisor "shall" Add Report	UC_Add_report
2.23	Supervisor "shall" Edit Report	UC_Edit_report
2.24	Supervisor "shall" Delete Report	UC_Delete_report
2.25	Supervisor "shall" View Campaign	UC_View_Campaign
2.26	Supervisor "shall" Add Campaign	UC_Add_Campaign
2.27	Supervisor "shall" Edit Campaign	UC_Edit_Campaign
2.28	Supervisor "shall" Delete Campaign	UC_Delete_Campaign
2.29	Supervisor "shall" View Attendance	UC_View_Attendance
2.30	Supervisor "shall" View Grants	UC_View_Grants
2.31	Supervisor "shall" Add Grants	UC_Add_Grants
2.32	Supervisor "shall" Edit Grants	UC_Edit_Grants
2.33	Supervisor "shall" Delete Grants	UC_Delete_Grants
2.34	Supervisor "shall" View Expenditures	UC_View_Expenditures
2.35	Supervisor "shall" Add Expenditures	UC_Add_Expenditures
2.36	Supervisor "shall" Edit Expenditures	UC_Edit_Expenditures
2.37	Supervisor "shall" Delete Expenditures	UC_Delete_Expenditures
3.7	Staff "shall" Add Attendance	UC_Add_Attendance
4.1	Visitor "shall" Add Complain	UC_Add_Complain
4.4	Visitor "shall" Event Request	UC_Event_Request
4.7	Visitor "shall" view Parks	UC_View_Parks
1.39	Admin "shall" Logout	UC_Logout
2.40	Supervisor "shall" Logout	UC_Logout
3.9	Staff "shall" Logout	UC_Logout

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3.1.11 Prioritize Requirements:

3.1.11 Prioritize Requirements:				
para	Rank	initial Requirment	Usecase_Nmae	Usecase_ID
1	Highest	Admin"shall" Login	UC_Login	UC_3.1.15.1
2	Highest	Supervisor "shall" Logim	UC_Login	UC_3.1.15.1
3	Highest	Staff "shall" login	UC_Login	UC_3.1.15.1
		Admin "shall" View park		
1.1	Medium	detail	UC_View_park_Detail	UC_3.1.15.2
		Supervisor "shall" View		
2.16	Medium	Park Detail	UC_View_park_Detail	UC_3.1.15.2
		Admin "shall" Register		
1.2	Highest	Park	UC_Register_Park	UC_3.1.15.3
1.3	Highest	Admin "shall" Edit Park	UC_Edit_Park	UC_3.1.15.4
1.4	Lowest	Admin "shall" Delete park	UC_Delete_park	UC_3.1.15.5
1.5	Medium	Admin "shall" View Staff	UC_View_Staff	UC_3.1.15.6
		Supervisor "shall" View		
2.1	Medium	Staff	UC_View_Staff	UC_3.1.15.6
		Admin"shall" Registor		
1.6	Highest	Staff	UC_Register_Staff	UC_3.1.15.7
		Supervisor "shall" Register	HC B 11 5 5	110 0 1 1 = =
2.2	Highest	Staff	UC_Register_Staff	UC_3.1.15.7
1.7	Highest	Admin "shall" Edit Staff	UC_Edit_Staff	UC_3.1.15.8
		Supervisor "shall" Edit	110 Edit 6: "	110 0 1 1 - 1
2.3	Highest	Staff	UC_Edit_Staff	UC_3.1.15.8
1.8	Lowest	Admin "shall" Delete Staff	UC_Delete_Staff	UC_3.1.15.9
	1	Supervisor "shall" Delete	HC Delete Co. C	110 24 45 2
2.4	Lowest	Staff	UC_Delete_Staff	UC_3.1.15.9
1 0	Modium	Admin "shall" View	IIC View Nurcery	IIC 211E10
1.9	Medium	Nursery Supervisor "shall" View	UC_View_Nursery	UC_3.1.15.10
2.5	Medium	Nursery	UC_View_Nursery	UC 3.1.15.10
۷.۵	ivicululli	Visitor "shall" View	OC_VICVV_INUISETY	00_3.1.13.10
4.6	Medium	Nursery	UC_View_Nursery	UC_3.1.15.10
0	uiuiii	Admin "shall" Register	, , , , , , , , , , , , , , , , , , ,	
1.1	Highest	Nursery	UC_Register_Nursery	UC_3.1.15.11
	J	Supervisor "shall" Register		_ ===
2.6	Medium	Nursery	UC_Register_Nursery	UC_3.1.15.11
1.11	Highest	Admin "shall" Edit Nursery	UC_Edit_Nursery	UC_3.1.15.12
		Supervisor "shall" Edit	'	_
2.7	Highest	Nursery	UC_Edit_Nursery	UC_3.1.15.12
		Admin "shall" Delete		
1.12	Lowest	Nursery	UC_Delete_Nursery	UC_3.1.15.13
		Supervisor "shall" Delete		
2.8	Lowest	Nursery	UC_Delete_Nursery	UC_3.1.15.13
		Admin "shall" View		
1.13	Medium	Complain	UC_View_Complain	UC_3.1.15.14

		Supervisor "shall" View		
2.9	Medium	Complain	UC_View_Complain	UC_3.1.15.14
		Staff "shall" View		_
3.3	Medium	Complain	UC_View_Complain	UC_3.1.15.14
		Visitor "shall" View		
4.8	Medium	Complain	UC_View_Complain	UC_3.1.15.14
		Admin "shall" Response		
1.14	Highest	the complain	UC_Response_the_Complain	UC_3.1.15.15
1.15	Medium	Admin "shall" Vew Events	UC_View_Event	UC_3.1.15.16
		Supervisor "shall" Vew		
2.38	Medium	Events	UC_View_Event	UC_3.1.15.16
		Supervisor "shall" Vew		
3.4	Medium	Events	UC_View_Event	UC_3.1.15.16
4.5	Medium	Visitor "shall" Vew Events	UC_View_Event	UC_3.1.15.16
		Admin "shall" Register		
1.16	Highest	Event	UC_Register_Event	UC_3.1.15.17
1.17	Highest	Admin "shall" Edit Event	UC_Edit_Event	UC_3.1.15.18
		Admin "shall" Delete		
1.18	Lowest	Event	UC_Delete_Event	UC_3.1.15.19
		Admin "shall" View Staff		
1.19	Medium	Duties	UC_View_Staff_Duties	UC_3.1.15.20
		Supervisor "shall" View		
2.39	Medium	Staff Duties	UC_View_Staff_Duties	UC_3.1.15.20
2.0	Medium	Visitor "shall" View Staff	LIC View Staff Duties	UC 2 1 1F 20
3.8		Duties	UC_View_Staff_Duties	UC_3.1.15.20
1.2	Highest	Admin "shall" Asign Duties	UC_Asign_Duties	UC_3.1.15.21
1.21	Highest	Admin "shall" Edit Duties	UC_Edit_Duties	UC_3.1.15.22
4 22	N A a alii a	Admin "shall" View	LIC View Veheilee	116 2 4 45 22
1.22	Medium	Vehicles	UC_View_Vehciles	UC_3.1.15.23
1.23	Highest	Admin "shall" Register Vehicles	LIC Posistor Vahsilas	UC_3.1.15.24
			UC_Register_Vehciles	_
1.24	nignest	Admin "shall" Edit Vehicles Admin "shall" Delete	OC_Edit_venciles	UC_3.1.15.25
1.25	Lowest	Vehicles	UC Delete Vehciles	UC_3.1.15.26
		Admin "shall" View News		_
1.26	Medium	Supervisor "shall" View	UC_View_News	UC_3.1.15.27
2.1	Medium	News	UC View News	UC_3.1.15.27
3.5	Medium	Staff "shall" View News	UC_View_News	UC_3.1.15.27
				_
4.3	Medium	Visitor "shall" View News	UC_View_News	UC_3.1.15.27
1.27	Highest	Admin "shall" Add News	UC_Add_News	UC_3.1.15.28
2 11	Highast	Supervisor "shall" Add	LIC Add Noves	110 2 1 15 20
2.11	Highest	News	UC_Add_News	UC_3.1.15.28
1.28	Highest	Admin "shall" Edit News	UC_Edit_News	UC_3.1.15.29
2.12	Modium	Supervisor "shall" Edit	LIC Edit Nove	110 2 1 15 20
2.12	Medium	News	UC_Edit_News	UC_3.1.15.29

1.29	Lowest	Admin "shall" Delete News	UC_Delete_News	UC_3.1.15.30
		Supervisor "shall" Delete		
2.13	Lowest	News	UC_Delete_News	UC_3.1.15.30
		Admin "shall" View		
1.3	Medium	Contract	UC_View_contract	UC_3.1.15.31
		Supervisor "shall" View		
2.14	Medium	Contract	UC_View_contract	UC_3.1.15.31
		Admin "shall" Add		
1.31	Highest	Contract	UC_Add_Contract	UC_3.1.15.32
		Admin "shall" Edit		
1.32	Highest	Contract	UC_Edit_Contract	UC_3.1.15.33
		Admin "shall" Delete		
1.33	Lowest	Contract	UC_Delete_Contract	UC_3.1.15.34
		Admin "shall" View Park		
1.34	Medium	Council	UC_View_Park_Council	UC_3.1.15.35
		Supervisor "shall" View		
2.15	Medium	Park Council	UC_View_Park_Council	UC_3.1.15.35
		Staff "shall" View Park		
3.6	Medium	Council	UC_View_Park_Council	UC_3.1.15.35
		Admin "shall" Add Park		
1.35	Highest	Council	UC_Add_Park_Council	UC_3.1.15.36
		Admin "shall" Edit Park		
1.36	Highest	Council	UC_Edit_Park_Council	UC_3.1.15.37
		Admin "shall" Delete Park		
1.37	Lowest	Council	UC_Delete_Park_Council	UC_3.1.15.38
		Admin "shall" View		
1.38	Highest	Construction	UC_View_Construction	UC_3.1.15.39
		Supervisor "shall" View		
2.17	Medium	Schedule	UC_View_Schedule	UC_3.1.15.40
		Staff "shall" View		
3.1	Medium	Schedule	UC_View_Schedule	UC_3.1.15.40
		Supervisor "shall" Add		
2.18	Highest	Schedule	UC_Add_Schedule	UC_3.1.15.41
		Supervisor "shall" Edit		
2.19	Medium	Schedule	UC_Edite_Schedule	UC_3.1.15.42
		Supervisor "shall" Delete		
2.2	Lowest	Schedule	UC_Delete_Schedule	UC_3.1.15.43
		Supervisor "shall" View		
2.21	Medium	Report	UC_View_Report	UC_3.1.15.44
3.2	Lowest	Staff "shall" View Report	UC_View_Report	UC_3.1.15.44
		Supervisor "shall" Add		
2.22	Highest	Report	UC_Add_report	UC_3.1.15.45
		Supervisor "shall" Edit		
2.23	Highest	Report	UC_Edit_report	UC_3.1.15.46
		Supervisor "shall" Delete		
2.24	Lowest	Report	UC_Delete_report	UC_3.1.15.47

		Supervisor "shall" View		
2.25	Medium	Campaign	UC View Campaign	UC 3.1.15.48
		Supervisor "shall" Add		_
2.26	Highest	Campaign	UC_Add_Campaign	UC 3.1.15.49
		Supervisor "shall" Edit		_
2.27	Highest	Campaign	UC_Edit_Campaign	UC_3.1.15.50
		Supervisor "shall" Delete		
2.28	Lowest	Campaign	UC_Delete_Campaign	UC_3.1.15.51
		Supervisor "shall" View		
2.29	Medium	Attendance	UC_View_Attendance	UC_3.1.15.52
		Supervisor "shall" View		
2.3	Medium	Grants	UC_View_Grants	UC_3.1.15.53
		Supervisor "shall" Add		
2.31	Highest	Grants	UC_Add_Grants	UC_3.1.15.54
		Supervisor "shall" Edit		
2.32	Highest	Grants	UC_Edit_Grants	UC_3.1.15.55
		Supervisor "shall" Delete		
2.33	Lowest	Grants	UC_Delete_Grants	UC_3.1.15.56
		Supervisor "shall" View		
2.34	Medium	Expenditures	UC_View_Expenditures	UC_3.1.15.57
		Supervisor "shall" Add		
2.35	Highest	Expenditures	UC_Add_Expenditures	UC_3.1.15.58
		Supervisor "shall" Edit		
2.36	Medium	Expenditures	UC_Edit_Expenditures	UC_3.1.15.59
		Supervisor "shall" Delete		
2.37	Lowest	Expenditures	UC_Delete_Expenditures	UC_3.1.15.60
		Staff "shall" Add		
3.7	Lowest	Attendance	UC_Add_Attendance	UC_3.1.15.61
		Visitor "shall" Add		
4.1	Highest	Complain	UC_Add_Complain	UC_3.1.15.62
		Visitor "shall" Event		
4.4	Lowest	Request	UC_Event_Request	UC_3.1.15.63
4.7	Medium	Visitor "shall" view Parks	UC_View_Parks	UC_3.1.15.64
1.4	Highest	Admin "shall" Logout	UC_Logout	UC_3.1.15.65
2.4	Highest	Supervisor "shall" Logout	UC_Logout	UC_3.1.15.65
3.9	Highest	Staff "shall" Logout	UC_Logout	UC_3.1.15.65

3.1.12 Requirements Trace-ability Matrix:

Sr.No	para	Build	initial Requirment	Usecase_Nmae	Category
1	1	B1	Admin"shall" Login	UC_Login	Business
			Supervisor "shall"		
2	2	B1	Logim	UC_Login	Business
3	3	B1	Staff "shall" login	UC_Login	Business
			Admin "shall" View		
4	1.1	B1	park detail	UC_View_park_Detail	Business

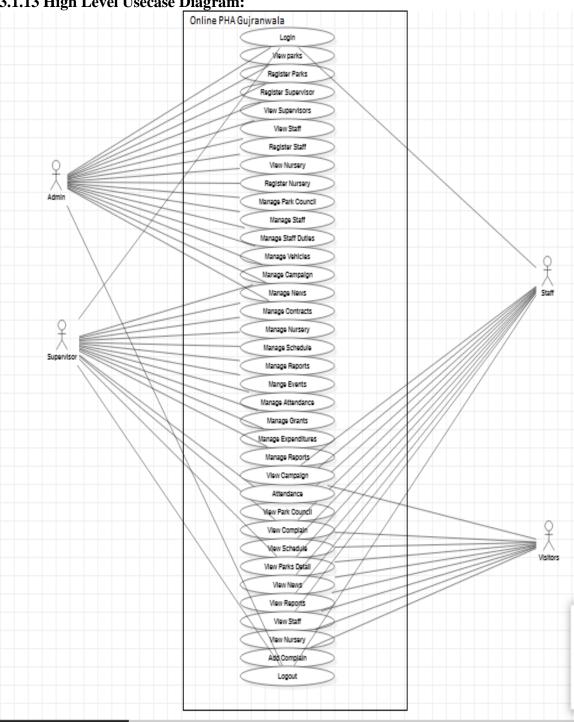
		Ī	Supervisor "shall" View		1
5	2.16	B1	Park Detail	UC_View_park_Detail	Business
			Admin "shall" Register		200
6	1.2	B1	Park	UC_Register_Park	Business
7	1.3	B1	Admin "shall" Edit Park	UC Edit Park	Business
,	1.5	<u> </u>	Admin "shall" Delete	OC_EGIC_I GIK	Business
8	1.4	B1	park	UC_Delete_park	Business
			Admin "shall" View	oo_belete_park	Business
9	1.5	B1	Staff	UC_View_Staff	Business
			Supervisor "shall" View	0 0_11011_01011	200
10	2.1	B1	Staff	UC_View_Staff	Business
			Admin"shall" Registor		
11	1.6	B1	Staff	UC_Register_Staff	Business
			Supervisor "shall"		
12	2.2	B1	Register Staff	UC_Register_Staff	Business
13	1.7	B1	Admin "shall" Edit Staff	UC Edit Staff	Business
			Supervisor "shall" Edit	00_2410_04411	Business
14	2.3	B1	Staff	UC_Edit_Staff	Business
			Admin "shall" Delete		
15	1.8	B1	Staff	UC Delete Staff	Business
			Supervisor "shall"		
16	2.4	B1	Delete Staff	UC_Delete_Staff	Business
			Admin "shall" View		
17	1.9	B1	Nursery	UC_View_Nursery	Business
			Supervisor "shall" View		
18	2.5	B1	Nursery	UC_View_Nursery	Business
			Visitor "shall" View		
19	4.6	B1	Nursery	UC_View_Nursery	Business
			Admin "shall" Register		
20	1.1	B1	Nursery	UC_Register_Nursery	Business
			Supervisor "shall"		
21	2.6	B1	Register Nursery	UC_Register_Nursery	Business
			Admin "shall" Edit		
22	1.11	B1	Nursery	UC_Edit_Nursery	Business
			Supervisor "shall" Edit		
23	2.7	B1	Nursery	UC_Edit_Nursery	Business
			Admin "shall" Delete		
24	1.12	B1	Nursery	UC_Delete_Nursery	Business
25	2.0	D4	Supervisor "shall"	LIC Balata N. sasa	D
25	2.8	B1	Delete Nursery Admin "shall" View	UC_Delete_Nursery	Business
26	1.13	B1	Complain	UC_View_Complain	Business
20	1.13	DI	Supervisor "shall" View	oc_view_complain	מאוובא
27	2.9	B1	Complain	UC View Complain	Business
	۷.5	DI	Staff "shall" View	CC_view_complain	Dusiness
28	3.3	B1	Complain	UC_View_Complain	Business
	٥.٥	D.7	Complain	CC_vicw_complain	בטוווכטט

1			Visitor "shall" View	I	
29	4.8	B1	Complain	UC View Complain	Business
23	7.0	DI	Admin "shall"	oc_vicw_complain	Dusiness
30	1.14	B1	Response the complain	UC_Response_the_Complain	Business
30	1.1	<u> </u>	Admin "shall" Vew	oe_nesponse_trie_complain	Business
31	1.15	B1	Events	UC_View_Event	Business
31	1.13	D1	Supervisor "shall" Vew	OC_VIEW_EVENT	Dusiness
32	2.38	B1	Events	UC View Event	Business
32	2.30	<u> </u>	Supervisor "shall" Vew	OC_VIEW_EVENT	Business
33	3.4	B1	Events	UC_View_Event	Business
- 55	3		Visitor "shall" Vew	00_11011_110111	243111633
34	4.5	B1	Events	UC View Event	Business
0.			Admin "shall" Register		2 0.0111000
35	1.16	B1	Event	UC_Register_Event	Business
			Admin "shall" Edit		
36	1.17	B1	Event	UC_Edit_Event	Business
			Admin "shall" Delete		
37	1.18	B1	Event	UC_Delete_Event	Business
			Admin "shall" View		
38	1.19	B1	Staff Duties	UC View Staff Duties	Business
			Supervisor "shall" View		
39	2.39	B1	Staff Duties	UC_View_Staff_Duties	Business
			Visitor "shall" View		
40	3.8	B1	Staff Duties	UC_View_Staff_Duties	Business
			Admin "shall" Asign		
41	1.2	B1	Duties	UC_Asign_Duties	Business
			Admin "shall" Edit		
42	1.21	B1	Duties	UC_Edit_Duties	Business
			Admin "shall" View		
43	1.22	B1	Vehicles	UC_View_Vehciles	Business
			Admin "shall" Register		
44	1.23	B1	Vehicles	UC_Register_Vehciles	Business
			Admin "shall" Edit		
45	1.24	B1	Vehicles	UC_Edit_Vehciles	Business
			Admin "shall" Delete		
46	1.25	B1	Vehicles	UC_Delete_Vehciles	Business
			Admin "shall" View		
47	1.26	B1	News	UC_View_News	Business
			Supervisor "shall" View		
48	2.1	B1	News	UC_View_News	Business
49	3.5	B1	Staff "shall" View News	UC_View_News	Business
			Visitor "shall" View		
50	4.3	B1	News	UC_View_News	Business
			Admin "shall" Add		
51	1.27	B1	News	UC_Add_News	Business

			Supervisor "shall" Add		1
52	2.11	B1	News	UC_Add_News	Business
			Admin "shall" Edit		
53	1.28	B1	News	UC_Edit_News	Business
			Supervisor "shall" Edit		
54	2.12	B1	News	UC_Edit_News	Business
<u> </u>			Admin "shall" Delete	00_2416_116113	Business
55	1.29	B1	News	UC Delete News	Business
- 55	1.23		Supervisor "shall"	oc_belete_items	Business
56	2.13	B1	Delete News	UC_Delete_News	Business
- 50	2.120		Admin "shall" View	oc_belete_items	Business
57	1.3	B1	Contract	UC View contract	Business
37	1.5	D1	Supervisor "shall" View	OC_VIEW_CONTINUE	Dusiness
58	2.14	B1	Contract	UC_View_contract	Business
30	2.17	D1	Admin "shall" Add	OC_VIEW_CONTINUE	Dusiness
59	1.31	B1	Contract	UC Add Contract	Business
33	1.51	DI	Admin "shall" Edit	OC_Add_Contract	Dusiness
60	1.32	B1	Contract	UC_Edit_Contract	Business
00	1.52	DI	Admin "shall" Delete	OC_Edit_Contract	Dusiness
61	1.33	B1	Contract	UC Delete Contract	Business
01	1.33	DI	Admin "shall" View	OC_Delete_Contract	Dusiness
62	1.34	B1	Park Council	UC_View_Park_Council	Business
02	1.54	DI	Supervisor "shall" View	OC_VIEW_Park_Council	Dusilless
63	2.15	B1	Park Council	LIC View Bark Council	Business
03	2.13	DI	Staff "shall" View Park	UC_View_Park_Council	Dusilless
64	3.6	B1	Council	LIC View Bark Council	Pusinoss
04	5.0	DI	Admin "shall" Add Park	UC_View_Park_Council	Business
65	1.35	B1	Council	LIC Add Bark Council	Business
0.5	1.33	DI	Admin "shall" Edit Park	UC_Add_Park_Council	Dusilless
66	1.36	B1	Council	LIC Edit Bark Council	Business
00	1.30	DI	Admin "shall" Delete	UC_Edit_Park_Council	Dusilless
67	1 27	B1		LIC Delete Bark Council	Pusinoss
07	1.37	DI	Park Council Admin "shall" View	UC_Delete_Park_Council	Business
68	1.38	B1	Construction	UC View Construction	Business
00	1.50	DI	Supervisor "shall" View	OC_view_construction	business
60	2 17	D1	Schedule	LIC View Schodule	Dusinoss
69	2.17	B1		UC_View_Schedule	Business
70	2.1	D1	Staff "shall" View	LIC View Sehedule	Ducinosa
70	3.1	B1	Schedule	UC_View_Schedule	Business
71	2.10	D1	Supervisor "shall" Add	LIC Add Cabadula	Ducinosa
71	2.18	B1	Schedule	UC_Add_Schedule	Business
72	2 10	B1	Supervisor "shall" Edit	LIC Edito Schodulo	Pusinoss
72	2.19	ΒŢ	Schedule	UC_Edite_Schedule	Business
72	2.2	D1	Supervisor "shall" Delete Schedule	LIC Doloto Cobadula	Dusinoss
73	2.2	B1		UC_Delete_Schedule	Business
74	2 21	B1	Supervisor "shall" View Report	UC View Report	Pusinoss
/4	2.21	DI	report	oc_view_keport	Business

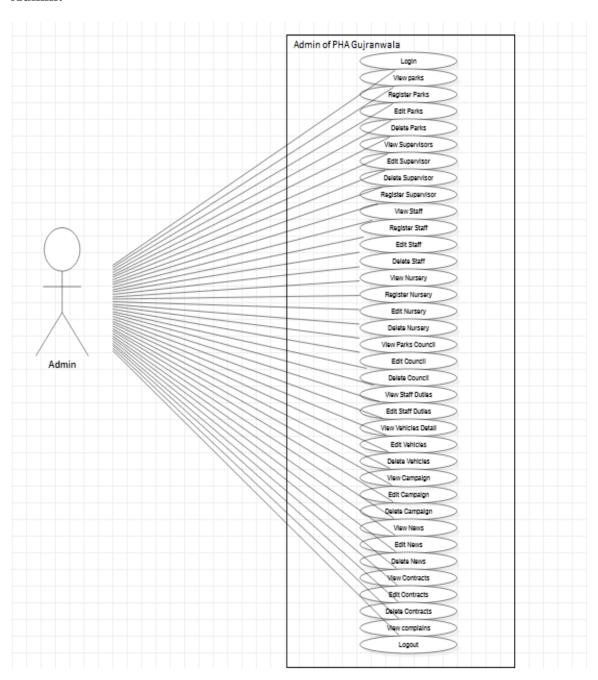
			Staff "shall" View		
75	3.2	B1	Report	UC_View_Report	Business
,,,			Supervisor "shall" Add		
76	2.22	B1	Report	UC_Add_report	Business
,,,		51	Supervisor "shall" Edit		Business
77	2.23	B1	Report	UC_Edit_report	Business
,,,	2.23	DI	Supervisor "shall"	CC_Edit_Teport	Dusiness
78	2.24	B1	Delete Report	UC Delete report	Business
76	2.27	DI	Supervisor "shall" View	OC_Delete_report	Du3ii1C33
79	2.25	B1	Campaign	UC_View_Campaign	Business
7.5	2.23	DI	Supervisor "shall" Add	OC_VIEW_Campaign	Dusiness
80	2.26	B1	Campaign	UC_Add_Campaign	Business
80	2.20	DI	Supervisor "shall" Edit	OC_Add_Callipaigii	Dusiness
81	2.27	B1	Campaign	UC_Edit_Campaign	Business
01	2.27	DI	Supervisor "shall"	OC_Edit_Callipaigii	Dusilless
82	2.28	B1	Delete Campaign	LIC Delete Campaign	Business
02	2.20	DI		UC_Delete_Campaign	Dusilless
02	2 20	B1	Supervisor "shall" View Attendance	LIC View Attendance	Dusinoss
83	2.29	ВŢ		UC_View_Attendance	Business
0.4	2.2	D4	Supervisor "shall" View	IIC Views Counts	D
84	2.3	B1	Grants	UC_View_Grants	Business
0.5	2 24	D.4	Supervisor "shall" Add		
85	2.31	B1	Grants	UC_Add_Grants	Business
0.0			Supervisor "shall" Edit		
86	2.32	B1	Grants	UC_Edit_Grants	Business
07	2 22	D.4	Supervisor "shall"		
87	2.33	B1	Delete Grants	UC_Delete_Grants	Business
			Supervisor "shall" View		
88	2.34	B1	Expenditures	UC_View_Expenditures	Business
			Supervisor "shall" Add		
89	2.35	B1	Expenditures	UC_Add_Expenditures	Business
			Supervisor "shall" Edit		
90	2.36	B1	Expenditures	UC_Edit_Expenditures	Business
	•		Supervisor "shall"		
91	2.37	B1	Delete Expenditures	UC_Delete_Expenditures	Business
			Staff "shall" Add		
92	3.7	B1	Attendance	UC_Add_Attendance	Business
			Visitor "shall" Add		
93	4.1	B1	Complain	UC_Add_Complain	Business
	_		Visitor "shall" Event		
94	4.4	B1	Request	UC_Event_Request	Business
			Visitor "shall" view		
95	4.7	B1	Parks	UC_View_Parks	Business
96	1.4	B1	Admin "shall" Logout	UC_Logout	Business
			Supervisor "shall"		
97	2.4	B1	Logout	UC_Logout	Business
98	3.9	B1	Staff "shall" Logout	UC_Logout	Business



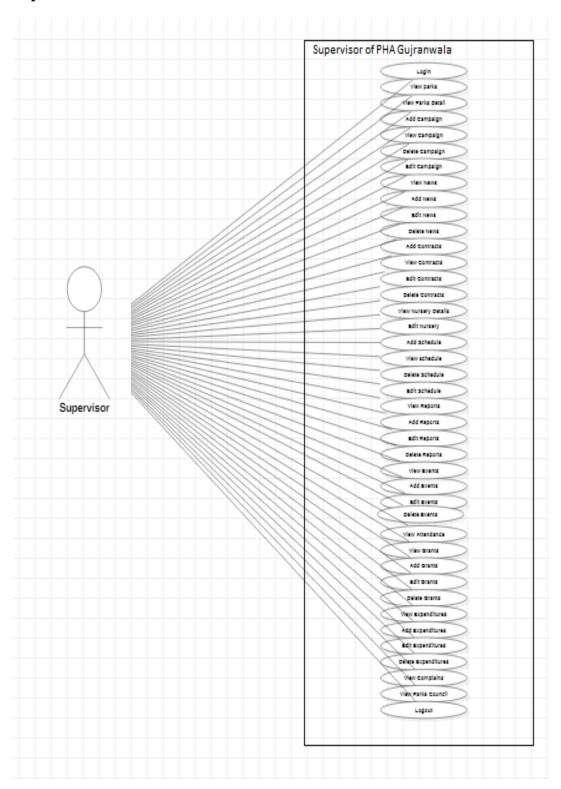


3.1.14 Analysis Level Usecase Diagram:

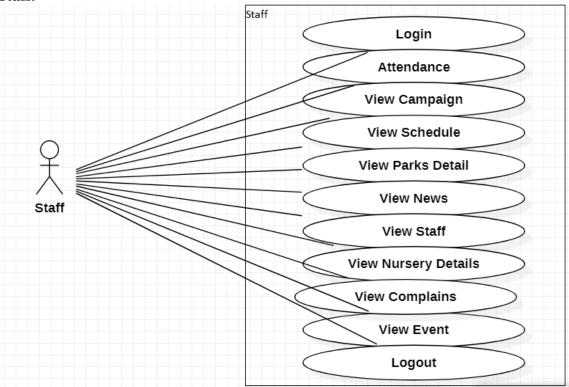
Admin:



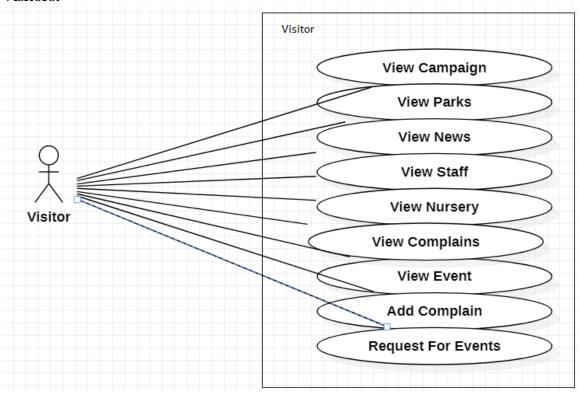
Supervisor:



Staff:



Visitors:



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3.1.15. Usecase Description						
	UC_3.1.15.1:Login					
Actors:		Member(Admin, Superviso	or, Staff)			
Feature:		Member can Lgoin				
Use case	Id:	UC_3.1.15.1				
Pre-cond	lition:	Member should Registe	er			
Scenario	s:					
Step#	Acti	on	Software Reaction			
1.	page		System will show the Login page			
2.	Men subn	nber will enter data and nit	System will validate and verify login page			
Alternat	e Scenari	os:				
		lity of system, it will display	_			
Post Cor	ditions:					
Step#	Step# Description					
1.	Men	nber has successfully login.				

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	UC_3.1.15.2:View_Park_Detail					
Actors:		Member(Admin, Supervisor)				
Feature): :	Member can view pa	ark detail			
Use cas	e Id:	UC_3.1.15.2				
Pre-con	dition:	Member should be login first.				
Scenari	os:					
Step#	Action		Software Reaction			
1.		mber will request for w park detail	System will show Park detail page			
Alterna	te Scena	arios:				
	The page is not loaded correctly. Page will crash.					
Post Conditions:						
Step#	Description					
2.	Member has successfully View the park detail page.					

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	UC_3.1.15.3:Register_Park					
Actors:		Member(Admin)				
Feature	:	Member will open the	e park registration form			
Use case	e Id:	UC_3.1.15.3				
Pre-con	dition:	Member have to login	ı first			
Scenario	os:					
Step#	Act	ion	Software Reaction			
1.		mber will click on the ster park button	System will show the form of park registration			
2.	Member will		System will register the park			
Alterna	te Scena	rios:				
If the data is	If the data is not enter in any given block then it will show error to fill out it					
Post Conditions:						
Step#	ep# Description					
3.	Member has successfully Register park.					

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UC_3.1.15.4:Edit_Park		
Actors: Member(Admin)		
Feature:	Member will edit the park detail	
Use case Id:	UC_3.1.15.4	
Pre-condition: Member Should be login Park should be register in the website.		

Scenarios:

Step#	Action	Software Reaction
1.	Member will click the edit park option	System will open edit park page
2.	Member will enter the detail of park update and click the edit button	System will validate the details and edit the park detail

Alternate Scenarios:

Member will enter the wrong information or left the block empty then it will show error

Post Conditions:

Step#	Description
4.	Member has successfully edit the park detail.

UC_3.1.15.5:Delete_Park_Detail				
Actors:		Member(Admin)		
Feature:		Member can delete the park detail		
Use case	Id:	UC_3.1.15.5		
Pre-cond	lition:	Member should be login first. Park should be register.		
Scenario	s:			
Step#	Action		Software Reaction	
1.	Member will click on the park detail button		System will show the park detail page	
2.		Member will select the park and click the delete button System will delete the selected park detail.		
Alternat	Alternate Scenarios:			
The page car	The page can be crashed during deletion			
Post Conditions:				
Step#	Description			
5.	Member has successfully delete the park detail			

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UC_3.1.15.6:View_Staff				
Actors:		Member(Admin, Supervisor)		
Feature:		Member can view the	staff	
Use case	Id:	UC_3.1.15.6		
Pre-cond	lition:	Member should be login first		
Scenario	os:			
Step#	Action		Software Reaction	
1.	Mer butte	ember will click view staff tton System will show the Staff page		
Alternate Scenarios:				
The page can be crashed.				
Post Conditions:				
Step#	Step# Description			
6.	Mer	Member has successfully view staff		

UC_3.1.15.7:Register_Staff				
Actors:	Member(Admin, Supervis		sor)	
Feature	:	Member can register	the staff member	
Use case	Id:	UC_3.1.15.7		
Pre-cone	dition:	Member should be login first.		
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will click on the Staff registration button		System will show the form of the registration of staff	
2.	Member will fill the form with the require date and submit		System will register the staff member.	
Alternat	Alternate Scenarios:			
If the data is not enter in any given block then it will show error to fill out it.				
Post Conditions:				
Step#	Description			
7.	Member has successfully staff member register.			

	UC_3.1.15.8:Edit_Staff			
Actors:	Actors: Member(Admin, Supervi		isor)	
Feature	:	Member can edit the staff member detail		
Use case	e Id:	UC_3.1.15.8		
Pre-con	e-condition: Member should be login first. Staff member should be register.		_	
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will click on view staff button		System will show the staff page	
2.	Member will select staff member and click on edit button.		System will show the edit page.	
3	Member will enter the staff date and click on edit button		System will validate and edit the staff member detail.	
Alterna	Alternate Scenarios:			
Member wil	Member will enter the wrong information or left the block empty then it will show error			
Post Co	Post Conditions:			
Step#	Description			
8.	Mei	Member has successfully edit the staff member detail.		

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UC_3.1.15.9:Delete_Staff				
Actors:	Member(Admin, Supervisor)		sor)	
Feature	•	Member can delete the staff member		
Use case	· Id:	UC_3.1.15.9		
Pre-con	dition:	Member should be login first. Staff member should be register		
Scenario	os:			
Step#	ep# Action		Software Reaction	
1.	Member will click on the view staff button		System will show the staff page	
2.	Member will select the staff member and click on the delete button		System will delete the selected staff member	
Alternat	Alternate Scenarios:			
The page can be crashed during deletion				
Post Conditions:				
Step#	Description			
9.	9. Member has successfully delete the staff member			

UC_3.1.15.10:View_Nursery				
Actors:		Member(Admin, Supervisor, Visitor)		
Feature	•	Member can view Nursery		
Use case	e Id:	UC_3.1.115.10		
Pre-con	dition:	Member should be login first.		
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will request for view Nursery page System will show Nursery page		System will show Nursery page	
Alternat	Alternate Scenarios:			
	The page is not loaded correctly. Page will crash.			
Post Co	Post Conditions:			
Step#	Description			
10.	Mei	Member has successfully View the Nursery		

	UC_3.1.15.11:Register_Nursery				
Astonos					
Actors:		Member(Admin, Supervi	SOI)		
Feature	•	Member will register	nursery		
Use case	e Id:	UC_3.1.15.11			
Pre-con	dition:	Member have to login	n first.		
Scenario	os:				
Step#	Action		Software Reaction		
1.	_	mber will click on the ster nursery button	System will show the form of nursery registration		
2.	Member will fill out nursery registration form and click on the submit button		System will register the nursert		
Alternat	Alternate Scenarios:				
If the data is	If the data is not enter in any given block then it will show error to fill out it				
Post Co	Post Conditions:				
Step#	Des	Description			
11.	Member has successfully Register nursery.				

	UC_3.1.15.12:Edit_nursery			
Actors:		Member(Admin, Supervisor)		
Feature	•	Member will edit the nursery detail		
Use case	e Id:	UC_3.1.15.12		
Pre-con	dition:	Member Should be lo	_	
Scenario	os:			
Step#	Action		Software Reaction	
1.		mber will click the edit sery option	System will open edit Nursery page	
2.	Member will enter the detail of nursery edit and click the edit button		System will validate the details and edit the nursery detail.	
Alterna	te Scena	rios:		
Member wil	Member will enter the wrong information or left the block empty then it will show error			
Post Conditions:				
Step#	Description			
12.	Member has successfully edit the nursery detail.			

	UC_3.1.15.13:Delete_Nursery			
Actors:		Member(Admin, Supervisor)		
Feature	•	Member can delete the nursery detail		
Use case	e Id:	UC_3.1.15.13		
Pre-con	dition:	Member should be lo Nursery should be reg	-	
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will click on the view nursery button		System will show the view nursery page	
2.	Member will select the nursery and click the delete button		System will delete the selected nursery detail.	
Alternat	te Scenai	rios:		
The page ca	The page can be crashed during deletion			
Post Conditions:				
Step#	Description			
13.	Member has successfully delete the nursery detail			

	UC_3.1.15.14:View_Complains			
Actors:		Member(Admin, Supervisor, Staff, Visitor)		
Feature:		Member can view park complains		
Use case	Id:	UC_3.1.15.14		
Pre-cond	lition:	Member should be lo	gin first.	
Scenario	s:			
Step#	Action Software Reaction		Software Reaction	
1.		Member will request for System will show view complain view complains detail page		
Alternate	Alternate Scenarios:			
	The page is not loaded correctly. Page will crash.			
Post Con	Post Conditions:			
Step#	Description			
14.	Member has successfully view complains page.			

	UC_3.1.15.15:Response_Complain			
Actors:		Member(Admin)		
Feature	;	Member will response of the complains		
Use case	Id:	UC_3.1.15.15	UC_3.1.15.15	
Pre-condition:		Member have to login	n first	
Scenarios:				
Step#	Action		Software Reaction	
1.	Member will request for view complains page.		System will show the view complain page	
2.	Member will select the complaint and click on the response button		System will show the response form.	
3		mber will write the sage and click on the	System will send the message.	

Alternate Scenarios:

If the data is not enter in any given block then it will show error to fill out it

Post Conditions:

Step#	Description
15.	Member has successfully send the response of the complaint.

	UC_3.1.15.16:View_Event			
Actors:		Member(Admin, Supervisor, Staff, Visitor)		
Feature:		Member can view Event		
Use case	e Id:	UC_3.1.15.16		
Pre-con	dition:	Event should be register		
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will request for view Event System will show Event page		System will show Event page	
Alterna	Alternate Scenarios:			
	The page is not loaded correctly. Page will crash.			
Post Co	Post Conditions:			
Step#	Des	Description		
16.	Member has successfully View the Event page.			

	UC_3.1.15.17:Register_Event			
Actors:		Member(Admin)		
Feature	•	Member will register the Event		
Use case	e Id:	UC_3.1.15.17		
Pre-cone	dition:	Member have to login first		
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will click on the		System will show the form of Event registration	
2.	register Event button Member will fill out Event registration form and click on the submit button		System will register the Event	
Alternat	Alternate Scenarios:			
If the data is	If the data is not enter in any given block then it will show error to fill out it			
Post Conditions:				
Step#	Description			
17.	Member has successfully Register Event.			

UC_3.1.15.18:Edit_Event					
Actors:		Member(Admin)			
Feature	:	Member will edit the Event detail			
Use case	e Id:	UC_3.1.15.18			
Pre-con	dition:	Member Should be lo Event should be regis	_		
Scenario	os:				
Step#	Action		Software Reaction		
1.		mber will click the edit	System will open edit Event page		
2.	Member will enter the detail of Event update and click the edit button System will validate the details edit the Event detail		System will validate the details and edit the Event detail		
Alterna	Alternate Scenarios:				
Member wil	Member will enter the wrong information or left the block empty then it will show error				
Post Co	Post Conditions:				
Step#	Description				
18.	Member has successfully edit the Event detail.				

UC_3.1.15.19:Delete_Event				
Actors:		Member(Admin)		
Feature:		Member can delete the Event		
Use case	Id:	UC_3.1.15.19		
Pre-cone	dition:	Member should be login first. Park should be register.		
Scenario	os:			
Step#	Action Softwar		Software Reaction	
1.	Member will request for event page System will show the Event page		System will show the Event page	
2.	 		System will delete the selected event.	
Alternat	Alternate Scenarios:			
The page car	The page can be crashed during deletion			
Post Conditions:				
Step#	Description			
19.	Member has successfully delete the Event.			

	UC_3.1.15.20:View_Staff_Duties			
Actors:		Member(Admin, Supervisor, Visitor)		
Feature:		Member can view staff duties		
Use case	e Id:	UC_3.1.15.20		
Pre-con	dition:	Staff should be regist	er first.	
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will request for view staff duties System will show staff duties page		System will show staff duties page	
Alterna	Alternate Scenarios:			
	The page is not loaded correctly. Page will crash.			
Post Co.	Post Conditions:			
Step#	Description			
20.	Mei	Member has successfully View the staff duties page.		

	UC_3.1.15.21:Assign_duties			
Actors:		Member(Admin)		
Feature	•	Member will assign t	he duties to staff	
Use case	Id:	UC_3.1.15.21		
Pre-con	dition:	Member have to login	n first	
Scenario	os:			
Step#	Action Software Reaction		Software Reaction	
1.	Member will request for view staff page. System will show the staff page		System will show the staff page	
2.	Member will select the staff member and assign the duty System will assign the duty			
Alternat	Alternate Scenarios:			
If the data is	If the data is not enter in any given block then it will show error to fill out it			
Post Conditions:				
Step#	Description			
21.	Member has successfully assign the duties to the staff.			

UC_3.1.15.22:Edit_Duties				
Actors:				
ACIOFS:		Member(Admin)		
Feature:		Member will edit Duties		
Use case Id:		UC_3.1.15.22		
Pre-cone	dition:	Member Should be login		
Scenarios:				
Step#	Action		Software Reaction	
1.	Member will request for view staff.		System will show the staff page.	
2.	Member will select the staff member and edit the duty of that member		System will validate the details and edit the duty of the staff member	
Alternate Scenarios:				
Member will enter the wrong information or left the block empty then it will show error				
Post Conditions:				
Step#	Description			
22.	Member has successfully edit the duty of the staff member.			

	UC_3.1.15.23:View_Vehicles				
Actors:		Member(Admin)			
Feature:		Member can view Vehicles detail			
Use case Id:		UC_3.1.15.23			
Pre-con	dition:	Member should be login.			
Scenari	Scenarios:				
Step#	Action		Software Reaction		
1.	Member will request for view Vehicles detail		System will show view vehicles page		
Alterna	Alternate Scenarios:				
	The page is not loaded correctly. Page will crash.				
Post Conditions:					
Step#	Des	Description			
23.	Member has successfully View the vehicles detail.				

	UC_3.1.15.24:Register_Vehicles				
Actors:		Member(Admin)			
Feature:		Member will register the vehicles			
Use case	e Id:	UC_3.1.15.24			
Pre-con	dition:	Member have to login first			
Scenario	Scenarios:				
Step#	Action		Software Reaction		
1.	Member will click on the register vehicle button		System will show the form of vehicle registration		
2.	Member will fill out vehicle registration form and click on the submit button		System will register the vehicle		
Alterna	Alternate Scenarios:				
If the data is	If the data is not enter in any given block then it will show error to fill out it				
Post Conditions:					
Step#	Description				
24.	Member has successfully Register vehicle.				

UC_3.1.15.25:Edit_Vehicles				
Actors:		Member(Admin)		
Feature:		Member will edit the Event Vehicles detail		
Use case Id:		UC_3.1.15.25		
Pre-con	dition:	Member Should be login		
Scenario	Scenarios:			
Step#	Action		Software Reaction	
1.	Member will request for view vehicles.		System will show the view vehicles page	
2.	Member will enter the detail of vehicle update and click the edit button		System will validate the details and edit the vehicle detail	
Alterna	te Scena	rios:		
Member will enter the wrong information or left the block empty then it will show error				
Post Conditions:				
Step#	Description			

Member has successfully edit the vehicle detail.

25.

UC_3.1.15.26:Delete_Vehicle					
Actors:		Member(Admin)			
Feature:		Member can delete the vehicle			
Use case	e Id:	UC_3.1.15.26			
Pre-con	dition:	Member should be login first.			
Scenario	Scenarios:				
Step#	Action		Software Reaction		
1.	Member will request for view vehicle page		System will show the view vehicles page		
2.	Member will select the vehicle and click the delete button		System will delete the selected vehicle.		
Alterna	Alternate Scenarios:				
The page can be crashed during deletion					
Post Conditions:					
Step#	Des	Description			
26.	Member has successfully delete the vehicle.				

UC_3.1.15.27:View_News					
Actors:		Member(Admin, Supervisor, Staff, Visitor)			
Feature:		Member can view news			
Use case Id:		UC_3.1.15.27			
Pre-condition:		News should be register			
Scenario	Scenarios:				
Step#	Act	ion	Software Reaction		
1.	Member will request for view news System will show news page		System will show news page		
Alterna	Alternate Scenarios:				
The page is not loaded correctly. Page will crash.					
Post Conditions:					
Step#	Des	Description			
27.	Member has successfully View the news page.				

UC_3.1.15.28:Add_News					
Actors:		Member(Admin, Supervisor)			
Feature:		Member will add news			
Use case	Id:	UC_3.1.15.28			
Pre-cond	ition:	Member have to login first			
Scenarios	s:				
Step#	Action Software Reaction		Software Reaction		
1.	Member will click on the add news button		System will show the form for add news		
2.	Member will fill out news form and click on the add button		System will add news		
Alternate	Alternate Scenarios:				
If the data is	If the data is not enter in any given block then it will show error to fill out it				
Post Conditions:					
Step#	Des	cription			
28.	Member has successfully add news.				

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	UC_3.1.15.29:Edit_News				
Actors:		Member(Admin, Supervisor)			
ACIUIS.		Weinber(Admin, Supervisor)			
Feature	•	Member will edit the news			
Use case	e Id:	UC_3.1.15.29			
Pre-con	dition:	Member Should be lo New should be add in	_		
Scenario	os:				
Step#	Action		Software Reaction		
1.	Member will request for view news page		System will show the news page		
2.	Member will enter the detail of News data and click the edit button		System will validate the details and edit the news detail		
Alterna	Alternate Scenarios:				
Member wil	Member will enter the wrong information or left the block empty then it will show error				
Post Co	Post Conditions:				
Step#	Des	cription			
29.	Member has successfully edit News.				

	UC_3.1.15.30:Delete_News				
Actors:		Member(Admin, Supervisor)			
Feature	:	Member can delete the news			
Use case	e Id:	UC_3.1.15.30			
Pre-con	dition:	Member should be login first. News should be add in website.			
Scenario	os:				
Step#	Action Software Reaction		Software Reaction		
1.	Member will request for view news page		System will show the news page		
2.	Member will select the news and click the delete button		System will delete the selected news.		
Alterna	Alternate Scenarios:				
The page ca	The page can be crashed during deletion				
Post Co	Post Conditions:				
Step#	Description				
30.	Member has successfully delete the news.				

	UC_3.1.15.31:View_Contract				
Actors:		Member(Admin, Supervisor)			
Feature:		Member can view contract			
Use case	e Id:	UC_3.1.15.31			
Pre-cond	dition:	Member should be login			
Scenario	os:				
Step#	Action Software Reaction				
1.	Member will request for view Contract		System will show contract page		
Alternat	Alternate Scenarios:				
	The page is not loaded correctly. Page will crash.				
Post Con	Post Conditions:				
Step#	Description				
31.	Member has successfully View the contract page.				

	UC_3.1.15.32:Add_Contract				
Actors:		Member(Admin)			
Feature	:	Member will add contract			
Use case	e Id:	UC_3.1.15.32			
Pre-con	dition:	Member have to login first			
Scenario	os:				
Step#	# Action Software Reaction				
1.	Member will click on the add contract button		System will show the form for add contract		
2.	Member will fill out contract form and click on the add button		System will add contract		
Alterna	Alternate Scenarios:				
If the data is	s not ente	r in any given block then i	t will show error to fill out it		
Post Co	Post Conditions:				
Step#	Des	Description			
32.	Member has successfully add contract.				

	UC_3.1.15.33:Edit_Contract				
Actors:		Member(Admin)			
Feature	•	Member will edit the contract			
Use case	Id:	UC_3.1.15.33			
Pre-cone	dition:	Member Should be login Contract should be add in website			
Scenario	os:				
Step#	Action Software Reaction		Software Reaction		
1.	Member will request for view contract page		System will show the contract page		
2.	Member will enter the detail of contract data and click the edit button		System will validate the details and edit the contract detail		
Alternat	Alternate Scenarios:				
Member wil	Member will enter the wrong information or left the block empty then it will show error				
Post Conditions:					
Step#	Des	Description			
33.	Member has successfully edit contract.				

	UC_3.1.15.34:Delete_Contract				
Actors:		Member(Admin)			
Feature	:	Member can delete the contract			
Use case	e Id:	UC_3.1.15.34			
Pre-con	dition:	Member should be login first. Contract should be add in website.			
Scenari	os:				
Step#	Action Software Reaction		Software Reaction		
1.	Member will request for view contract page		System will show the contract page		
2.	Member will select the contract and click the delete button		System will delete the selected contract.		
Alterna	Alternate Scenarios:				
The page ca	The page can be crashed during deletion				
Post Co	Post Conditions:				
Step#	Description				
34.	Member has successfully delete the news.				

	UC_3.1.15.35:View_Park_Council				
Actors:		Member(Admin, Supervisor, Staff, Visitor)			
Feature	:	Member can View park council			
Use case	e Id:	UC_3.1.15.35			
Pre-con	dition:	Park council should be register			
Scenari	os:				
Step#	Action Software Reaction		Software Reaction		
1.	Member will request for view park council page		System will show park council page		
Alterna	Alternate Scenarios:				
	The page is not loaded correctly. Page will crash.				
Post Co	Post Conditions:				
Step#	Description				
35.	Member has successfully View the park council page.				

		UC_3.1.15.36:Add	_Park_Council	
Actors: Member(Admir		Member(Admin)		
Feature:		Member will add park council		
Use case	d:	UC_3.1.15.36		
Pre-cone	dition:	Member have to login	first	
Scenario	os:			
Step#	Action Software Reaction		Software Reaction	
1.	Member will click on the add park council button		System will show the form for add council	
2.	Member will fill out council form and click on the add button		System will add park council	
Alternat	Alternate Scenarios:			
If the data is	not enter	r in any given block then it	will show error to fill out it	
Post Conditions:				
Step#	Des	Description		
36.	Mer	mber has successfully add p	park council.	

	UC_3.1.15.37:Edit_Park_Council				
Actors:	Actors: Member(Admin)				
Feature	•	Member will edit the park council			
Use case	e Id:	UC_3.1.15.37			
Pre-cone	dition:	Member Should be lo Park council should be	_		
Scenario	os:				
Step#	Acti	Action Software Reaction			
1.	Member will request for view park council page		System will show the park council page		
2.	Member will enter the detail of park council data and click the edit button		System will validate the details and edit the park council detail		
Alternat	Alternate Scenarios:				
Member wil	Member will enter the wrong information or left the block empty then it will show error				
Post Con	Post Conditions:				
Step#	Des	cription			
37.	Member has successfully edit park council.				

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	UC_3.1.15.38:Delete_Park_Council			
Actors:		Member(Admin)		
Feature	:	Member can delete the park council		
Use case	Id:	UC_3.1.15.38		
Pre-cone	dition:	Member should be log Park council should be		
Scenario	os:			
Step#	Action		Software Reaction	
1.		mber will request for v park council page	System will show the park council page	
2.	Member will select the park		System will delete the selected park council.	
Alternat	te Scenai	rios:		
The page car	The page can be crashed during deletion			
Post Con	Post Conditions:			
Step#	Des	Description		
38.	Member has successfully delete the park council.			

	UC_3.1.15.39:View_Construction			
Actors:		Member(Admin)		
Feature	•	Member can view construction		
Use case	e Id:	UC_3.1.15.39		
Pre-con	dition:	Member should be lo	gin	
Scenario	os:			
Step#	Act	Action Software Reaction		
1.		mber will request for v construction page System will show construction page		
Alternat	Alternate Scenarios:			
	The page is not loaded correctly. Page will crash.			
Post Co	Post Conditions:			
Step#	Des	Description		
39.	Member has successfully View the construction.			

	UC_3.1.15.40:View_Schedule			
Actors:		Member(Supervisor, Stat	îf)	
Feature	:	Member can view schedule		
Use case	e Id:	UC_3.1.15.40		
Pre-con	dition:	Member should be lo	gin	
Scenario	os:			
Step#	Act	Action Software Reaction		
1.		ember will request for system will show schedule page.		
Alternat	Alternate Scenarios:			
	The page is not loaded correctly. Page will crash.			
Post Conditions:				
Step#	Description			
40.	Member has successfully View the schedule page.			

	UC_3.1.15.41:Add_Schedule			
Actors:		Member(Supervisor)		
Feature	•	Member will add schedule		
Use case	e Id:	UC_3.1.15.41		
Pre-con	dition:	Member have to login	first	
Scenario	os:			
Step#	Action		Software Reaction	
1.		mber will click on the schedule button	System will show the form for add schedule	
2.	Member will fill out schedule form and click on the add button		System will add schedule	
Alternat	te Scenai	rios:		
If the data is	If the data is not enter in any given block then it will show error to fill out it			
Post Con	Post Conditions:			
Step#	Des	Description		
41.	Member has successfully add schedule.			

	UC_3.1.15.42:Edit_schedule			
Actors:		Member(Supervisor)		
Feature	•	Member will edit the	schedule	
Use case	e Id:	UC_3.1.15.42		
Pre-con	dition:	Member Should be login Schedule should be add in website		
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will request for view schedule page		System will show the schedule page	
2.	Member will enter the detail of schedule data and click the edit button		System will validate the details and edit the schedule detail	
Alternat	Alternate Scenarios:			
Member wil	Member will enter the wrong information or left the block empty then it will show error			
Post Conditions:				
Step#	Description			

42.

Member has successfully edit schedule

	UC_3.1.15.43:Delete_Schedule			
Actors:		Member(Supervisor)		
Feature	:	Member can delete the schedule		
Use case	Id:	UC_3.1.15.43		
Pre-cone	dition:	Member should be login first. Schedule should be add in website.		
Scenario	os:			
Step#	Acti	ion	Software Reaction	
1.	Member will request for view schedule page		System will show the schedule page	
2.	Member will select the schedule and click the delete		System will delete the selected schedule.	
Alternat	te Scenar	ios:		
The page car	The page can be crashed during deletion			
Post Con	Post Conditions:			
Step#	Des	Description		
43.	Member has successfully delete the schedule.			

	UC_3.1.15.44:Vieew_Report			
Actors:		Member(Supervisor, Staff,)		
Feature	:	Member can view report		
Use case	e Id:	UC_3.1.15.44		
Pre-con	dition:	Member should be lo	ogin	
Scenario	os:			
Step#	Act	ion	Software Reaction	
1.		mber will request for system will show report page		
Alterna	Alternate Scenarios:			
	The page is not loaded correctly. Page will crash.			
Post Co	Post Conditions:			
Step#	Des	Description		
44.	Mei	Member has successfully View the report page		

	UC_3.1.15.45:Add_Report			
Actors:		Member(Supervisor)		
Feature	:	Member will add report		
Use case	Id:	UC_3.1.15.45		
Pre-cone	dition:	Member have to logir	n first	
Scenario	os:			
Step#	Acti	ion	Software Reaction	
1.		nber will click on the report button	System will show the form for add report	
2.	Member will fill out report form and click on the add button System will add report button		System will add report	
Alternat	te Scenar	rios:		
If the data is	If the data is not enter in any given block then it will show error to fill out it			
Post Cor	Post Conditions:			
Step#	Des	Description		
45.	Mer	Member has successfully add report.		

	UC_3.1.15.46:Edit_Report			
Actors:	Actors: Member(Supervisor)			
Feature	:	Member will edit the report		
Use case	e Id:	UC_3.1.15.46		
Pre-con	dition:	Member Should be lo Report should be add		
Scenario	os:			
Step#	Action		Software Reaction	
1.		mber will request for v report page	System will show the report page	
2.	Member will enter the detail		System will validate the details and edit the report detail	
Alterna	Alternate Scenarios:			
Member wil	Member will enter the wrong information or left the block empty then it will show error			
Post Co	Post Conditions:			
Step#	Des	Description		
46.	Mei	Member has successfully edit report		

	UC_3.1.15.47:Delete_Report			
Actors:		Member(Supervisor)		
Feature	•	Member can delete th	ne report	
Use case	e Id:	UC_3.1.15.47		
Pre-con	dition:	Member should be login first. Report should be add in website.		
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will request for view report page		System will show the report page.	
2.	Member will select the report and click the delete button		System will delete the selected report.	
Alterna	Alternate Scenarios:			
The page ca	The page can be crashed during deletion			
Post Conditions:				
Step#	Description			
47.	Member has successfully delete the report.			

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	UC_3.1.15.48:View_Campaign			
Actors:		Member(Supervisor)		
Feature:		Member can view can	npaign	
Use case	Id:	UC_3.1.15.48		
Pre-cond	dition:	Member should be login		
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will request for view campaign System will show campaign page		System will show campaign page	
Alternat	Alternate Scenarios:			
	The page is not loaded correctly. Page will crash.			
Post Conditions:				
Step#	Description			
48.	Member has successfully View the campaign page.			

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		UC_3.1.15.49:A	dd_Compaign	
Actors:		Member(Supervisor)		
Feature	:	Member will add car	npaign	
Use case	e Id:	UC_3.1.15.49		
Pre-con-	dition:	Member have to login	n first	
Scenario	os:			
Step#	Act	ion	Software Reaction	
1.	Member will click on the		System will show the form for add campaign	
2.	add campaign button Member will fill out campaign form and click on the add button		System will add campaign	
Alternate Scenarios:				
If the data is not enter in any given block then it will show error to fill out it				
Post Conditions:				
Step#	Step# Description			
49.	Mei	mber has successfully add	campaign.	

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UC_3.1.15.50:Edit_Campaign				
Actors:		Member(Supervisor)		
Feature:	:	Member will edit the	campaign	
Use case	Id:	UC_3.1.15.50		
Pre-cond	dition:	: Member Should be login Campaign should be add in website		
Scenario	os:			
Step#	Acti	Action Software Reaction		
1.	Member will request for view campaign page		System will show the campaign page	
2.	Member will enter the detail of campaign data and click the edit button		System will validate the details and edit the campaign detail	
Alternat	Alternate Scenarios:			
Member will enter the wrong information or left the block empty then it will show error				
Post Conditions:				
Step#	Des	cription		
50.	Member has successfully edit campaign.			

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UC_3.1.15.51:Delete_Campaign				
Actors:		Member(Supervisor)		
Feature	:	Member can delete th	e campaign	
Use case	· Id:	UC_3.1.15.51		
Pre-cone	dition:	Member should be login first. Campaign should be add in website.		
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will request for view campaign page		System will show the campaign page	
2.	Member will select the campaign and click the delete button		System will delete the selected campaign.	
Alternat	Alternate Scenarios:			
The page can be crashed during deletion				
Post Conditions:				
Step#	Des	cription		
51.	Member has successfully delete the campaign.			

UC_3.1.15.52:View_Attendance				
Actors:		Member(Supervisor)		
Feature	•	Member can view atte	endance	
Use case	e Id:	UC_3.1.15.52		
Pre-con	dition:	Member should be login		
Scenario	os:			
Step#	Act	tion Software Reaction		
1.		Tember will request for ew attendance System will show attendance page.		
Alternat	Alternate Scenarios:			
	The page is not loaded correctly. Page will crash.			
Post Conditions:				
Step#	ep# Description			
52.	Member has successfully View the attendance.			

	UC_3.1.15.53:View_Grants				
Actors:		Member(Supervisor)			
Feature	•	Member can view grants			
Use case	e Id:	UC_3.1.15.53			
Pre-con	dition:	Member should be login			
Scenario	os:				
Step#	Action		Software Reaction		
1.	Member will request for view grants		System will show grant page		
Alternat	Alternate Scenarios:				
	The page is not loaded correctly. Page will crash.				
Post Conditions:					
Step#	Description				
53.	Member has successfully View the grant page.				

UC_3.1.15.54:Add_Grant				
Actors:		Member(Supervisor)		
Feature	:	Member will add gran	ts	
Use case	e Id:	UC_3.1.15.54		
Pre-con	dition:	Member have to login first		
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will click on the add grant button		System will show the form for add grants	
2.	Member will fill out grants form and click on the add button		System will add grants	
Alternat	Alternate Scenarios:			
If the data is	If the data is not enter in any given block then it will show error to fill out it			
Post Conditions:				
Step#	Description			
54.	Member has successfully add grants.			

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		UC_3.1.15.55:1	Edit_Grants	
Actors:	Actors: Member(Supervisor)			
Feature	Feature: Member will edit the		grants	
Use case	Use case Id: UC_3.1.15.55			
Pre-con	Pre-condition: Member Should be log Grants should be add			
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will request for view grants page		System will show the grants page	
2.	Member will enter the detail of grants data and click the edit button		System will validate the details and edit the grants detail	
Alterna	Alternate Scenarios			
Member wil	l enter th	e wrong information or left	the block empty then it will show error	
Post Co.	Post Conditions:			
Step#	Step# Description			

Member has successfully edit grants

55.

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UC_3.1.15.56:Delete_Grants					
Actors:	etors: Member(Super				
Feature	::	Member can delete the grants			
Use case	e Id:	UC_3.1.15.56			
Pre-con	dition:	Member should be login first. Grants should be add in website.			
Scenari	os:				
Step#	Action		Software Reaction		
1.		mber will request for w grants page	System will show the news page		
2.	Member will select the grants and click the delete button		System will delete the selected grants.		
Alterna	Alternate Scenarios:				
The page ca	The page can be crashed during deletion				
Post Co	Post Conditions:				
Step#	Description				
56.	Member has successfully delete the grants.				

UC_3.1.15.57:View_Expenditures				
Actors:	: Member(Supervisor,)			
Feature	•	Member can view expenditures		
Use case	e Id:	UC_3.1.15.57		
Pre-con	dition:	Member should be login		
Scenario	os:			
Step#	Act	Action Software Reaction		
1.	Member will request for view expenditures		System will show expenditures page	
Alternat	Alternate Scenarios:			
	The page is not loaded correctly. Page will crash.			
Post Co	Post Conditions:			
Step#	Des	cription		
57.	Mei	nber has successfully View	v the expenditures.	

		UC_3.1.15.58:Add	l_Expenditures		
Actors:		Member(Supervisor)			
Feature	•	Member will add expenditures			
Use case	e Id:	UC_3.1.15.58			
Pre-con	dition:	Member have to login first			
Scenario	os:				
Step#	Action		Software Reaction		
1.	Member will click on the add expenditure button		System will show the form for add expenditures		
2.	Member will fill out expenditure form and click on the add button		System will add expenditures		
Alternat	te Scenai	rios:			
If the data is	If the data is not enter in any given block then it will show error to fill out it				
Post Con	Post Conditions:				
Step#	Des	cription			
58.	Member has successfully add expenditures.				

UC_3.1.15.59:Edit_Expenditures					
Actors:	Member(Supervisor)				
Feature:	:	Member will edit the expenditures			
Use case	Id:	UC_3.1.15.59			
Pre-cond	dition:	Member Should be login Expenditures should be add in website			
Scenario	os:				
Step#	Acti	Action Software Reaction			
1.	Member will request for view expenditures page		System will show the expenditures page		
2.	Member will enter the detail of expenditures data and click the edit button		System will validate the details and edit the expenditures detail		
Alternat	Alternate Scenarios:				
Member will	Member will enter the wrong information or left the block empty then it will show error				
Post Conditions:					
Step#	Des	cription			
59.	Member has successfully edit expenditures.				

UC_3.1.15.60:Delete_Expenditures					
Actors:	etors: Member(Supervisor)				
Feature	•	Member can delete the expenditures			
Use case	e Id:	UC_3.1.15.60			
Pre-con	dition:	Member should be login first. Expenditures should be add in website.			
Scenario	os:				
Step#	Acti	ion	Software Reaction		
1.	Member will request for view expenditures page		System will show the expenditures page		
2.	Member will select the expenditures and click the delete button		System will delete the selected expenditures.		
Alterna	Alternate Scenarios:				
The page ca	The page can be crashed during deletion				
Post Con	Post Conditions:				
Step#	Des	cription			
60.	Mer	mber has successfully delet	e the expenditures.		

		UC_3.1.15.61:A	dd_Attendance	
Actors:	Actors: Member(Staf			
Feature:		Member will add attendance		
Use case	e Id:	UC_3.1.15.61		
Pre-con	dition:	Member have to login first		
Scenario	os:			
Step#	Action		Software Reaction	
1.	Member will click on the add attendance button		System will show the form for add attendance	
2.	Member will fill out attendance form and click on the add button		System will add attendance	
Alterna	te Scena	rios:		
If the data is	s not ente	r in any given block then i	it will show error to fill out it	
Post Conditions:				
Step#	Des	cription		
61.	Member has successfully add attendance.			

	UC_3.1.15.62:Add_Complain				
Actors:	Member(Visitor)				
Feature	•	Member will add Complain			
Use case	e Id:	UC_3.1.15.62			
Pre-con	dition:	Member have to login first			
Scenario	os:				
Step#	Action		Software Reaction		
1.	Member will click on the add complain button		System will show the form for add complain		
2.	Member will fill out complain form and click on the add button		System will add complain		
Alternat	Alternate Scenarios:				
If the data is	If the data is not enter in any given block then it will show error to fill out it				
Post Conditions:					
Step#	Des	cription			
62.	Member has successfully add complain.				

UC_3.1.15.63:Request_Event					
Actors:		Member(Visitor)			
Feature	:	Member will request	for event		
Use case	e Id :	UC_3.1.15.63			
Pre-con	dition:	Visitor view the event			
Scenario	os:				
Step#	Action Software Reaction		Software Reaction		
1.	Member will click on the request event button		System will show the form f request for event	for	
2.	Member will fill out request event form and click on the add button		System will send request		
Alterna	te Scena	rios:			
If the data is	If the data is not enter in any given block then it will show error to fill out it				
Post Co	Post Conditions:				
Step#	Des	cription			
63.	Member has successfully request send for event.				

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	UC_3.1.15.64:View_Park				
Actors:		Member(Visitor)			
Feature:	1	Member will View park			
Use case	Id:	UC_3.1.15.64			
Pre-cond	dition:	Member must visit the website			
Scenario	os:				
Step#	Action		Software Reaction		
1.	Member will request for view park		System will show the park page		
Alternat	e Scenar	ios:			
	The page is not loaded correctly. Page will crash.				
Post Con	Post Conditions:				
Step#	Step# Description				
64.	Member has successfully view the park page				

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UC_3.1.15.65:Logout				
Actors:		Member(Admin, Supervisor, Staff)		
Feature:		Member can Logout		
Use case	Id:	UC_3.1.15.65		
Pre-cond	lition:	Member should be login		
Scenario	os:			
Step#	Acti	ion	Software Reaction	
1.	Member will request for logout.		System will logout the member	
Alternat	e Scenar	ios:		
		oility of system, it will displace gister then it will show erro		
Post Cor	nditions:			
Step# Description				
65.	Mer	mber has successfully logou	t.	

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Chapter 4: Third Deliverable For Object Oriented Approach

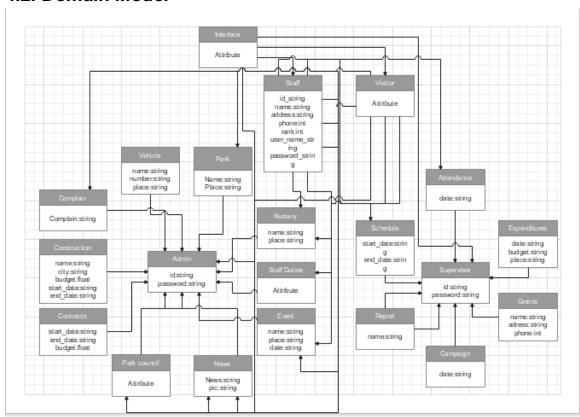
4.1. Introduction:

Third deliverable is all about the software design. In the previous deliverable, analysis of the system is completed. So we understand the current situation of the problem domain. Now we are ready to strive for a solution for the problem domain by using object-oriented approach. Following artifacts must be included in the 3rd deliverable.

- 1. Domain Model
- 2. System Sequence Diagram
- 3. Sequence Diagram
- 4. Collaboration Diagram
- 5. Operation Contracts
- 6. Design Class Diagram
- 7. State Transition Diagram
- 8. Data Model

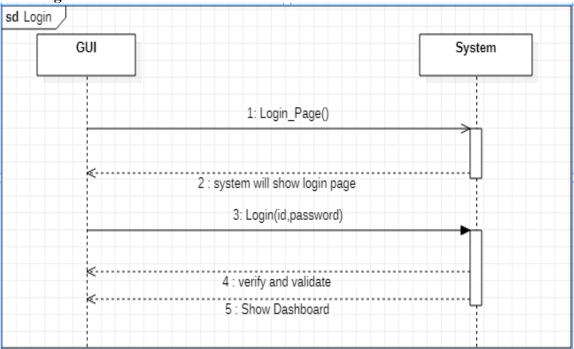
Now we discuss these artifacts one by one as follows:

4.2. Domain Model

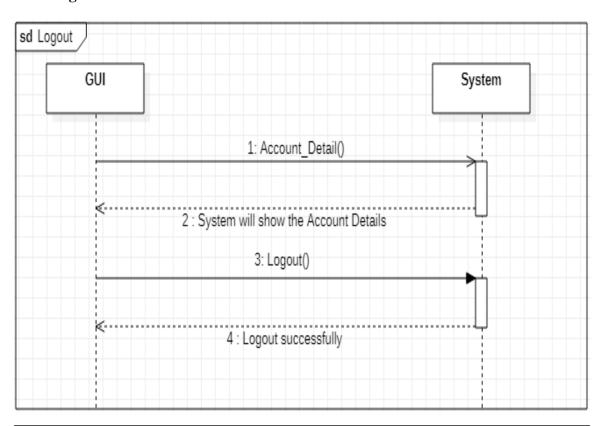


4.3. System Sequence Diagram

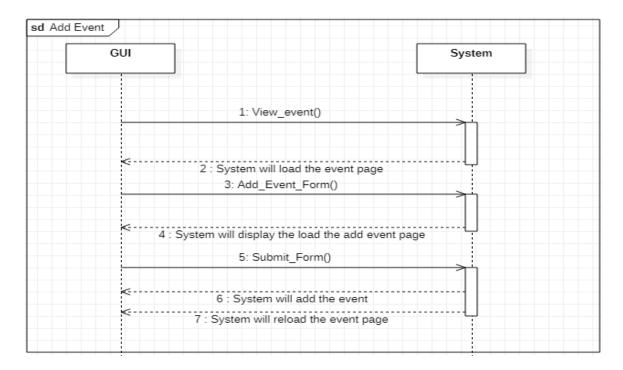
4.3.1 Login:



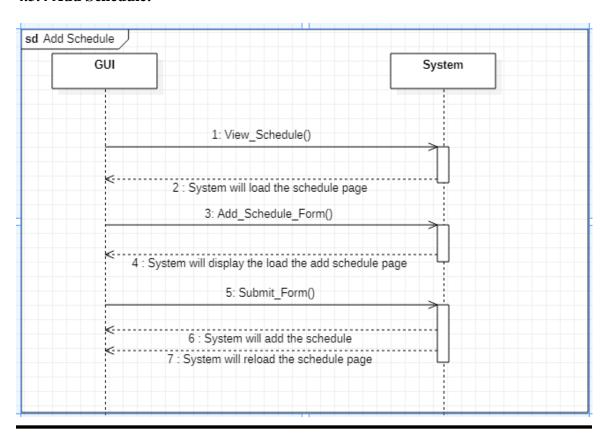
4.3.2 Logout:



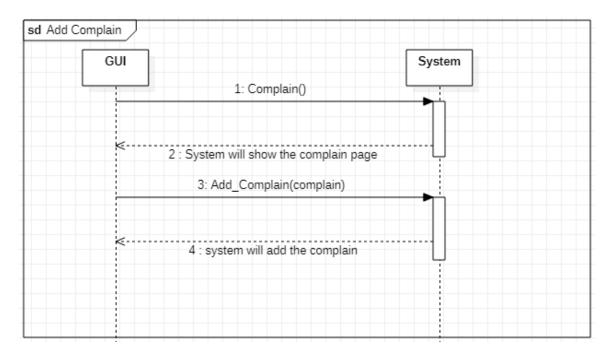
4.3.3 Add Event:



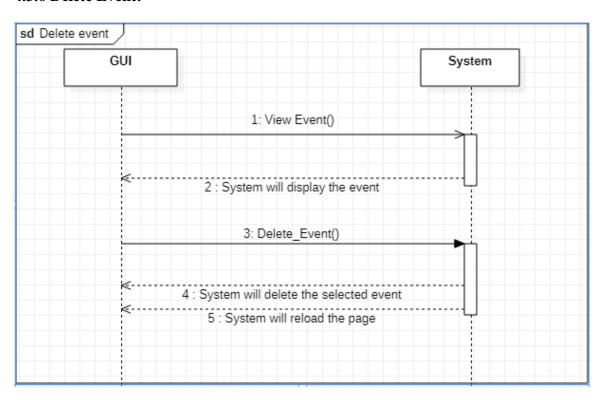
4.3.4 Add Schedule:



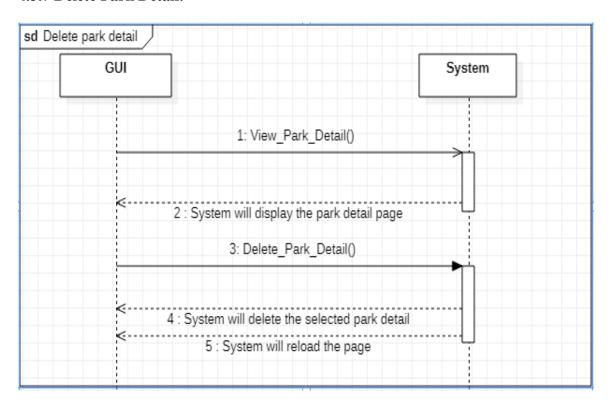
4.3.5 Add Complain:



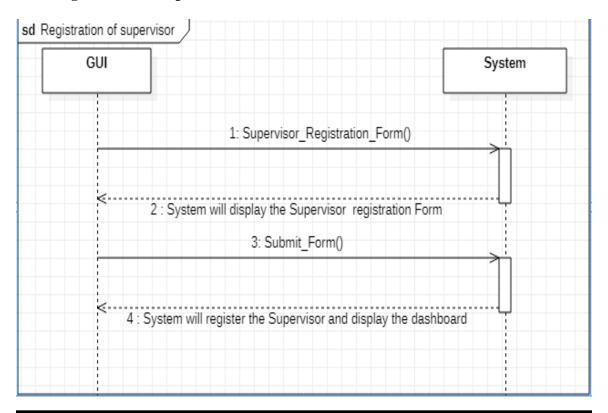
4.3.6 Delete Event:



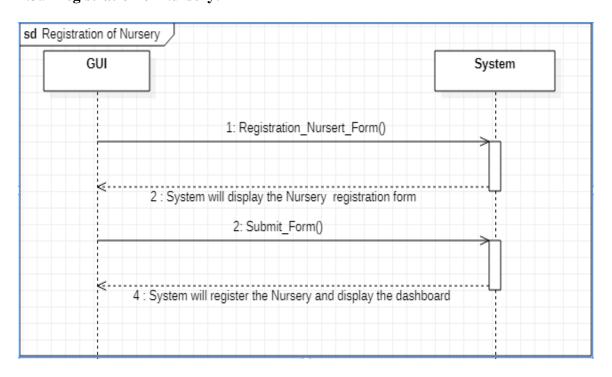
4.3.7 Delete Park Detail:



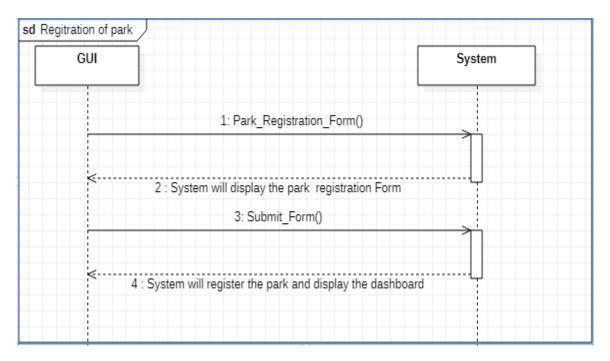
4.3.8 Registration of Supervisor:



4.3.9 Registration of Nursery:

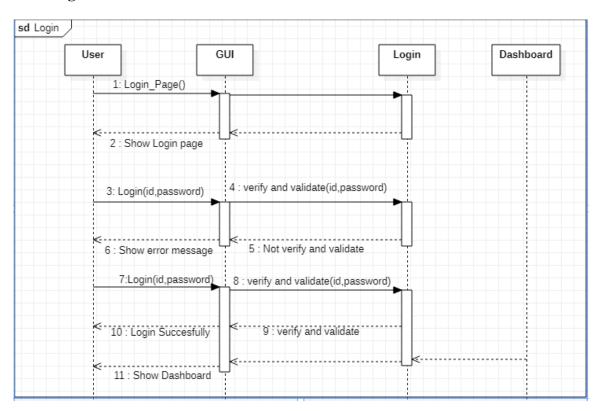


4.3.10 Registration of Park:

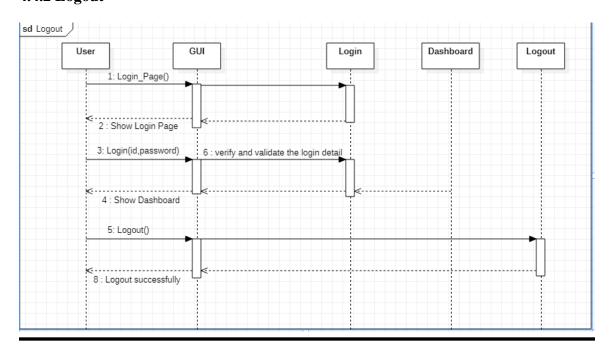


4.4. Sequence Diagram

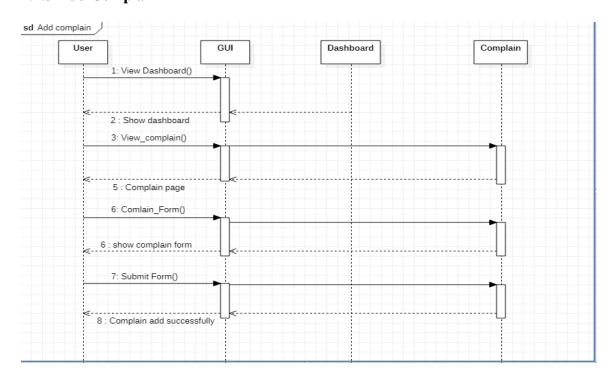
4.4.1 Login



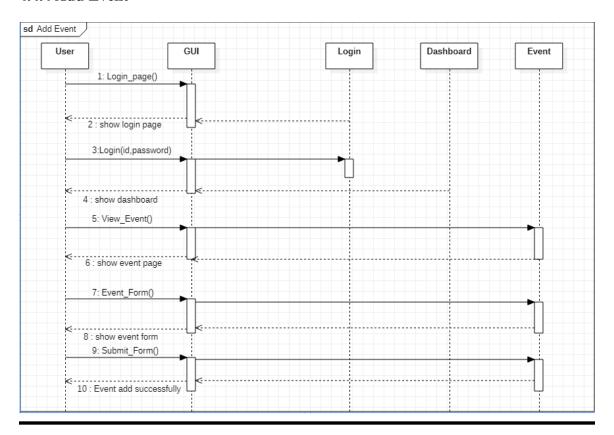
4.4.2 Logout



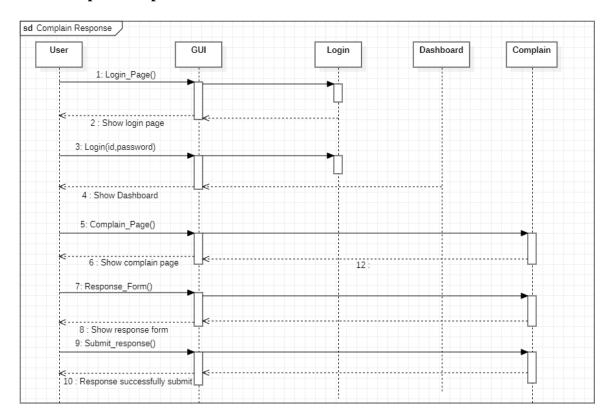
4.4.3 Add Complain



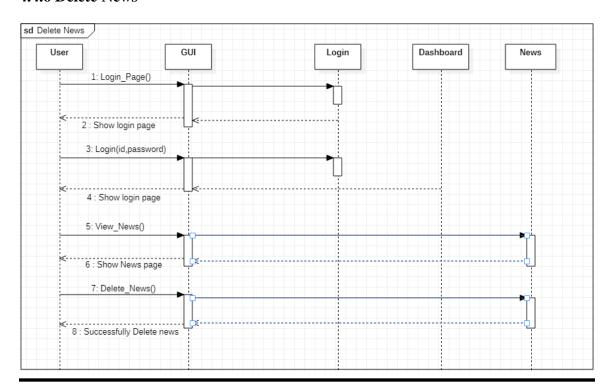
4.4.4 Add Event



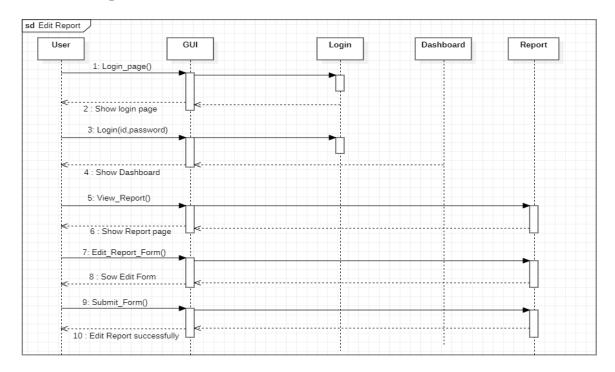
4.4.5 Complain Response



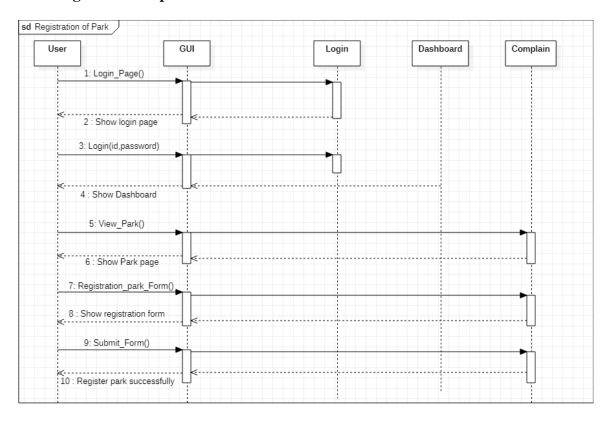
4.4.6 Delete News



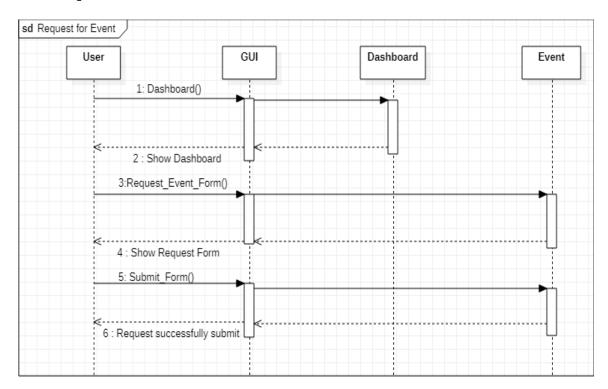
4.4.7 Edit Report



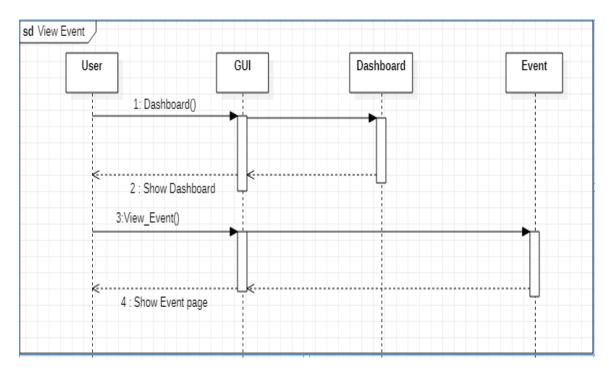
4.4.8 Registration of park



4.4.9 Request for Event



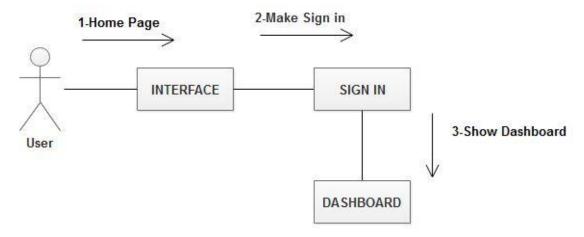
4.4.10 View Event



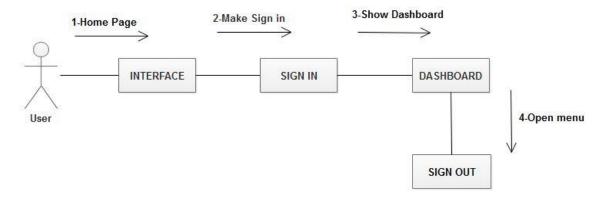
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4.5. Collaboration Diagram

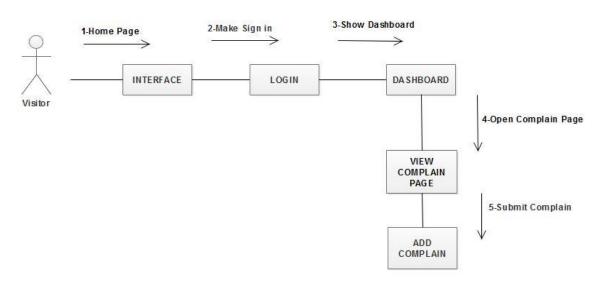
4.5.1 Login



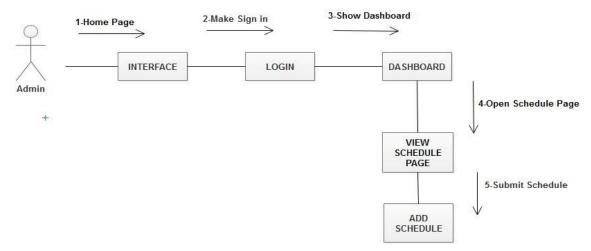
4.5.2 *Logout*



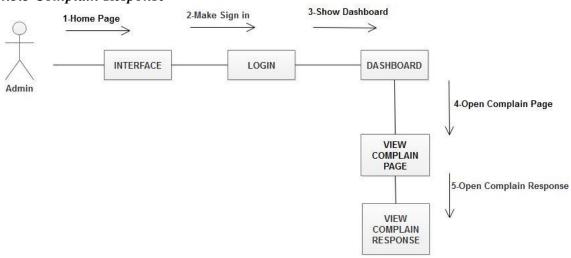
4.5.3 Add Complain



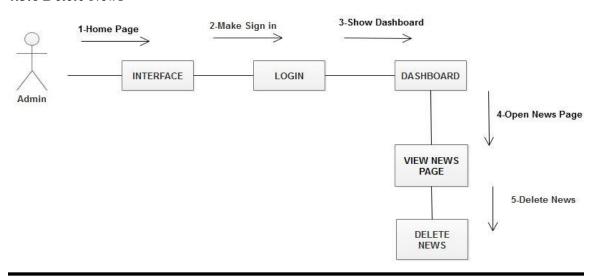
4.5.4 Add Schedule



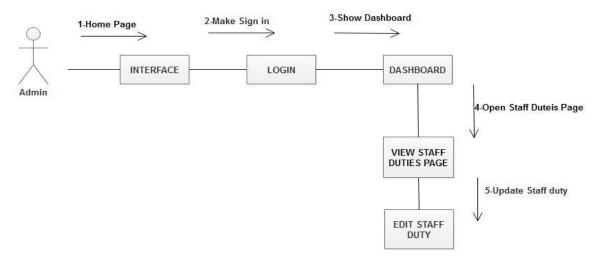
4.5.5 Complain Response



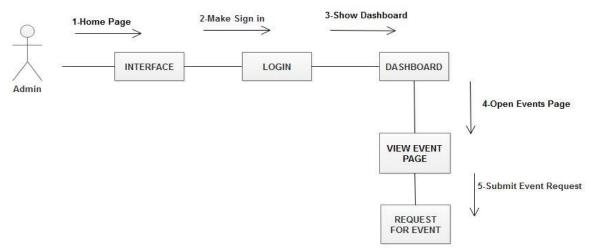
4.5.6 Delete News



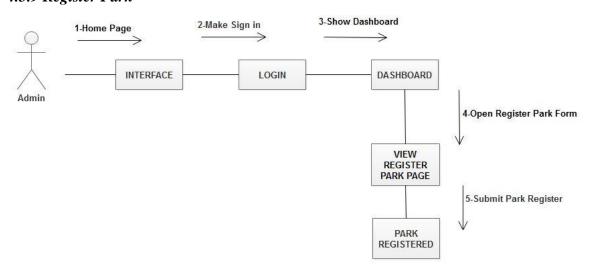
4.5.7 Edit Staff Duty



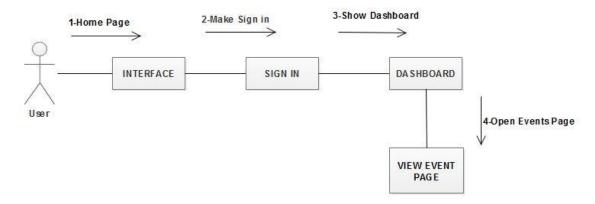
4.5.8 Event Request



4.5.9 Register Park



4.5.10 View Event



4.6. Operation Contracts

A UML Operation contract identifies system state changes when an operation happens. Effectively, it will define what each system operation does. An operation is taken from a system sequence diagram. It is a single event from that diagram. A domain model can be used to help generate an operation contract.

Operation Contract Syntax

Name: appropriateName

Responsibilities: Perform a function

Cross References: System functions and Use Cases

Exceptions: none

Preconditions: Something or some relationship exists

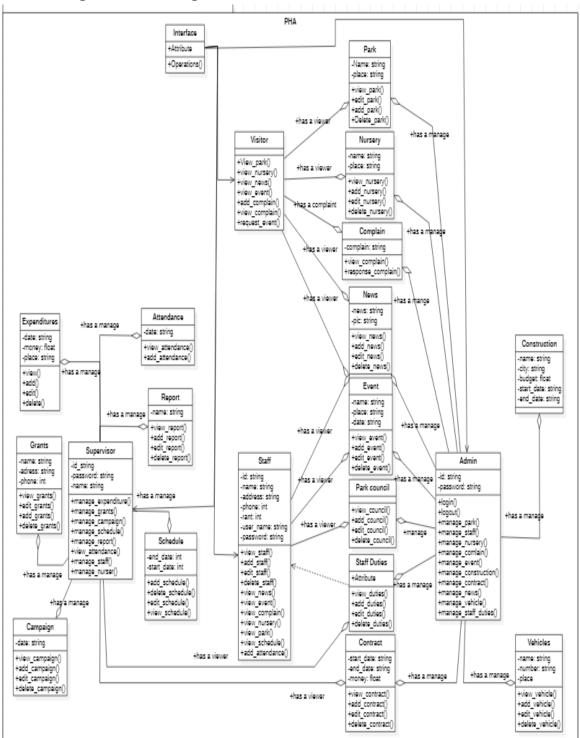
Post conditions: An association was formed

When making an operation contract, think of the state of the system before the action (snapshot) and the state of the system after the action (a second snapshot). The conditions both before and after the action should be described in the operation contract. Do not describe how the action or state changes were done. The pre and post conditions describe state, not actions.

Typical post condition changes:

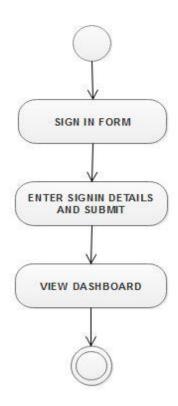
- Object attributes were changed.
- An instance of an object was created.
- An association was formed or broken.
- Post conditions are described in the past tense. They declare state changes to the system. Fill in the name, then responsibilities, then postconditions.

4.7. Design Class Diagram

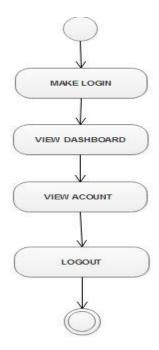


4.8. State chart diagram

4.8.1 Login



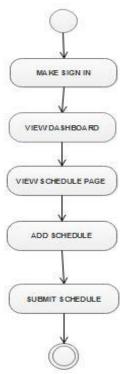
4.8.2 Logout



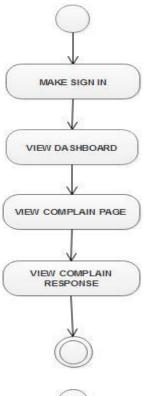
4.8.3 Add Complain



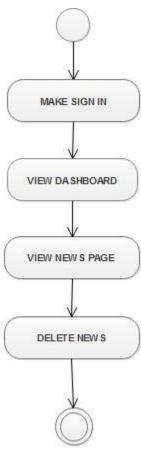
4.8.4 Add schedule



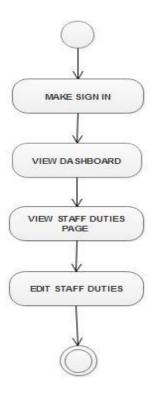
4.8.5 Complain Response



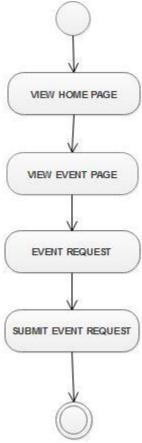
4.8.6 Delete News



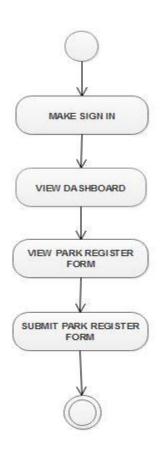
4.8.7 Edit Staff Duty



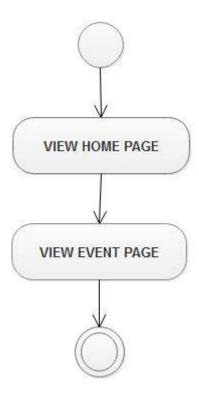
4.8.8 Event Request



4.8.9 Register Park



4.8.10 View Event



4.9. Data Model

	DM:1.1			Admin, Supervisor, Sta	aff
	Name: Regi	ster			
Sr-No	Attribute	Data-type	Size	Description	Constraints
1	FirstName	Alphabetic	20	First name of the Member	NOT NULL
2	LastName	Alphabetic	20	Last Name of the Member.	NOT NULL,
3	Email	Alphanumer ic	20	ID of the Member.	NOT NULL, PRIMARY, Must include @ in Email,
4	Password	Alphanumer ic	15	Password of the ID.	NOT NULL
5	Type	Alphanumer ic	20	About member designation.	NOT NULL
6	Address	Alphanumer ic	30	Email address of the Member.	NOT NULL
7	PhoneNo	numeric	20	Address of the Member.	NOT NULL
8	Image	Alphanumer ic	50	Image of the Member.	NOT NULL
10	Age	numeric	20	Age of the Member.	NOT NULL
11	Gander	Alphabetic	15	Gander of the Member.	NOT NULL

D.M 1.2				Admin, Supervis	or
Name:Park Council					
Sr- No	Attribute	Data-type	Size	Description	Constraints
1	Council name	Alphabetic	20	Name of the Council	NOT NULL PRIMARY

D.M 1.2.1					
Name: ParkCouncil_CouncilMember					
Sr-No	Attribute	Data-type	Size	Description	Constra ints
1	Council member	Alphabetic	20	Member of the council	NOT NULL
2	Phone No	numeric	10	Ph no of the staff member	NOT NULL
3	Address	Alphanumeric	30	Address of the Council	NOT NULL
4	Image	Alphanumeric	30	Picture of Council	NOT NULL

D.M 1.4				Admin, Supervisor,	Visitor
Name: Staff					
Sr-No	Attribute	Data-type	Size	Description	Constraints
1	Email	Alphanumeric	10	Email of the Staff	NOTNULL, PRIMARY
2	Duty	Alphabetic	30	Duty of the Staff	NOT NULL
3	Start-Time	Alphanumeric	20	Start time of Staff working	NOT NULL
4	End-time	Alphanumeric	10	End time of Staff working	NOT NULL
5	Attendence	Alphanumeric	10	Attendence of the Staff	NOT NULL

D.M 1.5			Admin, Supervisor, Staff, Visitor		
Name: Park					
Sr- No	Attribute	Data-type	Size	Description	Constraints
1	ParkName	Alphabetic	30	Name of park	NOT NULL PRIMARY
2	City	Alphanum eric	30	City of the park	NOT NULL
3	Park Council	Alphabetic	20	Council of park	NOT NULL

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4	Supervisor	Alphabetic	20	Supervisor of the Park	NOT NULL
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	D.M 1.6			Admin, Supervisor			
Name Vahicles							
Sedr- No	Attribute	Data-type	Size	Description	Constraints		
1	VahicleNam e	Alphanumeric	20	Name of vahicle	NOT NULL PRIMARY		
2	Work	Alphanumeric	20	Working of vahicle	NOT NULL		
3	VahicleNum ber	Alphanumeric	10	Number of the vahicle	NOT NULL		
4	ParkName	Alphabetic	30	Name of the park	NOT NULL		

	D.M 1.7			Admin			
Name Supervisor							
Sr-No	Attribute	Data-type	Size	Description	Constraints		
1	Budget	numeric	20	Park Budget	NOT NULL		
2	Suggesion	Alphabetic	30	Suggest how much budget is given to Each park	NOT NULL		

	D.M 1.8			Admin, Supervisor, Staff, Visitor				
	Name: Event							
Sr-No	Attribute	Data-type	Size	Description	Constrai nts			
1	Event ID	Alphanumeric	10	ID is Unique	NOT NULL PRIMAR Y KEY			
2	Email	Alphanumeric	20	Email of Member	NOT NULL			
3	Detail	Alphabetic	30	Information about Event	NOT NULL			
4	Park name	Alphabetic	30	Park name where event is going to occur	NOT NULL			

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5	Start time	Numeric	15	Starting time of Event	NOT
					NULL
6	End time	Numeric	15	Ending rime of Event	NOT
					NULL

D.M 1.9							
Name: Nursery				Admin, Supervisor, Visitor, Staff			
Sr-No	Attribute	Data-type	Size	Description	Constraints		
1	Name	Alphabetic	20	Name of the Nursery	NOT NULL		
2	City	Alphabetic	20	Name of the City	NOT NULL		
3	Supervisor	Alphabetic	20	The Name of Supervisor That Maintain the Nursery	NOT NULL		

				Admin, Superviso	or, Visitor, Staff
N	Name: Nursery	_Plant			
Sr-No	Attribute	Data-type	Size	Description	Constraints
1	PlantName	Alphabetic	20	Name of the Plant	NOT NULL
2	PlantType	Alphabetic	20	Type of the Plant	NOT NULL
3	Detail	Alphabetic	20	Detail of the plant	NOT NULL

	D.M 1.10			Admin, Supervisor			
	Name: Campaig	n					
Sr-No	Attribute	Data- type	Size	Description	Constraints		
1	CampaignNam e	Alphabet ic	20	Name of the Campaign	NOT NULL		
2	City	Alphabet ic	20	Name of the City Where Campaign is going to occur	NOT NULL		

Na	me: Campai	gn_Email			
Sr-No	Attribute	Data-type	Size	Description	Constraints
1	Email	Alphanumeric	20	Email of the staff	NOT NULL

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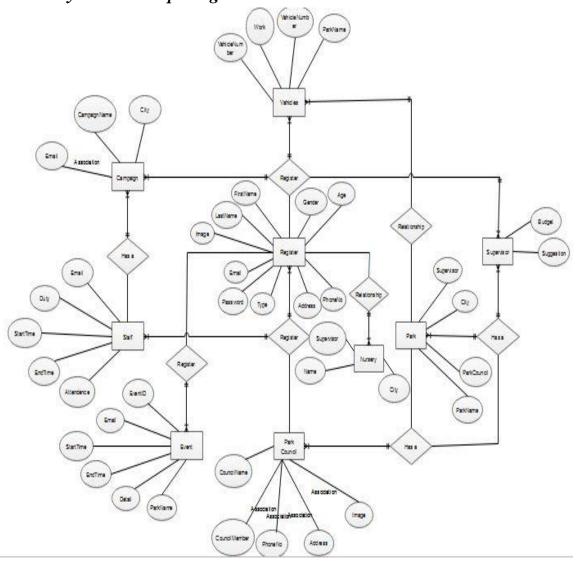
Chapter 5: 2nd & 3rd Deliverable For structured Approach

5.1. Introduction:

Analysis & Design Model for structured approach must contain following artifacts:

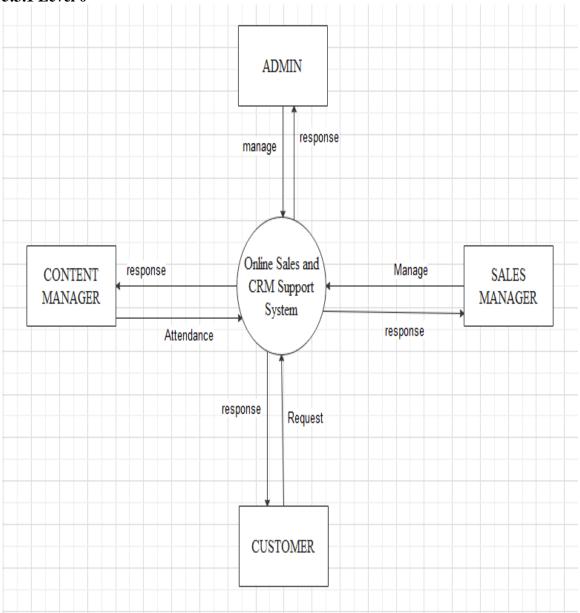
- 1. Entity Relationship Diagram
- 2. Data Flow Diagram (Functional Model)
- 3. State Transition Diagram (Behavioral Model)
- 4. Architecture Design
- 5. Component Level Design

5.2. Entity Relationship Diagram:

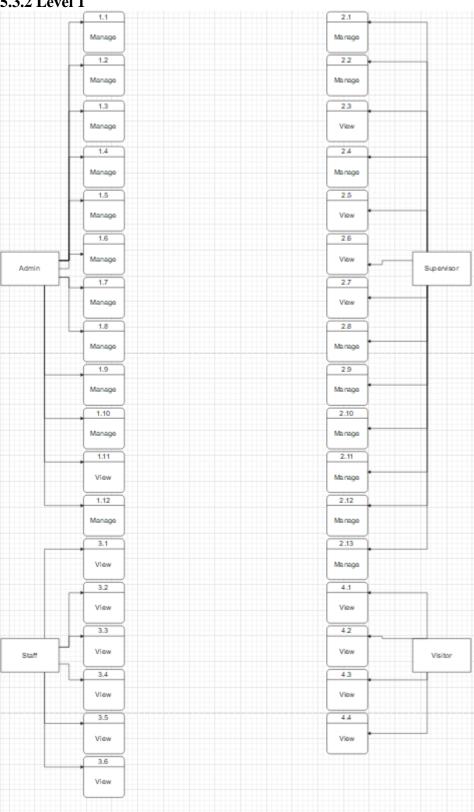


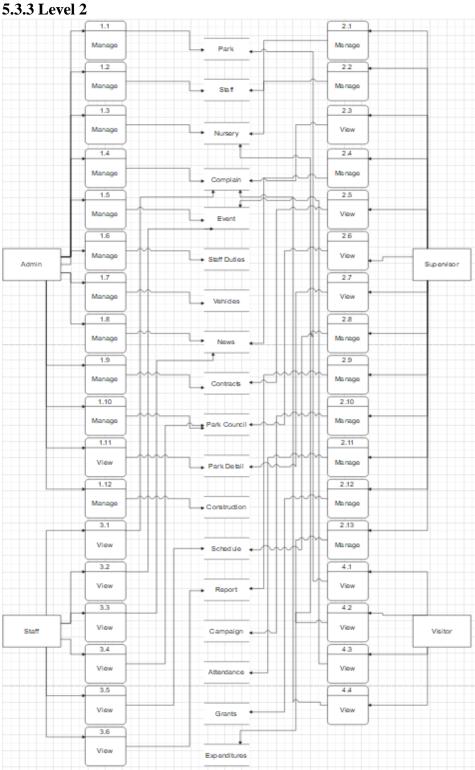
5.3. Data flow diagram (Functional Model)

5.3.1 Level 0



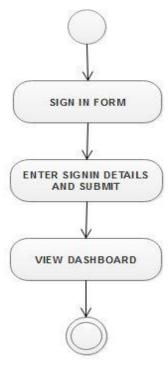
5.3.2 Level 1



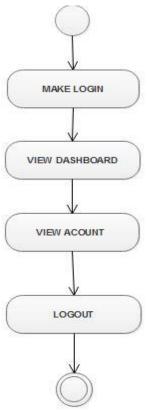


5.4. State Transition Diagram

5.4.1 Login



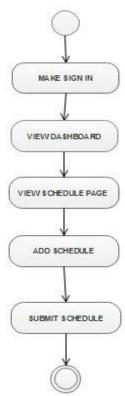
5.4.2 Logout



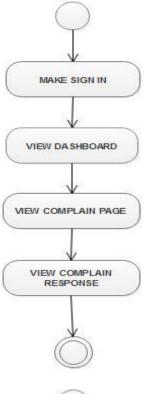
5.4.3 Add Complain



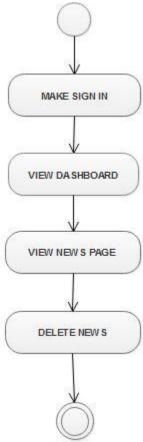
5.4.4 Add schedule



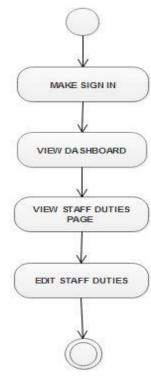
5.4.5 Complain Response



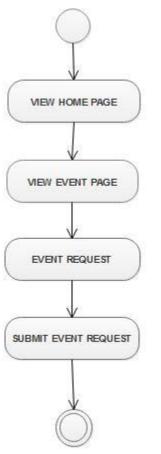
5.4.6 Delete News



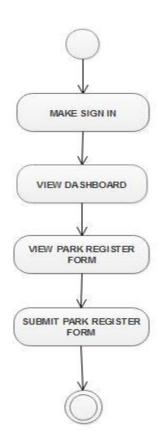
5.4.7 Edit Staff Duty



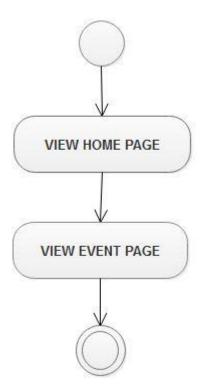
5.4.8 Event Request



5.4.9 Register Park

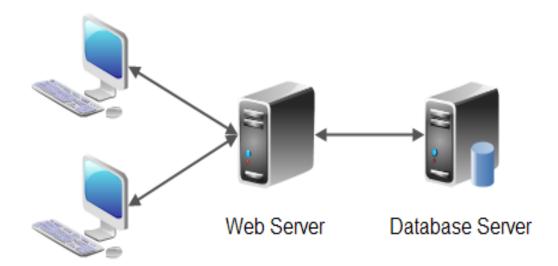


5.4.10 View Event



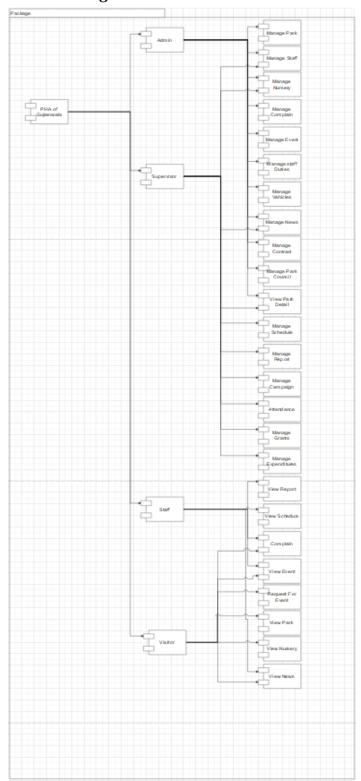
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5.5. Architectural design



Web Browser

5.6. Component Level Design



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Session: BSCS Fall 2016-2020

Project Advisor: Muhammad Bilal

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