## Project Part 2

**Team:** Ashwath Gundepally Omkar Prabhu Vipraja Patil

**Title:** Workforce Management System

**Project Summary:** A web based application that helps Management and Employees with schedule management, initiating and approving shift change requests and time-offs, and managing payment details for an organization.

# **Project Requirements**

USER R	USER REQUIREMENTS				
ID	Actor	Requirement	Priority		
US-01	Employee, Manager	As a user, I should be able to login	High		
US-02	Manager	As a manager, I should be able to create employee accounts	High		
US-03	Manager	As a manager, I should be able to create employee schedules	High		
US-04	Manager	As a manager, I should be able to edit employee schedules	High		
US-05	Employee	As an employee, I should be able to view public profiles of other employees	Medium		
US-06	Employee	As an employee, I should be able to request to exchange my shifts	Medium		
US-07	Employee	As an employee, I should be able to request to drop my shifts	Medium		
US-08	Manager	As a manager, I should be able to approve of leave/ shift exchange requests	Medium		
US-09	Manager	As a manager, I should be able to edit details of the employees	High		
US-10	Employee	As an employee, I should be able to view payment details	Low		
US-11	Employee, Manager	As a user, I should be able to clock-in and clock-out	High		
US-12	Employee, Manager	As a user, I should be able to change the passwords	High		
US-13	Employee	As an employee, I should be able to submit my availability for the upcoming work week.	Medium		
US-14	Employee, Manager	As a user, I should be able to view schedules	High		
US-15	Manager	As a manager, I can view requests for shift exchange, and timeoff	High		
US-16	Manager	As a manager, I can review Employee's performance	Low		

BUSINESS REQUIREMENTS				
ID	Requirements Priority			
BR-01	Maximum 100 employee accounts can be created High			

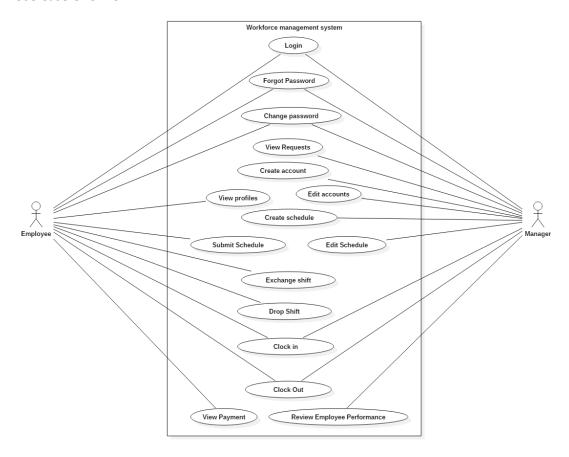
FUNCTIONAL REQUIREMENTS			
ID	Requirements Priority		
FR-01	Email the employee the link to reset their password  High		

FR-02	Email the employees about holidays		
FR-03	An alert should be send to the manager if the employee doesn't turn up for		
	their shift		
FR-04	Email the employees about their performance status	Low	

NON-FUNCTIONAL REQUIREMENTS				
ID	Requirements	Priority		
NFR-01	Store salted hash of the password in the database	Medium		
NFR-02	If the attempts to login exceeds more than 5 times, the system will block Low			
	the user account			
NFR-03	The system should be able to handle 20 concurrent employee logins	Low		

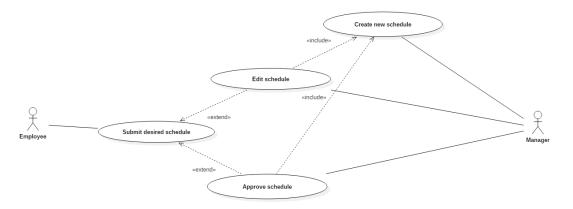
### **Use cases**

#### a. Use Case Overview

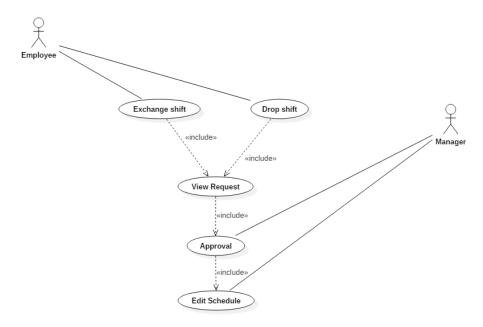


#### i. Sub-diagram

Creation of new schedule



### Exchange or Drop Shifts



#### b. Use case documents

Use Case ID:	UC 01
Use Case Name:	Create Schedule
Description:	Let's the manager create a new schedule

Primary actor	Manager		
Secondary actor	Employee		
Precondition	Employee	should exist in the datab	ase
Postcondition	New sched	dule is created	
Frequency of use	Weekly		
Flow of events	Actor action System response		System response
	1	Employee submits the	
	desired schedule		
	2	Manager will edit this	
		submitted schedule as	
		per organizational	
		needs	
	3	Create a new schedule	Update schedule on the
		for the employee	portal
Variations	If the employee fails to submit the schedule, Manager will		
	automatically create the schedule.		
Exceptions	None		
Developer's notes	None		

Use Case ID:	UC 02
Use Case Name:	Drop Shift
Description:	Employees can request to drop their shifts

Primary actor		Employee			
Secondary actor	М	Manager			
Precondition	En	Employee request should exist in the database			
Postcondition	Dr	Drop request is denied/approved			
Frequency of	Ra	Random			
use					
Flow of events		Actor action	System response		
	1	Employee requests for	System will create a request notification		
		dropping shift	on portal		
	3	Manager will view request			
	4	Manager approves request	Update employee schedule on the		

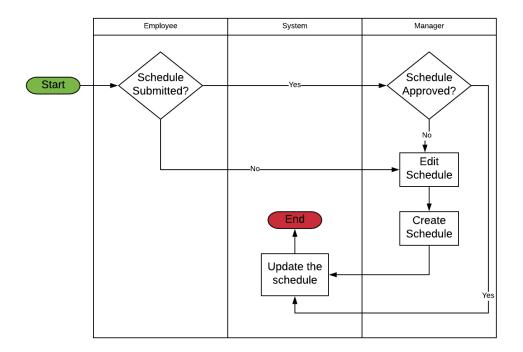
	portal
Variations	Manager could deny this request
Exceptions	None
Developer's	None
notes	

Use Case ID:	UC 03
UCase Name:	Exchange Shift
Description:	Employees can request to exchange their shifts

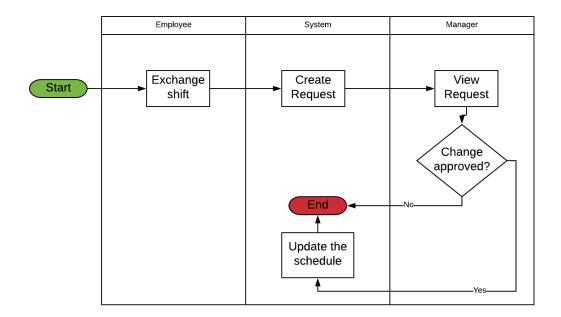
Primary actor	Employee			
Secondary actor Manager				
Precondition	En	nployee should exist in the datab	ase	
Postcondition	Ex	Exchange shift request is denied/approved		
Frequency of	Ra	Random		
use				
Flow of events		Actor action	System response	
	1	Employee requests for	System will create a request	
		exchanging shift	notification on portal	
	3	Manager will view request		
	4	Manager approves request	Update employee schedule on the	
			portal	
Variations	Manager could deny this request			
Exceptions	None			
Developer's	No	None		
notes				

# **Activity Diagram**

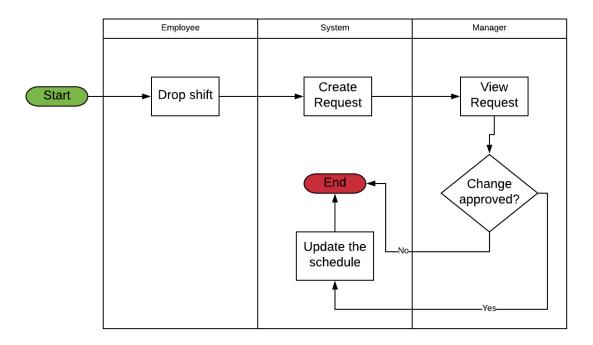
a. Activity diagram for creating new schedule



b. Activity diagram for Exchange shift



### c. Activity diagram for Drop shift



# **UI Mockup**

a. Login Page

	VIOA	ny da Try taka	
	VIVI	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
.4	LOGIN	201 × 5 10 11 1	150
		2 7 M 10 10 10 1	30 v . 6-
			SATE OF
	Username;	3.	
	ŕ		
	Password:	y 10-3-1 V. C.	pári sa ita
	Forgot Password?		4,5
	(Submit)		· · ·
		1 1	
			1
r	. 8		
		-	9

### b. Employee Dashboard

VIOA	Profile
Welcome, Adam	Sign Out
V	
my Dashboard	Se bringweek 2
Employee Search	A ASIA COLLEGE
My Schedule	(Clock In) (Clock Out)
Enchange Suft	Editor September 1
Deop Shift	Brop Buff William
View Payment	VIEW PREMIUM COTIBLES

VIOA	Profite
Wellone, Adam	
and	
my Dashboard	Employee Search
Employee Learth	Name:
myschedule	1 Colored 12 200 1 1 12/18
Exchange Shift	Learth Result;
Drop shift	Elisabeth Colors
vun Payment	
	lokau lokau

#### d. Employee - View Schedule

VIOA		Profile			
Wellowe, Adam	4	most sign out			
	r	<b>J</b>			
my bashboard	Scu	edule for this week			
Employee Search		Employer season			
my schidule	Date	Day Time			
Enchange Shift	01/12/18	monday 9-12pm			
Drop Shift	01/13/18	Tuesday 2-3 pm			
View Payment	01/15/18	Thursday 8-12 am			
U		· · · · · · · · · · · · · · · · · · ·			

#### e. Manager Dashboard

VIOA		Profile Sign Out
Wellonie, Manager	,	Sign Out
0	· · · · · · · · · · · · · · · · · · ·	
My Dashboard		
Edit aerounts View Schedules	CLOCK IN	(clock out)
Requis 6	( ewk in	(2004,000)
Adam: Drop Suift		
Liza: Exchange shift		
Peter: Drop Brif		
Army: Exchange Mift		-

### f. Manager - Drop shift page

VIOA	the first time the bases while the continue and a		ľ	Profile	
Welione, Adam			8	ign out	-
Days C	with the second place, builty to writing the second control of the		William (2)	U	
my Dasheon		DR	op sligt	,	
Emproyee Leauh	Englin		jor op	4.1.79	
my Schedule	: SUND	ali	Day	Time	Deop
Exchange Shift	01	/12/18	monday	9-12pm	X
Deep Shift	oy	113/18	Tuesday	2-3pm	X
View Payment	OV	15/18	Thursday	8-12am	X
0			morali	VILLE 16	
		lokay			
The first of the second		V	bergerinden bet tog a Van Sale, tem op i Anton televis a de		

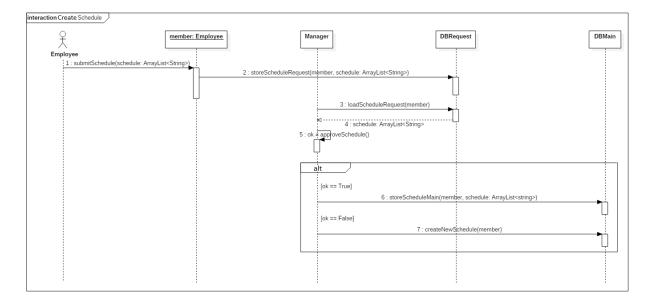
#### **User Interactions**

Requirement ID: US-03 Use Case ID: UC-01

Use Case name: Create Schedule

Description: Every week the employee will submit a desired schedule, the manager will either approve

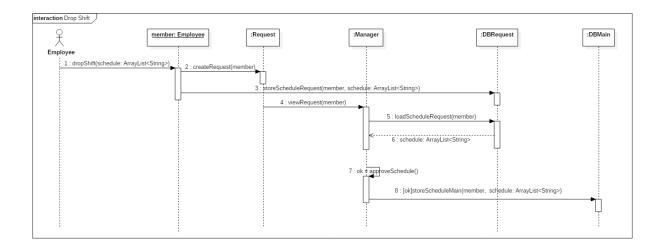
the schedule or edit the given schedule according to the organizational needs.



Requirement ID: US-08 Use Case ID: UC-07

Use Case name: Drop Shift

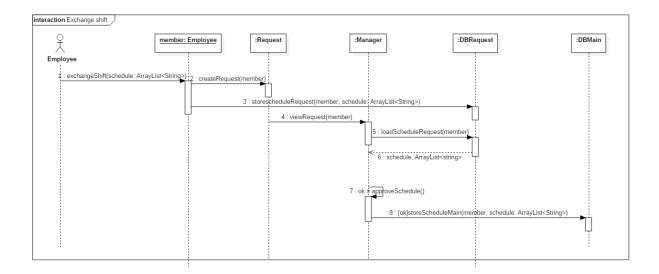
Description: Employee can request to drop shift



Requirement ID: US-08 Use Case ID: UC-06

Use Case name: Drop Shift

Description: Employee can request to exchange shift



# **Class Diagram**

