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Project Vision We aim to create a tool for schedule management in the workplace which will allow for managers to automate the creation of employee schedules by processing employee schedule requests (desired days, hours, etc.) in order to optimize managerial workflow.

Use Case: Request Schedule Change

ID: UC06

Actors:

Employee

Preconditions:

1. The Employee is logged into the system

Flow of Events:

- 1. Employee selects "Request Schedule Change"
- 2. System opens dialog for requested change
- 3. Employee enters desired date/time they wish to change
- 4. Employee enters the reason for the schedule to be changed
- 5. System sends generated request to Manager for approval
- 6. System forwards "Schedule Change Request" notification to email in database

Postconditions:

1. Schedule pending approval from Manager

Alternative Flow:

1. At any point the dialog may be closed without clicking to confirm, which discards any inputted information and does not create a new request.

Use Case: Approve Request

ID: UC08

Actors:

Manager

Preconditions:

1. The manager is logged into the system

Flow of Events:

- 1. Manager receives a request from the System
- 2. Manager either confirms or rejects the request.

Postconditions:

1. If the request was approved, the schedule is updated

Alternative Flow:

1. At any point the dialog may be closed, which discards any inputted information and does not update a schedule

Postconditions: If the request was rejected, an email is forwarded to the Employee's email provided in the System database and the request is removed

Use Case: Print Employee Schedule		
ID: UC09		
Actors: Employee		
Preconditions:		

1. The Employee is logged into the system

Flow of Events:

- 1. The Employee selects "Print my schedule"
- 2. The Employee indicates what schedule they wish to print
- 3. The System finds the indicated schedule and extracts only the data pertaining to the Employee
- 4. The System returns the dates and times the Employee is designated to work.

Postconditions:

1. The Employee's Schedule is displayed on the screen.

Alternative Flow:

1. At any point the dialog may be closed, which discards any inputted information and does not show the Employee's Schedule

Use Case: Add Employee		
ID: UC01		
Actors: Manager		
Dragonditions		

1. The manager is logged into the system on an administrator account

Flow of Events:

- 1. Manager selects "Register New Employee"
- 2. System opens dialog for employee information
- 3. Manager enters requested information about employee
- 4. System adds employee to employee database

Postconditions:

1. New employee added to database

Alternative Flow:

1. At any point the dialog may be closed, which discards any inputted information and does not create a new employee in the database.

Use Case: Remove Employee		
ID: UC02		
Actors: Manager		
5		

1. The manager is logged into the system on an administrator account

Flow of Events:

- 1. Manager selects the "Remove Employee" option while viewing the employee in the employee list
- 2. System opens confirmation dialog
- 3. Manager confirms removal of employee
- 4. System removes employee/employee's information from database

Postconditions:

1. Selected employee removed from database

Alternative Flow:

1. The confirmation dialog may be closed, which cancels removal of the employee.

Use Case: Update Employee		
ID: UC03		
Actors: Manager		
Proconditions		

- 1. The manager is logged into the system on an administrator account.
- 2. The manager already has the Employee data.
- 3. The employee is already registered to the system.

Flow of Events:

- 1. Manager selects "Update Employee" from database
- 2. System opens dialog for employee information
- 3. Manager enters requested information about employee
- 4. System adds employee to employee database

Postconditions:

1. Employee data is updated in database.

Alternative Flow:

1. At any point the dialog may be closed, which discards any inputted information and does not create a new employee in the database.

U:	Use Case: Create 9-5 schedule for Monday, Wednesday, and Friday		
ID: UC04			
Actors: Manager	Actors: Manager		

1. The manager is logged into the system on an administrator account

Flow of Events:

- 1. Manager selects "Schedules" from home menu
- 2. System opens schedules screen
- 3. Manager selects "Create New Schedule"
- 4. System opens name choice dialog
- 5. Manager enters a name for the schedule and clicks "Select"
- 6. System closes name choice dialog and opens schedule creation dialog with options/info
- 7. Manager clicks "Time Details" on Monday
- 8. System opens time details dialog for Monday
- 9. Manager enters 9:00 AM for start time and 5:00 PM for end time, then clicks "Apply to All"
- 10. System returns to creation dialog and updates all days to have set times
- 11. Manager removes Tuesday and Thursday from day selection and clicks "Create"
- 12. System creates a new schedule with the name, days, and times chosen by the manager, and stores it in the schedule database.

Postconditions:

1. New schedule generated and added to list of schedules for manager's department

Alternative Flow:

1. Manager can exit dialog without clicking to confirm, which cancels generation of the schedule

Use Case: List Employee		
ID: UC04		
Actors: Manager		
Droconditions:		

1. The manager is logged into the system on an administrator account

Flow of Events:

- Manager selects "List Employee's"
 System displays list of all employe names in the database.

Postconditions:

1. All Employee's from the data base are displayed to the screen.

Alternative Flow:

1. If no Employees are listed in the data base an error message will be displayed.

Use Case: Generate Schedule		
ID: UC05		
Actors: Manager		
D		

1. The manager is logged into the system on an administrator account

Flow of Events:

- 1. Manager selects "Schedules" from main menu
- 2. System opens schedules screen
- 3. Manager selects "Generate New Schedule"
- 4. System opens a dialog with options/info
- 5. Manager inputs desired options and constraints and clicks confirm
- 6. System generates a new schedule based off of employee info and manager's constraints

Postconditions:

1. New schedule generated and added to list of schedules

Alternative Flow:

1. Manager can exit dialog without clicking to confirm, which cancels generation of the schedule

Use Case: Account/Log-in

ID: UCD05

Actors:

Employee/Manager

Preconditions:

1. The user is at the login page

Flow of Events:

- 1. The user inputs username and password
- 2. The user selects enter
- 3. System authenticates login

Postconditions:

1. Pending System access verification.

Alternative Flow:

1. At any point the dialog may be closed without clicking to confirm, which discards any inputted information and does not create a new request.

Alternative Flow:

- 1. The user selects "Change/Forgot password"
- 2. System prompts for new password
- 3. The Inputs new password
- 4. System updates database
- 5. Continue at step 1 of normal flow

Use Case: PTO Request		
ID: UC07		
Actors: Employee		
Proconditions:		

1. The employee is logged into the system.

Flow of Events:

- 1. Employee selects "PTO Request" from main menu
- 2. System opens PTO Request Screen
- 3. Employee inputs desired date/time for request.
- 4. System sends generated request to Manager for approval.
- 5. System forwards "PTO Request" notification to email in database.

Postconditions:

1. Pending manager approval

Alternative Flow:

1. Employee can exit dialog without clicking to confirm, which cancels generation of the PTO Request.

Use Case: Update Holiday Hours		
ID: UC12		
Actors: Manager		

1. The manager is logged into the system on an administrator account

Flow of Events:

- 1. Manager select "Update Hollyday Hours"
- 2. System opens dialog for requested change
- 3. Manager enters desired date/time they wish to update
- 4. System generate new schedule and print out, request for confirmation.
- 5. System forwards "Holyday Hours Update" notification to employees.

Postconditions:

1. Schedule updated.

Alternative Flow:

1. At any point the dialog may be closed without clicking to confirm, which discards any inputted information and does not create a new request.

Use Case: Request Shift Swap

ID: UC11

Actors:

Employee

Preconditions:

1. The employee is logged into the system

Flow of Events:

- 1. User(A) choose a target time registered by another employee(B)
- 2. Pop out a dialog to request a confirmation for the operation and ask for the reason.
- 3. If user confirm this operation. Sent a request to manager account.
- 4. If manager approve the request, sent a request to employee(B).
- 5. If employee(B) approves the request, sent message to user(A) and manager.

Postconditions:

1. Update the new schedule...

Alternative Flow:

- 1. At any point the dialog may be closed, which discards any inputted information and do nothing.
- 2. If the request wasn't approved by manager, do nothing and sent a massage to User(A).
- 3. If the request wasn't approved by employee(B), do nothing and sent a message to manager and User(A).

Postconditions: Do nothing.

Use Case: Print Full Schedule
ID: UC09
Actors: Manager
Preconditions: 1. The manager is logged into the system on an administrator account
Flow of Events: 1. The Manager selects "Print Full schedule"
Postconditions: 1. The Full Schedule is displayed on the screen.

Alternative Flow:

Use Case: Request Overtime		
ID: UC13		
Actors: Employee		
Preconditions:		

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1. The employee is logged into an account in the system

Flow of Events:

- 1. Employee selects "Request Overtime"
- 2. System opens interface for overtime request
- 3. Employee enters dates and hours planned to work overtime
- 4. Employee enters reason for overtime
- 5. System generates request for manager approval
- 6. System notifies user for request to email in database

Postconditions:

1. Pending approval request in Manager inbox

Alternative Flow:

1. User cancels overtime request

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ID: UC14

Actors:

Manager, Employee

Preconditions:

1. The employee or manager has an account in the system

Flow of Events:

- 1. User (Employee or Manager) enters username
- 2. User enters password
- 3. System authenticates the user credentials
- 4. User is granted access

Postconditions:

1. User is logged in and given permissions based on the account permissions

Alternative Flow:

- 1. Login is able to be canceled at any time
- 2. If login fails more than 5 times, system locks account

Postconditions:

1. Account is locked until manager unlocks account

Use	Case: Logout
ID: UC15	

Actors:

Manager, Employee

Preconditions:

1. The employee or manager is logged into an account in the system

Flow of Events:

- 1. User selects logout button
- 2. System checks for confirmed logout
- User confirms logout
 System returns to login page

Postconditions:

1. System logs user out of all open pages

Alternative Flow:

1. User cancels logout

Postconditions:

1. User is still logged into all pages

	Use Case: Make Request								
ID: UCD01									

Employee Preconditions:

Actors:

1. The Employee is logged into the system

Flow of Events:

- 1. The Employee selects "Make Request"
- 2. A dialog box opens prompting the Employee to choose what type of request to make
- 3. The Employee selects "Request Schedule Change"
- 4. Employee enters desired date/time they wish to change
- 5. Employee enters the reason for the schedule to be changed
- 6. System sends generated request to Manager for approval
- 7. System forwards "Schedule Change Request" notification to email in database

Postconditions:

1. Schedule pending approval from Manager

Alternative Flow:

1. At any point the dialog may be closed without clicking to confirm, which discards any inputted information and does not create a new request.

Alternative Flow:

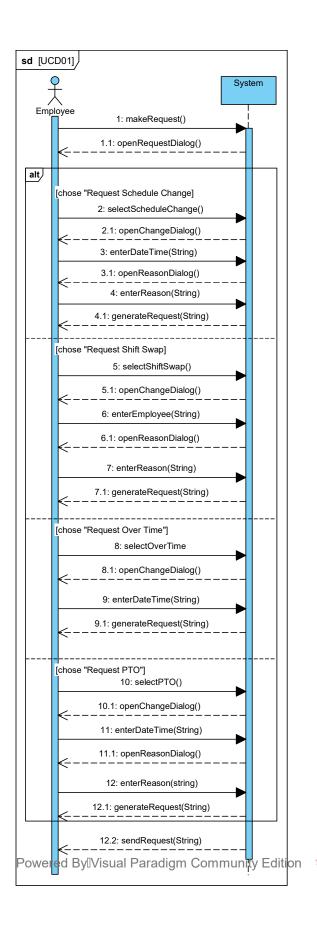
- 1. The Employee selects "Request Shift Swap" instead of "Request Schedule Change"
- 2. Employee enters which Employee they wish to swap schedules with
- 3. Employee enters the reason for the schedules to be swapped
- 4. Continue at step 5 of normal flow

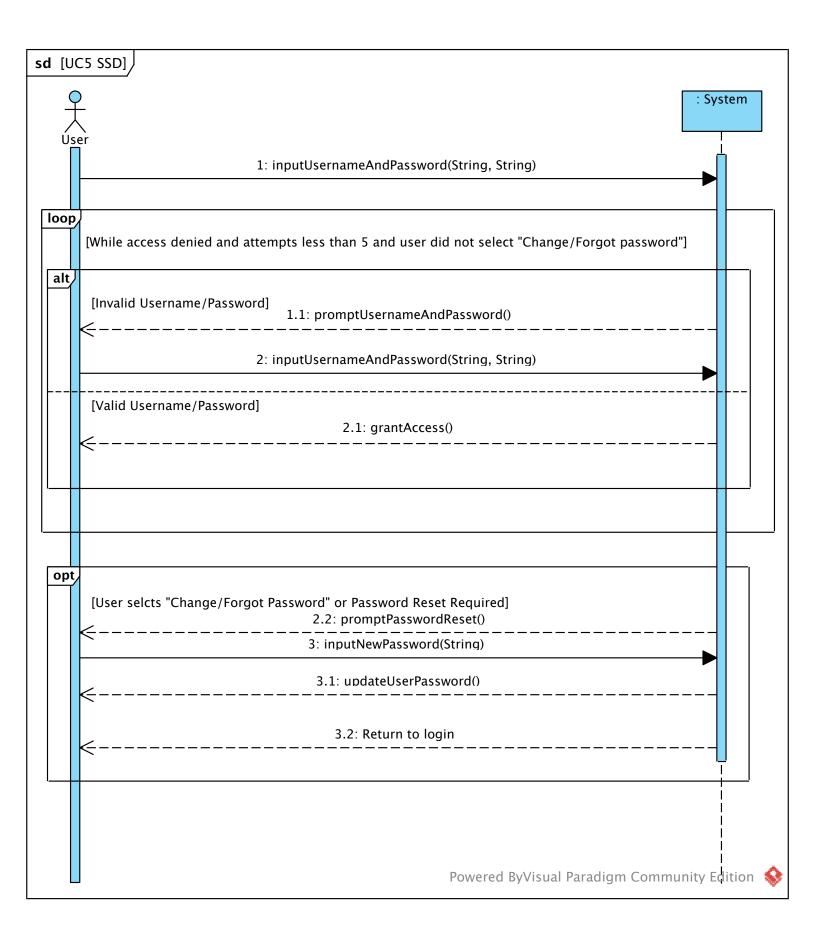
Alternative Flow:

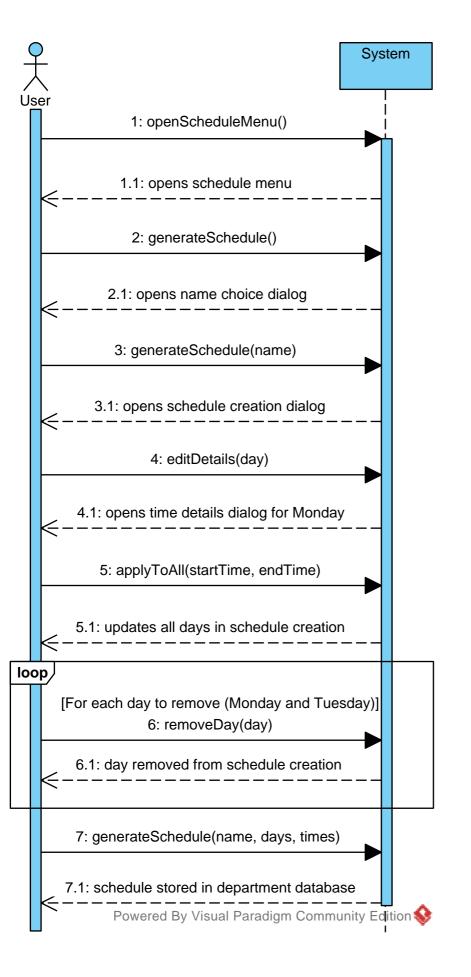
- 1. The Employee selects "Request Over Time" instead of "Request Schedule Change"
- 2. Employee enters the desired date/time they wish to work overtime
- 3. Continue at step 5 of normal flow

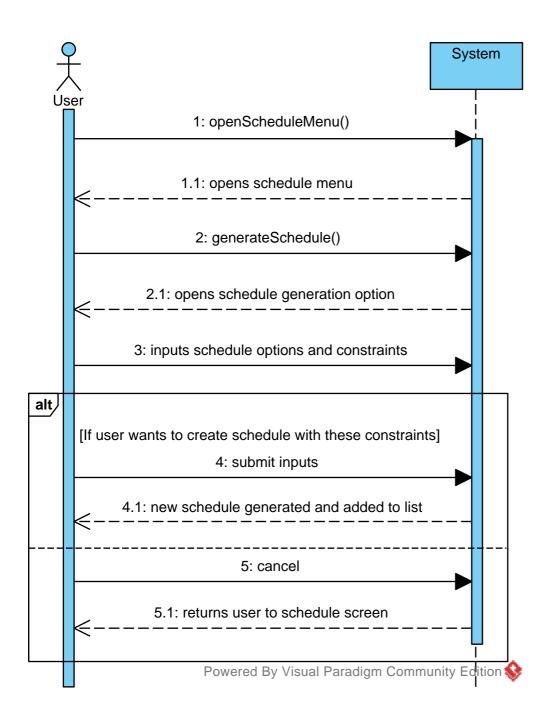
Alternative Flow:

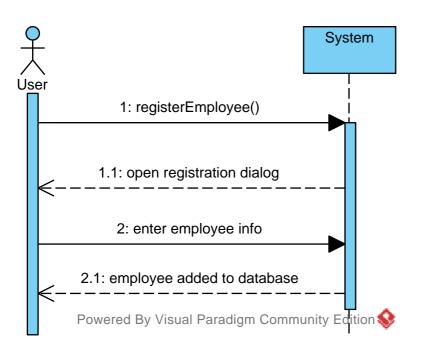
- 1. The Employee selects "Request PTO" instead of "Request Schedule Change"
- 2. Employee enter the desired date/time they wish to take off
- 3. Employee enters the reason they wish to take PTO
- 4. Continue at step 5 of normal flow

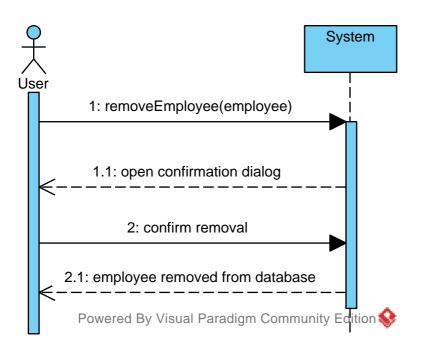


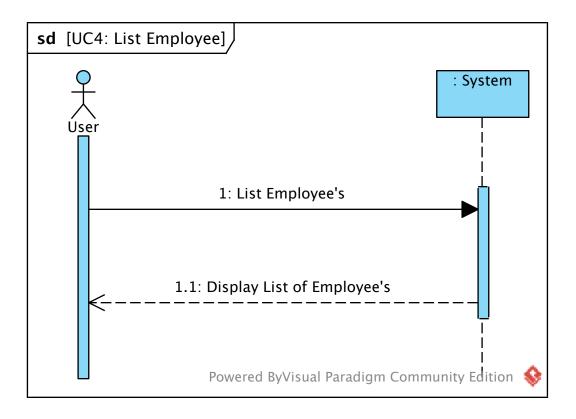


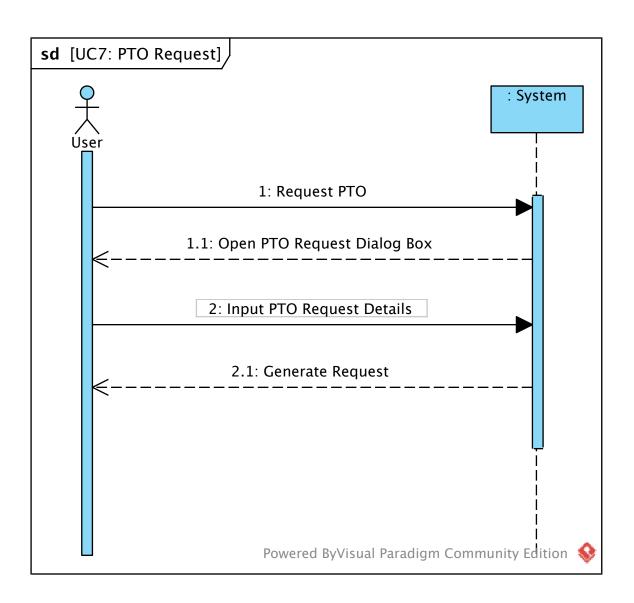


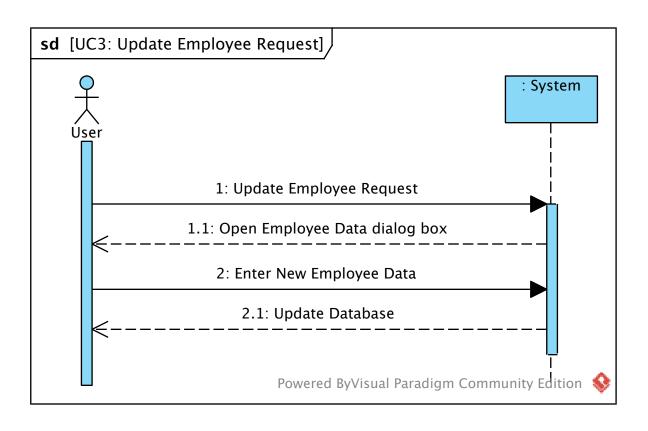


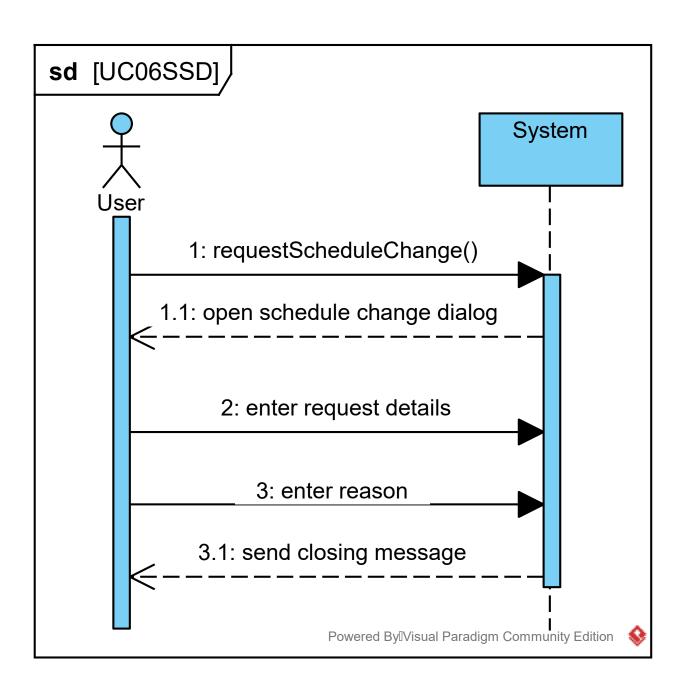


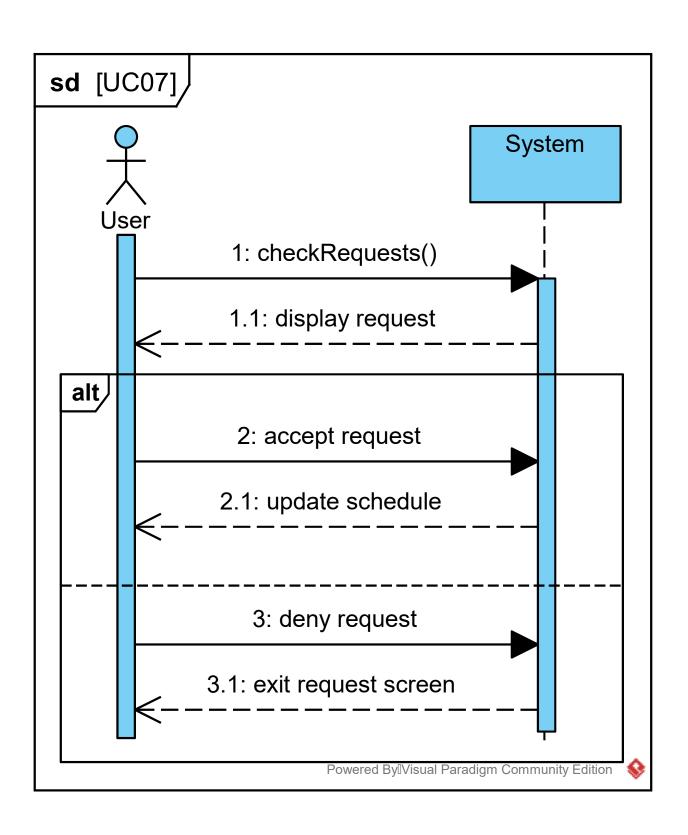


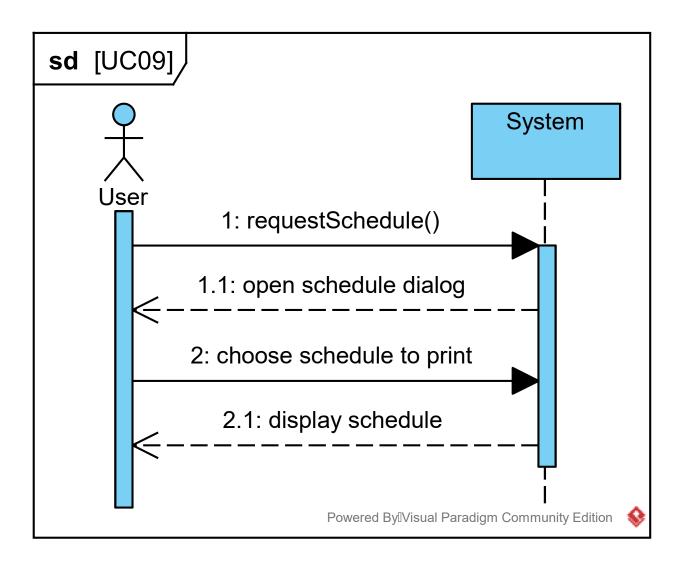


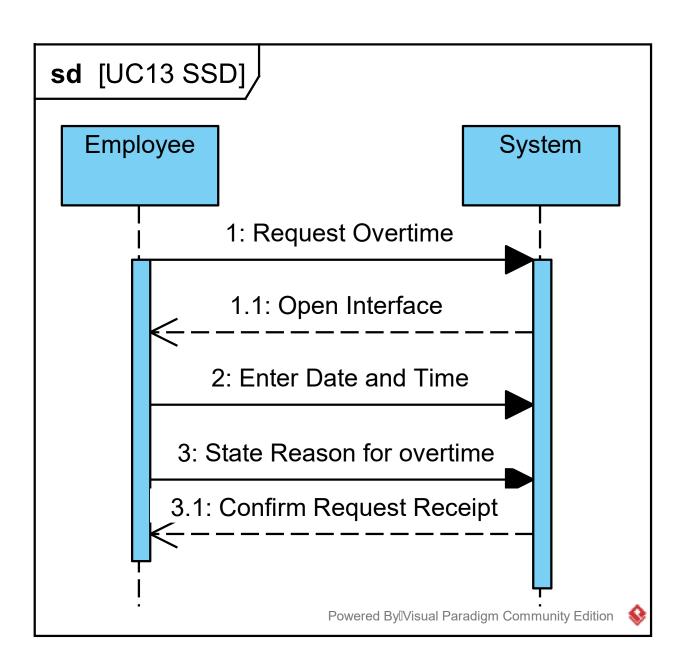


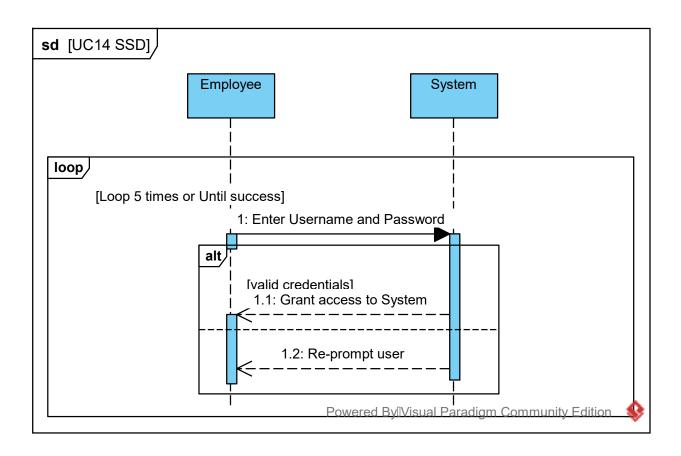


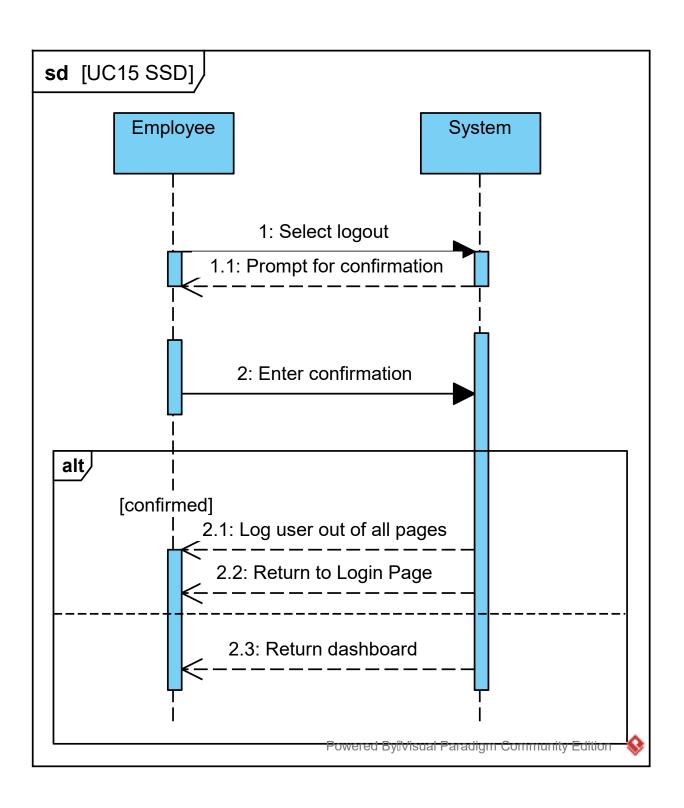


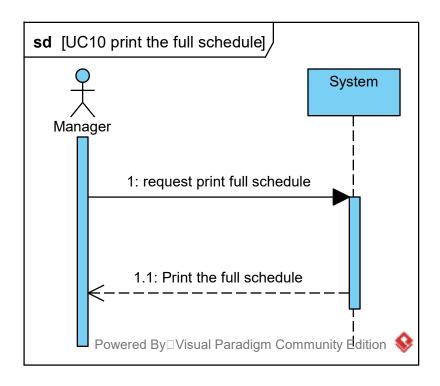


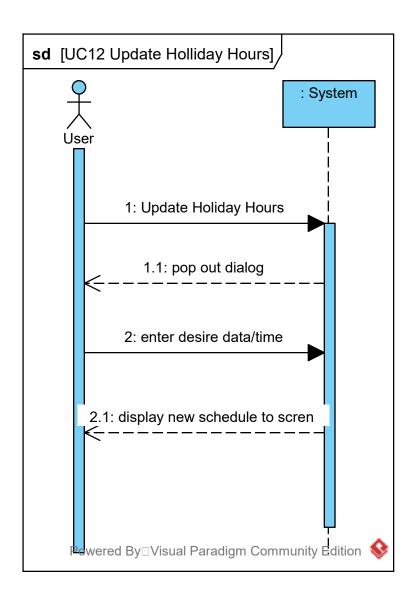


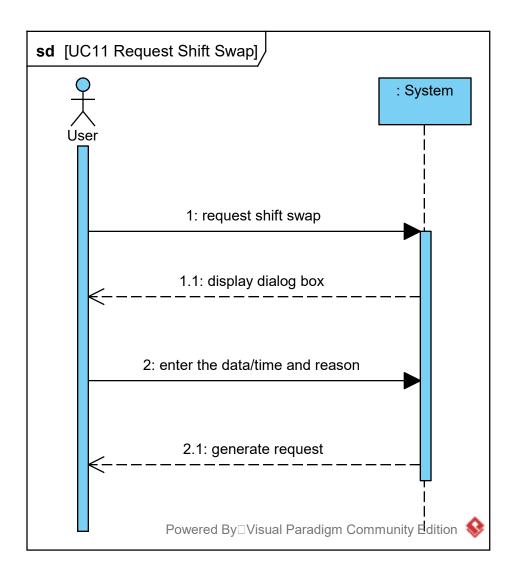




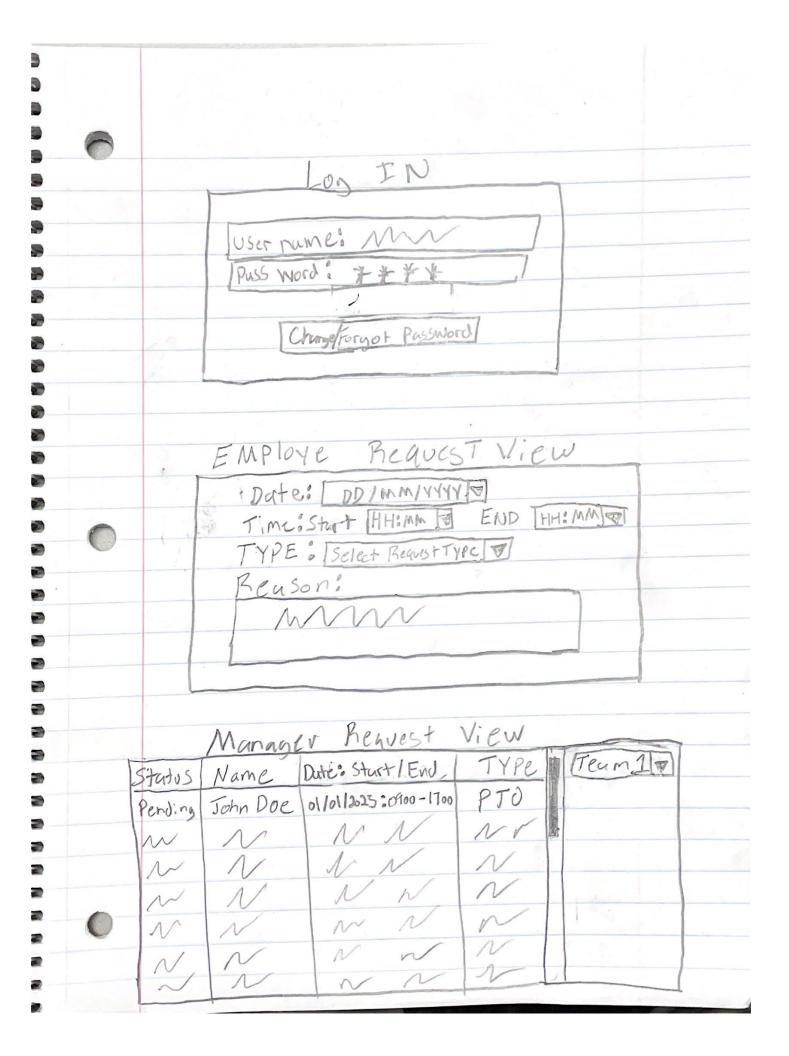


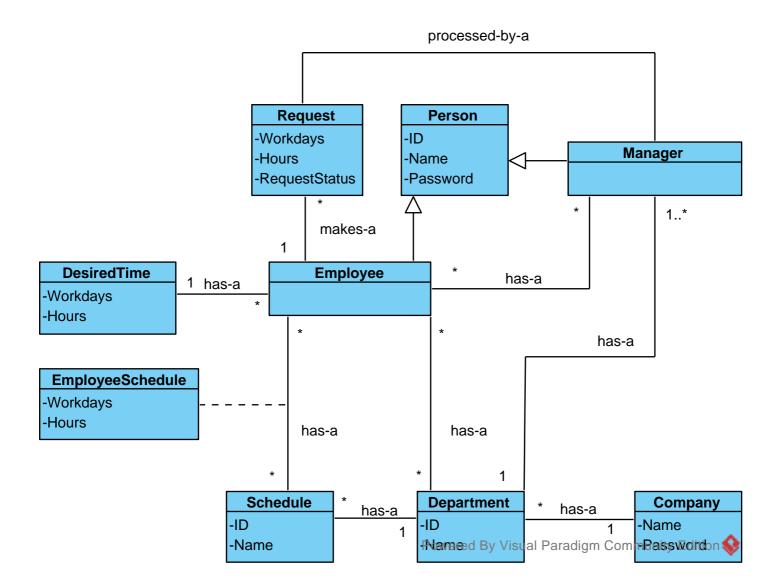






Employee View Logout Print Schoole Make a Request Manager View August -17 Logout Print Schwole Pending Request Add/Remove Employee





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1. Create Optimized Schedule					Х		X				X		X			
2. Adjust Employee Schedule			Х		X			х				X				
3. List Time Constraints			Х			х	X				X		Х			
4. Modify Employees	x	Х	Х											X	X	
5. Create or Remove Employees	X	Х														
6. List All Employees				X												
7. Request Schedule Changes					Х	Х	Х									
8. Approve/Deny Employee Requests			Х					X								
9. Print Schedules									х	х						

