Use Case 1: Staff Scheduling

Scope:

Restaurant Staff Weekly Schedule

Purpose:

To computerize the manual system used by local restaurant for schedualing staff members and supervisor.

Primary Actor:

Manager

Stakeholders and Interests:

- Manager
    - Wants accurate, fast staff scheduling system, and with less mistakes, as Digital data is easier to access than physical data, with minimum errors/mistakes.
- Supervisor
    - Wants faster access and faster scheduling system for easier use and with less efforts.
- Restaurant
    - Wants to use digital system to make the things faster and easier to manage, also store data digitally to get access easily and store it for a long time, and improve staff Scheduling service and management system.

Preconditions:

- Staff and Supervisor can only work within the three time slots.
- Manager must select one supervisor per slot.
- A supervisor can have 0 – 3 shifts per day. If a supervisor has more than 1 shift, it should be continous and maximum of 9 distinct shifts per week.
- Supervisor must select staff (receptionist, a chef, 2 cooks, 5 waitstaff) for their assigned shift.
- Cook and waitstaff can not work more than 6 distinct shift per week.
- Chef and a receptionist can have as many shift per week as necessary.
- Supervisor can select staff to work on a shift but a staff member can't select which supervisor to assign on a shift.

Success Guarantee (Postconditions):

- A document containing all the assigned supervisor with their staff data is generated for each day, with constant update in the payroll document with all the staff and supervisor's information and hours worked in a week.

Main Success Scenario:

1. Manager selects a supervisor and assign him a shift
2. Supervisor selects all the required staff members (1 receptionist, 1 chef, 2 cooks, 5 waitstaff) in their assigned shift.

Extensions:

a. Manager selects Supervisor
   1. Supervisor is available to work
   2. Supervisor has already worked 9 distinct hours this week
   3. Supervisor is already assigned to a shift, and the selected shift is not continous to the shift assigned to the supervisor
b. Supervisor selects Staff
   1. Supervisor successfully assign staff members to the perticular shift.
   2. Supervisor can't find any available staff member
c. Updating payroll
   1. Updating the payroll for every staff member for hours worked in a particular week.

Special Requirements:

- Touch screen UI on a large flat panel monitor. Text must be visible from 1 meter.
- Payroll must count the salary and reset every week.

Technology and Data Variations List:

*a. Staff Scheduling Information entered by a keyboard
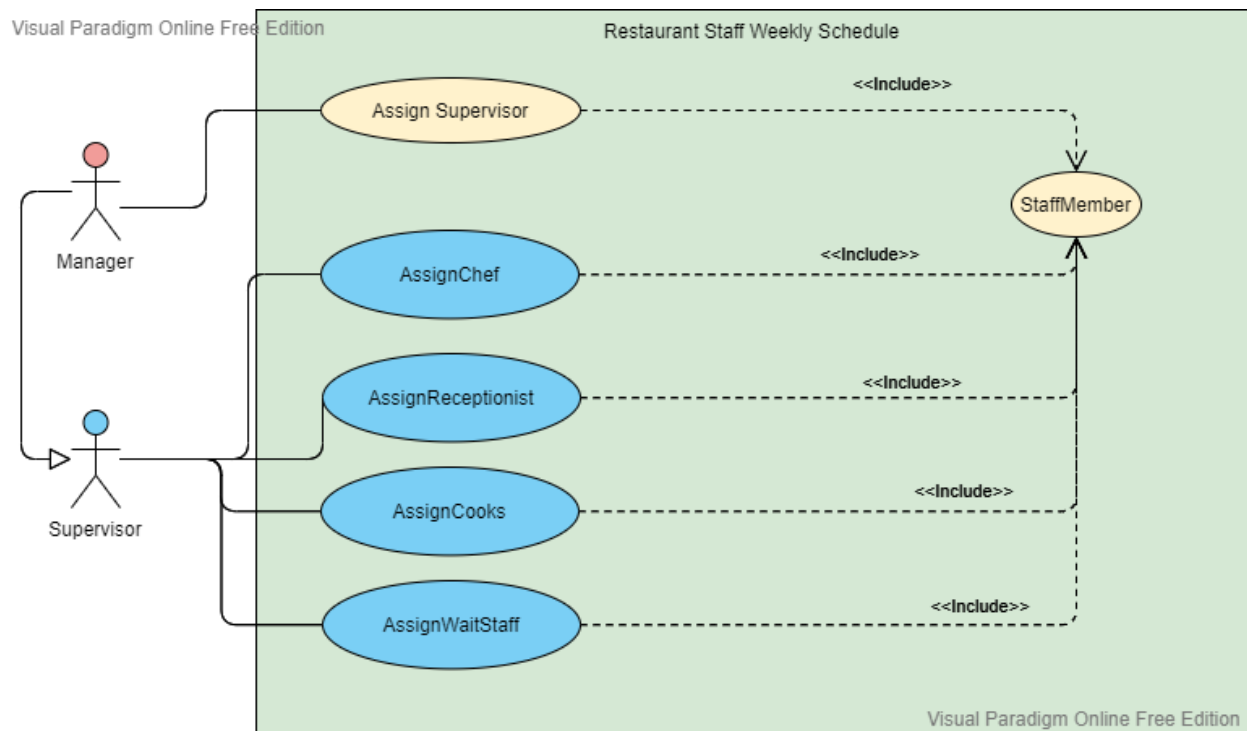*c. Manager selects the supervisor by the employee id and pin through keyboard.

Frequency of Occurrence:
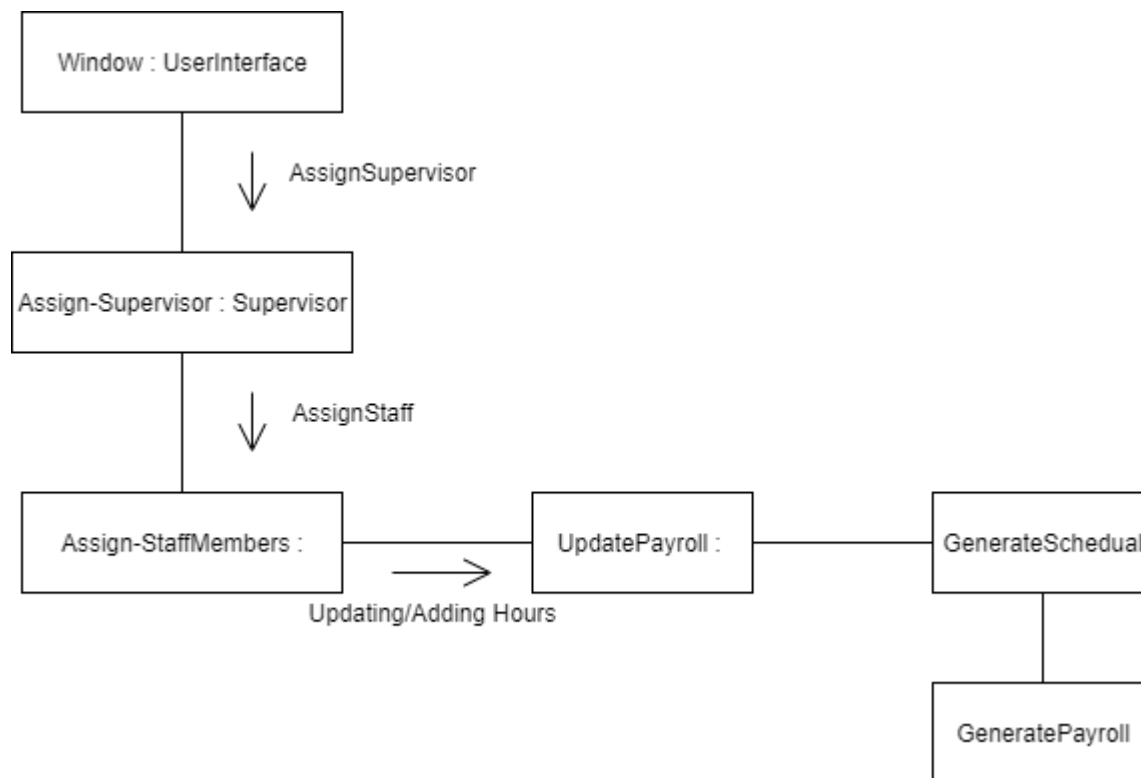
Could be in use every week

Miscellaneous:

- Good chefs are hard to find. The chefs are subject to the same contiguity constraint as supervisors

Use Case Diagram :

Restaurant Staff Weekly Schedule

<<Include>>

Assign Supervisor

Manager

StaffMember

<<Include>>

AssignChef

<<Include>>

AssignReceptionist
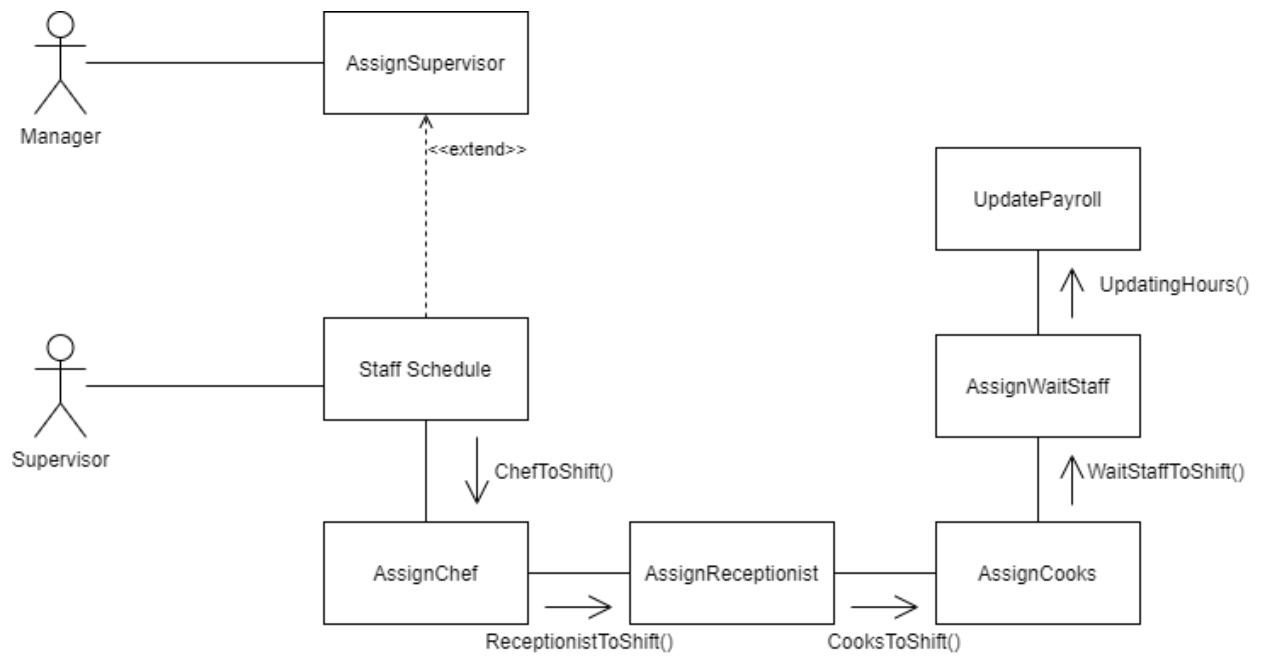
Supervisor

<<Include>>

AssignCooks

<<Include>>

AssignWaitStaff

Collaboration Diagram :

Communication Diagram :

Analysis Class Diagram :

StaffMember
- Name
- Phone Number
- IsAssigned
- AssignToWork()

Supervisor
- EmployeeID
- Salary
- WorkingHoursPerWeek
- AssignStaffMembers()
- UpdatePayroll()

0..n Supervisor 1

UpdatePayroll
- Hours
- EmployeeId
- PrintPayroll()

Chef
- EmployeeID
- Salary
- WorkingHoursPerWeek
- CanWork()

Receptionist
- EmployeeID
- Salary
- WorkingHoursPerWeek
- CanWork()

Cook
- EmployeeID
- Salary
- WorkingHoursPerWeek
- CanWork()

WaitStaff
- EmployeeID
- Salary
- WorkingHoursPerWeek
- CanWork()