Scheduling Module

Linda finds it difficult to manage employee schedules for multiple locations.

Different locations have different set hours with some locations staying open late most evenings. Linda prefers to have longer term employees (Keyholders) always on site.

Linda would like to schedule workshifts for her employees.

User Story

As the owner of this business, I would like to schedule workshifts for my employees by location.

Acceptance Criteria:

1. Must be able to record multiple workshifts for an employee at one time.
2. Must be able to query workshifts by location.
3. Must be able to query workshifts by employee.

A computer screen shot of a computer flow chart

Description automatically generated

Use Case Descriptions

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Create Employee Workshifts | | |
| Triggering Event | Planning for the a future work week | | |
| Brief Description | Allows the Owner to schedule workshifts for employees by location. | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | Workshifts are created and can now be queried | | |
| Flow of activities | Actor | | System |
|  | 1. | Requests to view already scheduled workshifts | Displays a list of locations and there required open and close hours. Prompts for selection. Displays a calendar prompting for start and end date. |
|  | 2. | Selects a location and enters a start and end date. | Displays a list of scheduled workshifts for the entered time period. Displays a list of employees including their name and job title, and prompts for selection. Prompts for day, start time and end time of workshift |
|  | 3. | Selects an employee. Enters date, start time and end time for the scheduled workshift | Creates a workshift ID  Adds workshift entry.  Displays a list of scheduled workshifts for the entered time period. Displays a list of employees including their name and job title, and prompts for selection. Prompts for day, start time and end time of workshift |
|  | 4. | Repeats above step until done | Displays a list of scheduled workshifts for the entered time period. Prompts to exit and save |
|  | 5. | Chooses to exit and save | Saves the data. Returns to the main menu |
| Exception Conditions | * Owner chooses to abort adding the Workshift | | |

A diagram of a diagram

Description automatically generated

.H File

Public Class Employee{

Int employeeID;

String name;

JobTitle jobtitle;

WorkShift workshift;

Int phone;

Int socialInsuranceNumber;

}

Public Class Location{

Int locationID;

String locationName;

WorkShift workShiftSet;

LocationHours locationHoursSet;

String address;

}

Public Class LocationHours{

String openTime;

String closingTime;

String weekday

Location location

}

Public Class WorkShift{

Int workShiftID;

String startTime;

String endTime;

String date;

Location location;

Employee employee;

}

Public Class JobTitle{

Int jobTitleID;

String jobTitleName;

EmployeeSet employee;

}

**UIController.h**

Public class requestWorkShift(){

//request to view workshifts that are already scheduled

}

Public class getWorkShifts(location,startDate,endDate){

// allows the user to request workshifts for that particular time period

// passes message to the Domain Controller

// displays list workshifts to the user

}

Public class selectWorkShift(employee,date,startTime,endTime){

// allows the user to add workshift

// passes message to the Domain Controller

// displays workshift to the user

}

Public class save(){

// sends request to domain controller to save

}

**DomainController.h**

Public class getLocations(){

// requests locations from the entity manger

// retrieves location data and returns to the UIController

}

Public class getWorkShifts(location,startDate,endDate){

// requests workshifts for that location and time period from the entity manger

// retrieves workshift data and returns to the UIController

}

Public class createWorkShift(employee,date,startTime,endTime){

//sends request to create a workshift

//receives new workshift and returns to UI

}

Public class generateWorkShiftID(){

//creates workShiftID

}

Public class save(){

//sends save to entity manager

}