Capstone group 4

A diagram of a company

Description automatically generated

**1. Manage Employee**  
**Description:**  
The Administrator can manage employee records, including adding new employees, editing existing employee details, and removing employees from the system. Employee records include information such as name, wage, availability, and residential location.

**Preconditions:**

* The Administrator is logged into the system.

**Postconditions:**

* The employee database is updated with changes.
* Changes to employee availability and details reflect in scheduling.

**Main Flow:**

1. The Administrator selects "Manage Employee."
2. The system displays options to add, modify, or delete employee records.
3. The Administrator chooses the desired action:
   * **Add Employee:** Enters details and submits.
   * **Modify Employee:** Selects an existing record, updates fields, and submits.
   * **Delete Employee:** Selects a record and confirms deletion.
4. The system validates input and updates the database.

**2. Manage Events**  
**Description:**  
The Administrator can create, edit, and delete events in the system. Events include details such as location, date, time, and assigned staff.

**Preconditions:**

* The Administrator is logged into the system.

**Postconditions:**

* The event schedule is updated with the latest information.

**Main Flow:**

1. The Administrator selects "Manage Events."
2. The system displays options to add, modify, or delete events.
3. The Administrator chooses the desired action:
   * **Add Event:** Enters event details, assigns staff, and submits.
   * **Modify Event:** Selects an event, updates fields, and submits.
   * **Delete Event:** Selects an event and confirms deletion.
4. The system validates input and updates the event schedule.

**3. Assign Driver/Server to Events**

**Description:**  
The Administrator assigns drivers and servers to events based on proximity, availability, and wage.

**Preconditions:**

* The Administrator is logged into the system.
* Employee and event records exist in the system.

**Postconditions:**

* Staff assignments are updated for the selected event.
* Assignment data is available for review in the weekly schedule.

**Main Flow:**

1. The Administrator selects "Manage Schedule" and chooses an event.
2. The system displays available employees based on scheduling constraints.
3. The Administrator selects drivers and servers to assign to the event.
4. The system calculates and optimizes assignments for efficiency.
5. The Administrator confirms the assignment.

**4. View Weekly/Monthly Schedule**

**Description:**  
The Owner/Operator and Administrator can view a summarized schedule of events, including details such as assigned staff, locations, and dates, in a weekly or monthly format.

**Preconditions:**

* The user is logged into the system.
* Events have been scheduled.

**Postconditions:**

* A clear, printable view of the schedule is displayed.

**Main Flow:**

1. The user selects "View Schedule."
2. The system retrieves all events for the selected time period (weekly/monthly).
3. The schedule is displayed, showing event details and assigned staff.
4. The user can filter or sort events based on criteria (e.g., date or location).