Staff

+ Id: int
+ Name: string
+ Position: string
+ TaskAllocations: List<TaskAllocation>

+ AssignToShift(shift: Shift)

StaffList

+ StaffMembers: List<Staff>

+ AddStaff(staff: Staff)
+ GetStaff(id: int): Staff

Shift

+ ShiftId: int+
+ StartTime: DateTime
+ EndTime: DateTime
+ AssignedStaff: List<Staff>

+ AddStaff(staff: Staff)

TaskAllocation

+TaskId: int
+TaskName: string
+AssignedStaff: Staff

+ AssignTask(staff: Staff)

ShiftList

+ Shifts: List<Shift>

+ AddShift(shift: Shift)

RealTimeStatusUpdate

+ Staff: Staff
+ Shift: Shift
+ StatusMessage: string
+ UpdateTime: DateTime

+ GetStatus: string
+ SetStatus (status:string)

ShiftAssignment

+ AssignmentId: int
+ Shift: Shift
+ AssignedStaff: Staff

+ GetShiftDetails : public
+ GetAssignedStaff : public

Code block

```
+----------------------------------+
|               Staff              |
+----------------------------------+
| - Id: int                        |
| - Name: string                   |
| - Position: string               |
| - TaskAllocations: List<TaskAllocation> |
+----------------------------------+
| + AssignToShift(shift: Shift)    |
| + GetTaskAllocations(): List<TaskAllocation> |
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+----------------------------------+
|           TaskAllocation         |
+----------------------------------+
| - TaskId: int                    |
| - TaskName: string               |
| - AssignedStaff: Staff           |
+----------------------------------+
| + AssignTask(staff: Staff)       |
| + GetTaskDetails(): string       |
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+----------------------------------+
|               Shift              |
+----------------------------------+
| - ShiftId: int                   |
| - StartTime: DateTime            |
| - EndTime: DateTime              |
| - AssignedStaff: List<Staff>     |
+----------------------------------+
| + AddStaff(staff: Staff)         |
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+----------------------------------+
|             StaffList            |
+----------------------------------+
| - StaffMembers: List<Staff>      |
+----------------------------------+
| + AddStaff(staff: Staff)         |
| + GetStaff(id: int): Staff       |
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                  *
+----------------------------------+
|             ShiftList            |
+----------------------------------+
| - Shifts: List<Shift>            |
+----------------------------------+
| + AddShift(shift: Shift)         |
+----------------------------------+


+----------------------------------+
|          Program (Main)          |
+----------------------------------+
| + AddStaff(staffList: StaffList) |
| + AddShifts(shiftList: ShiftList) |
| + AssignStaffToShift(staffList: StaffList, shiftList:
ShiftList) |
| + AllocateTasksToStaff(staffList: StaffList) |
+----------------------------------+
```