### **Models**

### **User Model**

* **UserId** (UUID) – Unique identifier for the user.
* **FirstName** (VARCHAR) – User’s first name.
* **LastName** (VARCHAR) – User’s last name.
* **EmailAddress** (VARCHAR) – User’s email address, unique for each user.
* **Role** (CHAR) – User’s role: E for Admin, A for Agent.
* **EligibleShifts** (ARRAY) – Array of eligible shifts for the user.
* **CreatedDate** (TIMESTAMP) – Date when the user was created.
* **UpdatedDate** (TIMESTAMP) – Date when the user was last updated.

### **ShiftType Model**

* **ShiftTypeId** (UUID) – Unique identifier for the shift type.
* **ShiftName** (VARCHAR) – Name of the shift type (e.g., “Surgical Support Shift”, “Clinical Care Shift”).
* **DefaultDuration** (INT) – Default duration of the shift in hours.
* **ShiftCategory** (VARCHAR) – Broader category for the shift type (optional).

### **Shift Model**

* **ShiftId** (UUID) – Unique identifier for each shift.
* **ShiftTypeId** (UUID) – ID of the associated shift type.
* **UserId** (UUID) – ID of the assigned Agent.
* **ShiftStartTime** (TIMESTAMP) – Start time of the shift.
* **ShiftEndTime** (TIMESTAMP) – End time of the shift, calculated based on the default duration or adjusted by the Admin.
* **ShiftDuration** (INT) – Duration of the shift in hours, recalculated if the end time is adjusted.
* **ShiftLocation** (VARCHAR) – Location of the shift (optional).
* **AssignedBy** (UUID) – ID of the Admin who assigned the shift.
* **CreatedDate** (TIMESTAMP) – Date when the shift was created.
* **UpdatedDate** (TIMESTAMP) – Date when the shift was last updated.