Sequence diagram with participants:

- **Simulator**
- **MqttService - Queue (Dapr)**
- **AshaService**
- **Store (DAPR)**
- **Request Queue (DAPR)**
- **VisitSchedule Queue (DAPR)**
- **ANMService**

Messages:

- AshaService → MqttService - Queue (Dapr): Subscribe(OnStart)
- AshaService → VisitSchedule Queue (DAPR): Subscribe (OnStart)
- ANMService → Request Queue (DAPR): Subscribe OnStart
- Simulator → MqttService - Queue (Dapr): RegisterCitizen
- MqttService - Queue (Dapr) → AshaService: Read CitizenRequest
- AshaService → Store (DAPR): Save Citizen Request
- AshaService → Request Queue (DAPR): Validate and Submit Citizen Request
- ANMService → Request Queue (DAPR): Read Citizen Reuqest
- ANMService: Generate Visit Schedule
- ANMService → VisitSchedule Queue (DAPR): Publish VisitSchedule
- VisitSchedule Queue (DAPR) → AshaService: Read Visit Schedule
- AshaService → Store (DAPR): Save Schedule

Notes:

- Ashaservice generates citizen request for a specific service code like vaccination, maternity care, accidental treatment etc.
- ANMService – It's a centralize service which receives the citizen request and basis service code generates visit schedule when Ashawork should visit.
- Ashaservice reads this visit schedule and saves it locally which can be used anytime by Ashaworker