

Assumptions:

1. All appointments will always be exactly 15 mins
2. Appointments that are reserved but not confirmed for 30 mins can still be confirmed as long as they are not requested by another patient
3. Users (Provider/Patients) and admin scenarios will be managed by another service

Areas for improvement:

1. SQL Handling - currently is more of a mockup than a functioning sql interface
 - a. Create database sharding system
2. Improve scenario checking for confirming appointments
3. Build out infrastructure for gRPC server
4. Create error handling and logging/tracing system
5. Create tests for various components