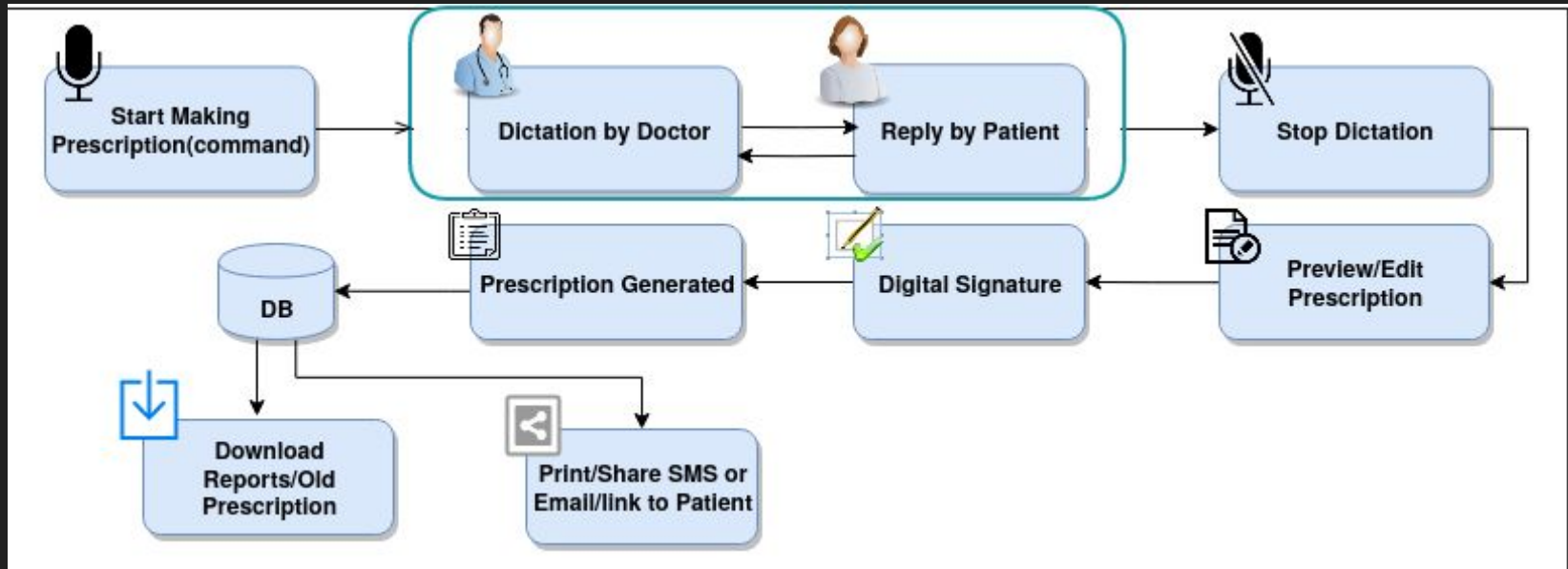# IDEA / APPROACH DETAILS

o Organization name   : Bajaj Fin Serv
o Problem Statement   : Voice Prescription(AP63)
o Team Name   : EclecticSquad
o Team Leader Name   : Mr. Akash Gudadhe
o College Code   : 1-3508324089

Solution :-

❏ Prescription data can be generated automatically using our unique Speech Recognition module.
❏ Adoption of voice based module could eliminate medication/prescription errors.
❏ Doctor can create,preview,edit and share prescription using voice based menu.
❏ Doctor can add his/her digital signature for authentication using Hashing algorithm.
❏ Doctor will be able to view which data is inserted at every moment when data is captured by speech recognition module.
❏ Patient can use his old prescriptions from centralized database.
❏ Patient can get notification of dosage details and about next visit.
❏ Patient will get .mp3 file of prescription if he has vision-aid problem.
❏ Patient can share his prescription with chemists and doctors.
❏ Admin will get all prescription records according to HIPAA compliance, which can be used for further research and analysis and Electronic Health Records generation.
❏ QR code generated by our software will drop need of manual entry of medicine inventory at medical stores.
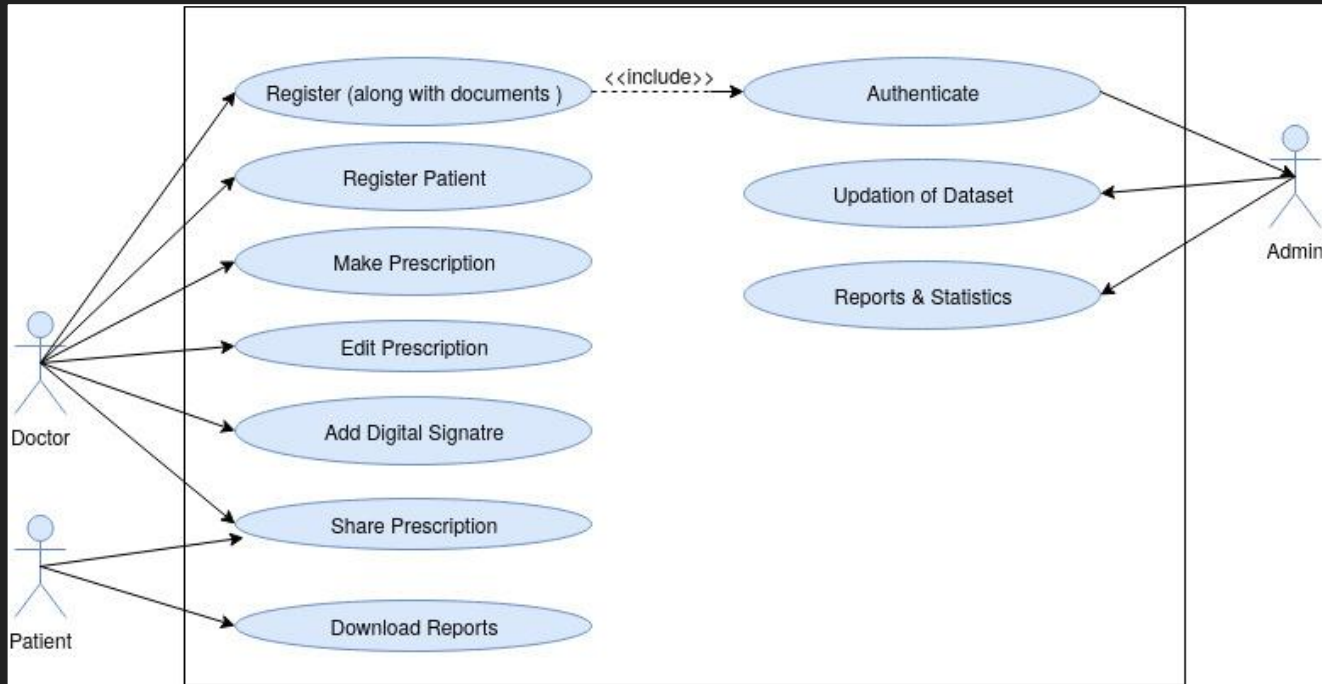
Prototype

Technology Stack

Platform	1. Android, iOS 2. Python
Database	1.SQLite , Firebase 2. PostgreSQL
Technology	Natural Language Processing (Mozilla Speech-to-text, AndroidMarryTTS, OpenEars)

Note :- All Libraries are free and open source.

Use Case

Show Stopper

- Native Language support for understanding of dosage details.
- Keeping medical history for each patient which will also avoid threats
- Data-set generation for data analytics and machine learning applications

Dependencies

- Speech to text library(API)