# VMedicine

## Working model:

- Scanning text from the Doctor prescription and analysis sheet and updating it in the medical bio database of the user.

- If the user scans the QR in the medicine which the pharmacist gives for casual usage like common cough without prescription The following actions will happen.
  - The data of the medical bio will be matched with the tablet given.
  - If something seems usual the AI should prompt the danger message with the reason.
  - The user will also see the how to use it instructions for specific drugs according to the medical bio data.
    - The AI should also say the post reaction of the specific drug.

- There will be an AI assistant to answer the queries related to the disease which they have or respond to their symptoms
  - The data will also be stored for further medical advice by doctor
  - The AI will also suggest some diet or exercise for the disease they have and also to maintain health

## Technologies used:

1. Android Studio – For mobile app development.

2. Google Firebase – Secure storage of user medical data (Firestore/Realtime DB).

3. AI/APIs for Drug Validation & Health Insights:

4. OpenFDA API – Fetch FDA-approved drug labels, side effects, and recalls.

5. RxNorm API – Standardize drug names and identify interactions (NIH database).

6. DrugBank API – Detailed drug pharmacology and interaction checks (freemium).

7. MediLook API – QR/barcode scanning for drug identification.

8. IBM Watson Health – NLP for parsing prescriptions and advanced AI analysis (tier-based).

9. QR/Barcode Library – ZXing (GitHub) to decode medication QR codes.