SMART INDIA HACKATHON'20



PROBLEM STATEMENT

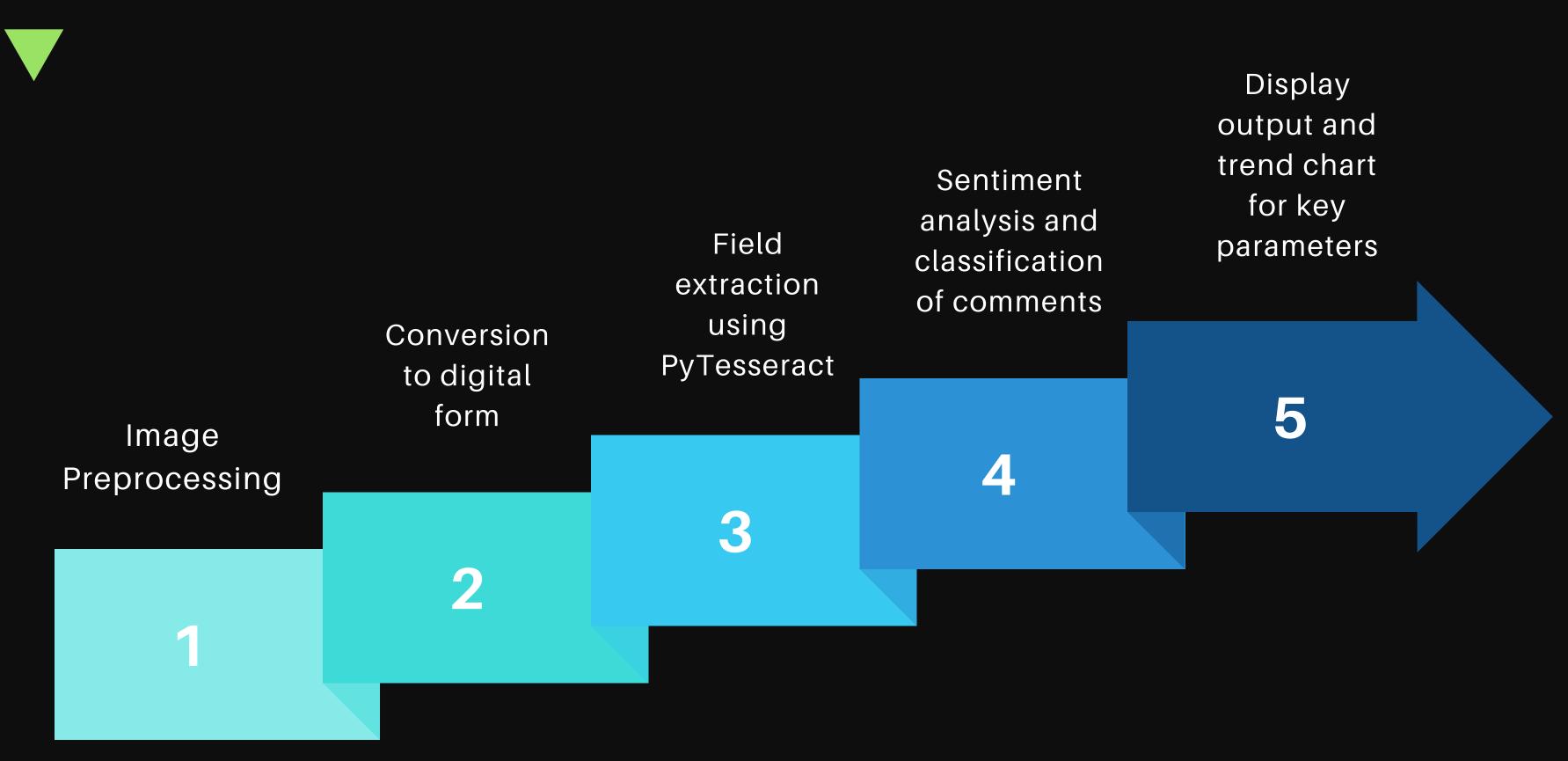
LAB REPORT

Insurance companies regularly gets health check reports submitted by potential buyers of insurance. We DIGITISATION/OCR need a way to digitize different kinds of printed lab reports / health check reports to discrete values of each parameter captured. Conversion to a standardized set of digitized value will help in automating lot of backend approval process. Ability to read and classify comments/observations for common parameters will be a big plus When a customer is uploading his health check report regularly, then also a trend chart can be plotted for key parameters. Few sample reports will be provided to the participating teams. Test will be based on that as well as unknown set of health check reports post completion.

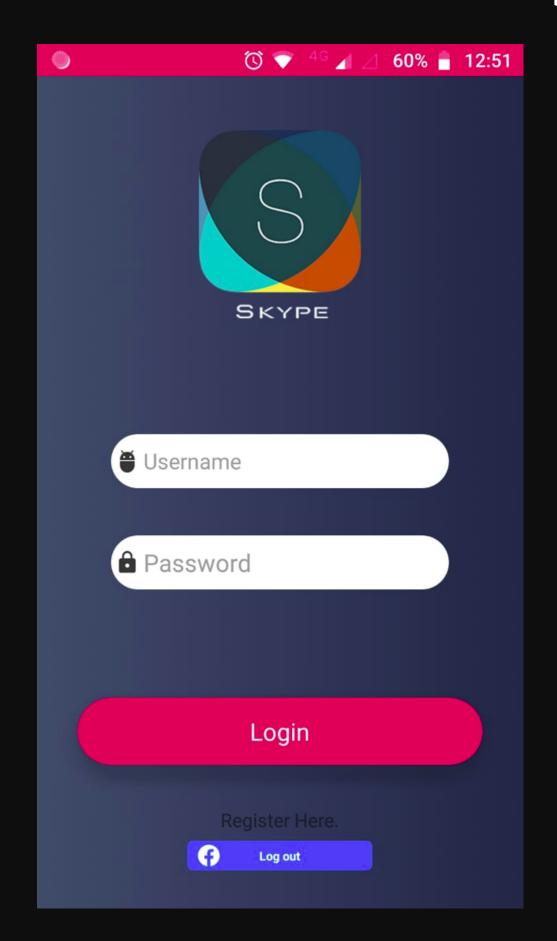
TECHNOLOGY STACK

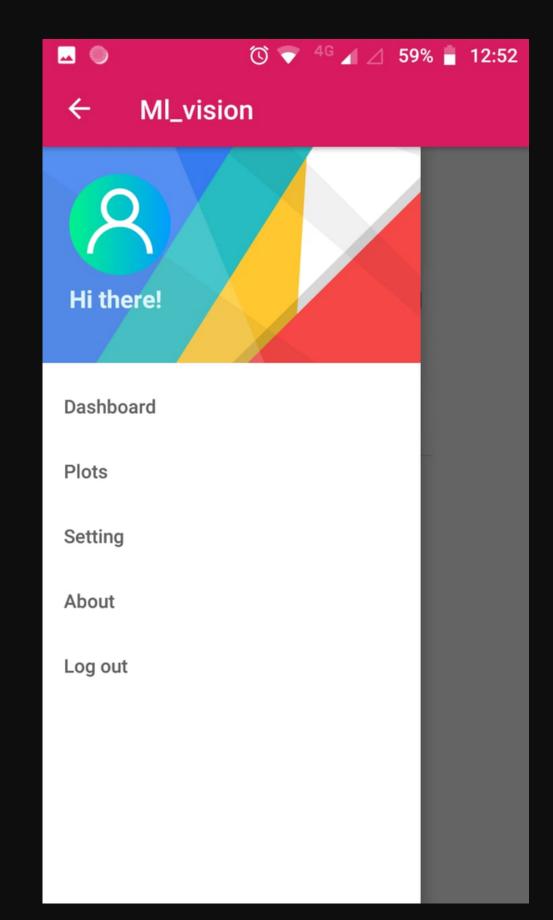
- PYTORCH
- FIREBASE
- ANDROID STUDIO
- JAVA
- PYTHON
- OPEN CV
- FLASK
- PYTESSERACT

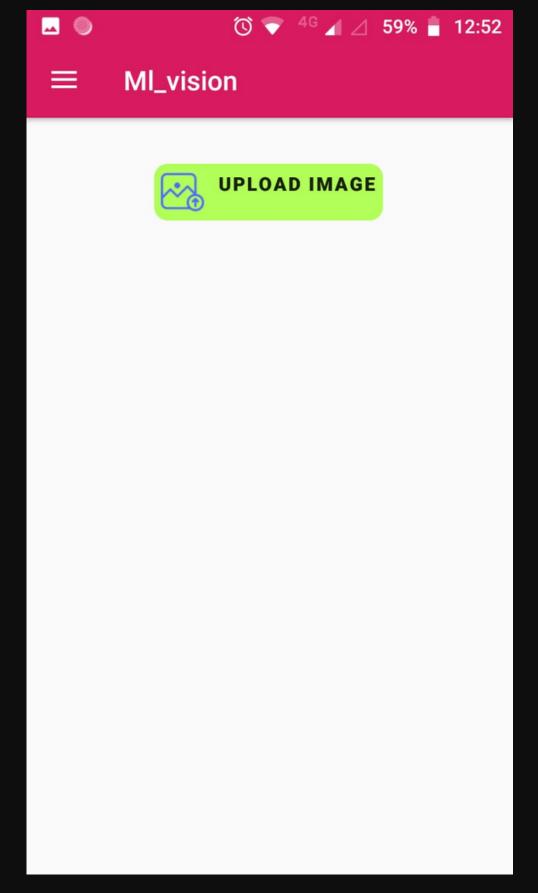
PLAN OF ACTION

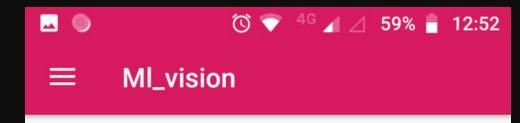


SAMPLE USER INTERFACE













Total Protein 5.30 g/dl 66-83 Albumin 3.2 g/dL. 35-52 Globulin 24 g/dl 2.3-3.5 opal AG. ratio 15 12-15 Bilirubin (Total) 4.22 mgd 0.31.2 Bilirubin (Direct) 2.28 mg/d 0.0-0.2 Bilirubin (Indirect) 1.94 mg/dl 0.4-1.0 Canaan SGOT- Aspartate 19.0 wun <50 Transaminase (AST) verenPae SGPT- Alanine 44.0 tu <50 Transaminase (ALT) Alkaline Phosphatase 468 1A 30-120 Per AN Bae Urea 33.5 mgd 17.0 43.0 Creatinine 0g mg/dl 0.9-1.3 eGFR 90.29 mi/mirv1.73, ORD mm Sodium 137.0 mmol/L 136 - 146

Potassium 35 mmol/L 3.5-5.1

