ROOT CAUSE ANALYSIS

PROBLEM ISHIKAWA & WHY's

STORY TOOL

1. PHARMACIST EXP DIFFICULTIES IN INVENTORY ~~IN TESTIMONY~~ IN TERMS OF PERFORMING INVENTORY IN MEDICINE.

2. PHARMACIST PERFORM ~~INVENTORY MANUALLY~~ EXPERIENCES ISSUES SUCH AS ~~WHICH RESULTS HUMAN ERROR~~ SUCH AS, EXPIRED MEDICINE NOT BEING DISPENSED, PRIOR RECORD SORTS

3. INVENTORY IS BEING DONE MANUALLY, IT IS PRONE TO HUMAN ERROR.

4. ~~ALTHOUGH~~ ALTHOUGH THESE ISSUES ~~ARE~~ ARE SOLVED BY IMPLEMENTING PROGRAMS OR SYSTEM AUTOMATING INVENTORY. HOWEVER THESE SYSTEM ARE NOT PERFECT.

LIMITATIONS

IMPT. OF PRECISION INVENTORY & FORECASTING

SOP

1. Implementation of AI in Inventory management

2. Expiration

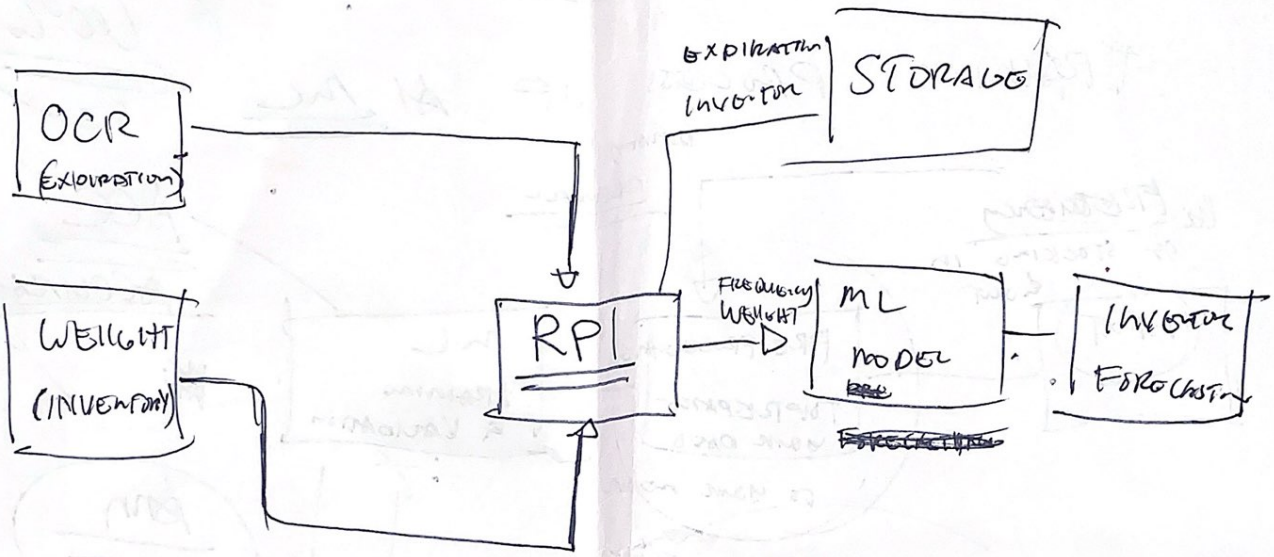
FAIL

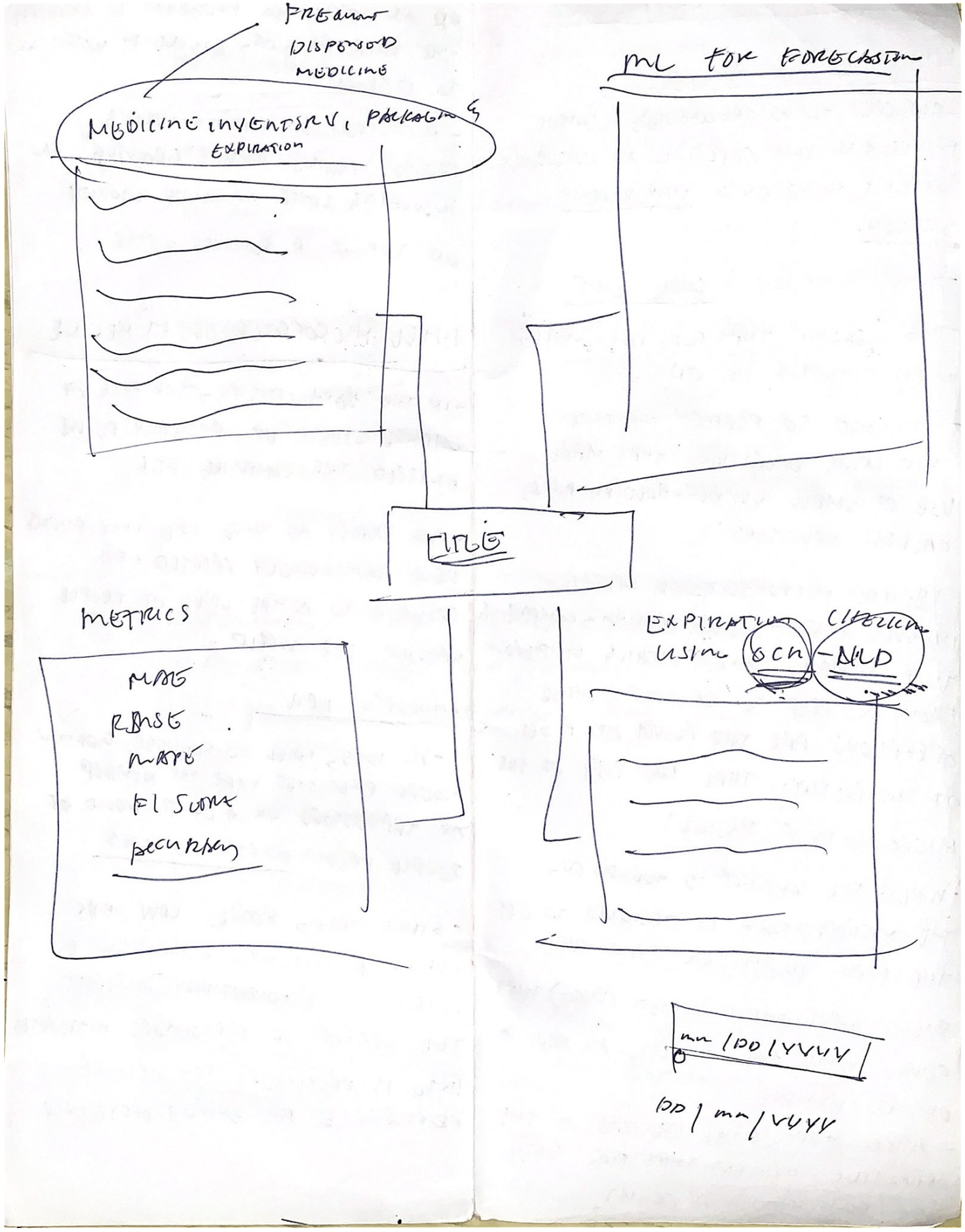
5. TITLE

WHICH IS WHY THE GOAL OF THIS RESEARCH IS TO DESIGN AN ~~ALGORITHM~~ MEDICINE D..

Theory

CONCEPT OF THE STUDY




PREGNANT
DISPOSED
MEDICINE
MEDICINE INVENTORY, PACKAGING & EXPIRATION
ML FOR FORECASTING
FIFO
METRICS
MAE
RMSE
MAPE
F1 SCORE
RECURRENT
EXPIRATION
USING
SCH
-MLD
mm/DD/YYYY
DD/mm/YYYY

MEASURABLE

CLAIM: ML CAN BE USED FOR INVENTORY FORECASTING : >90%

1.) DETERMINE THE ACCURACY OF THE MACHINE LEARNING ALGORITHM.

2.) DETERMINING THE PERFORMANCE CLASSIFICATION OF THE ML IN TERMS:

- ACCURACY
- F1-SCORE ✓
- PRECISION ✓
- RECALL ✓

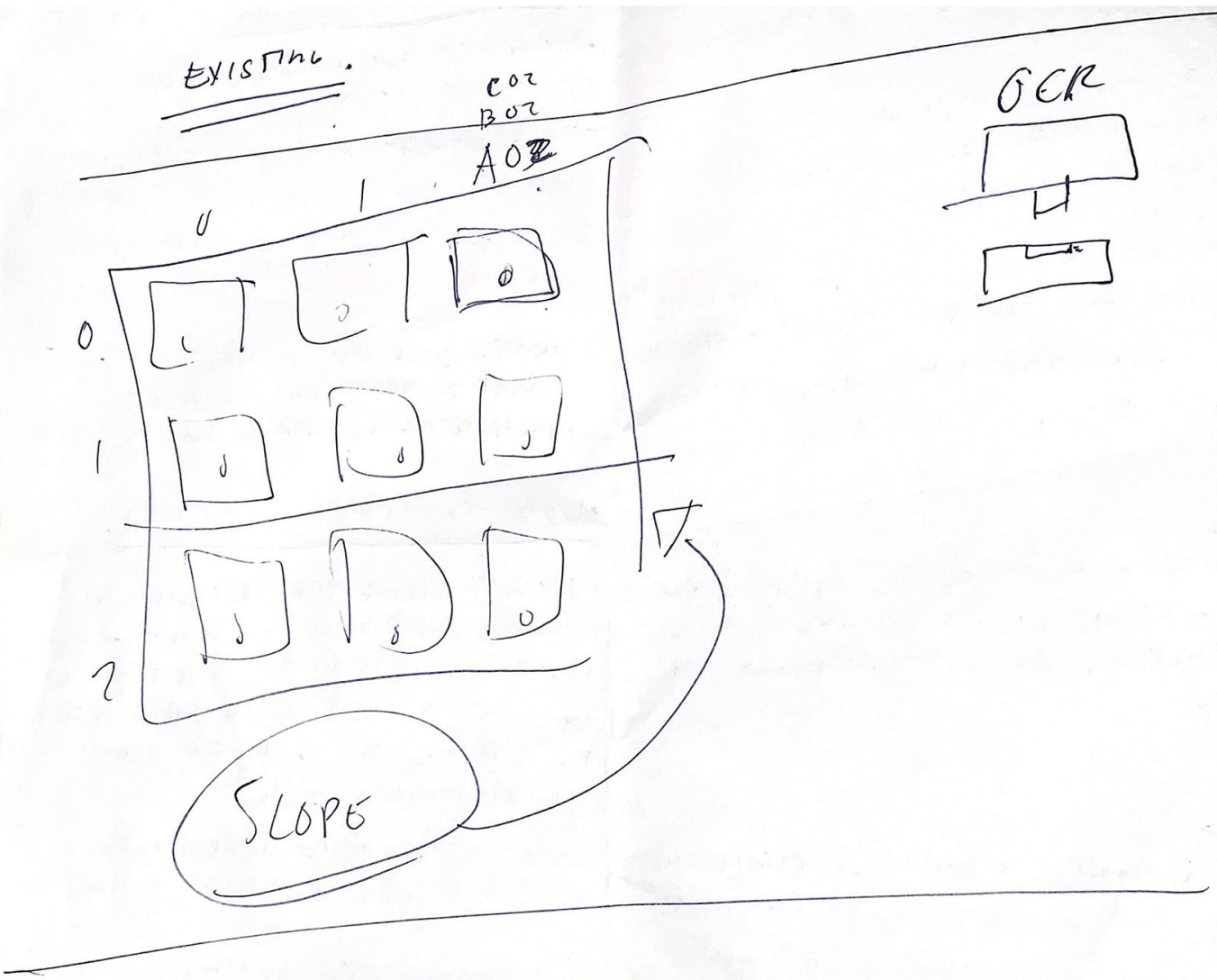
MAPE - MAE - RMSE

MEAN AVERAGE PERCENTAGE ERROR

2.) DETERMINE THE ACTUAL PREDICTION ACCURACY OF THE MODEL BY COMPARING WITHIN THE ACTUAL REMAING SUPPLY USING THE TRADITIONAL IN TERMS OF:

- MAPE
- MAE
- RMSE

3.) DETERMINE THE ACCURACY & RELIABILITY OF THE OCR MODULE & WEIGHT SENSOR FOR EXPIRATION CHECKING



~~MEDICINE DRUG INVENTORY MONITORING WITH EXPIRATION CHECKING~~ &

MEDICINE DRUG INVENTORY ~~FORECASTING~~ WITH EXPIRATION CHECKING USING MACHINE LEARNING