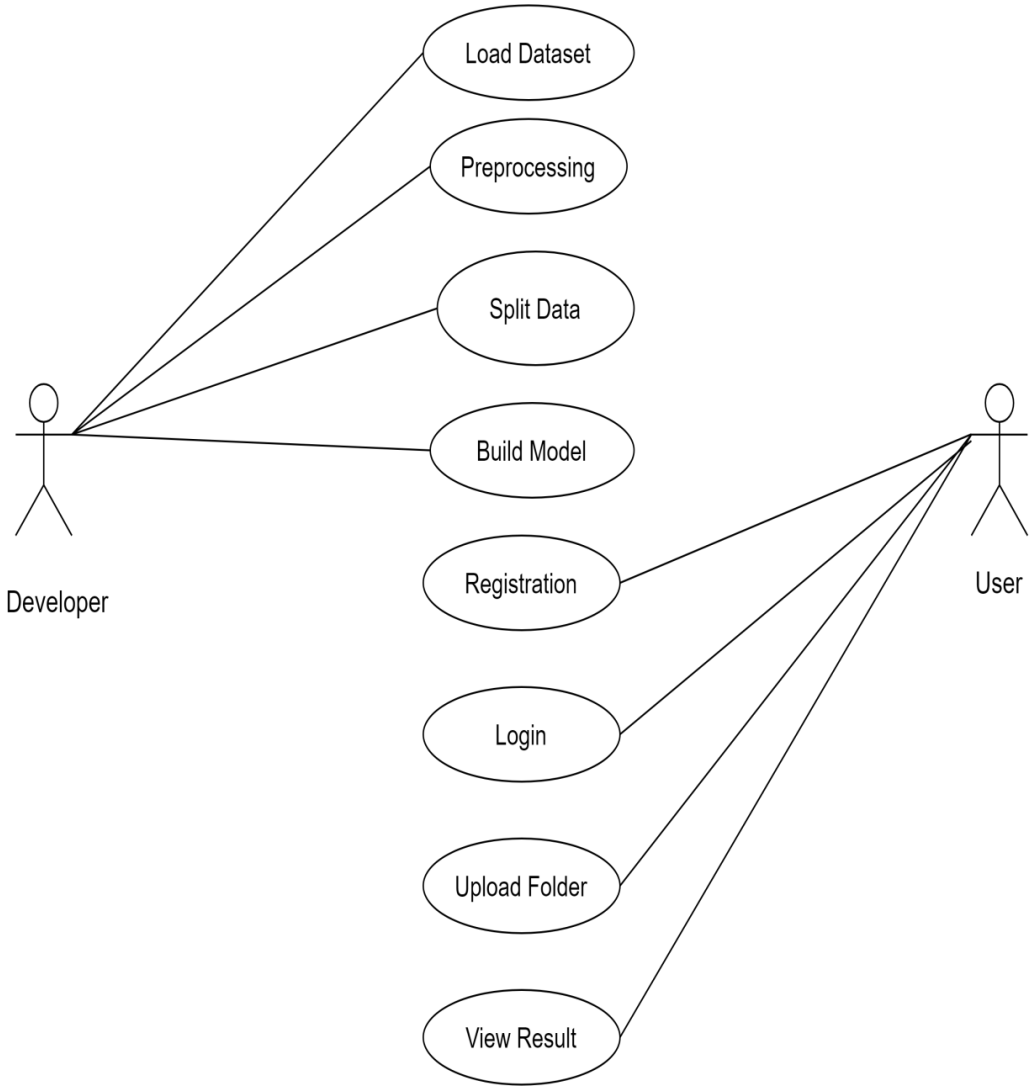
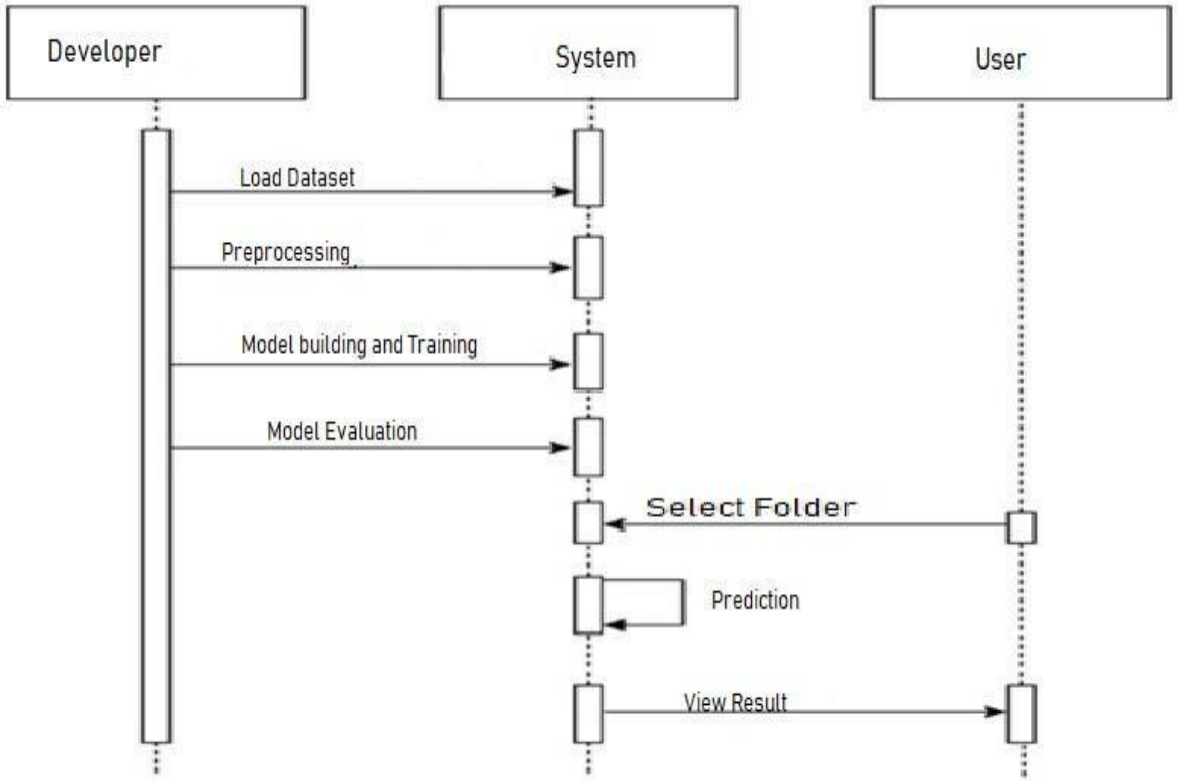
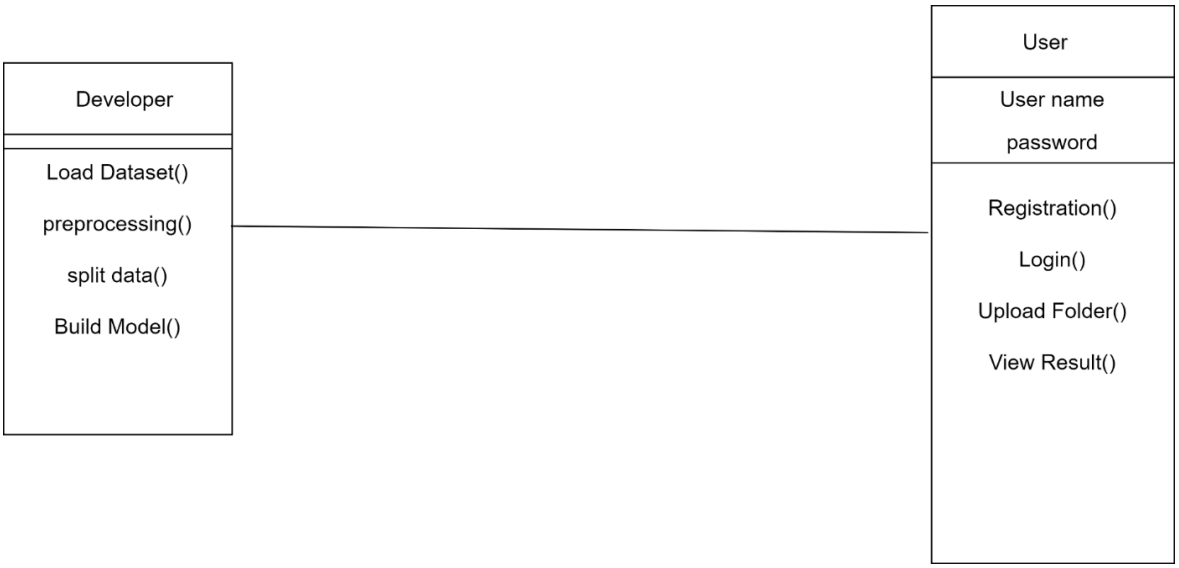
USE CASE DIAGRAM

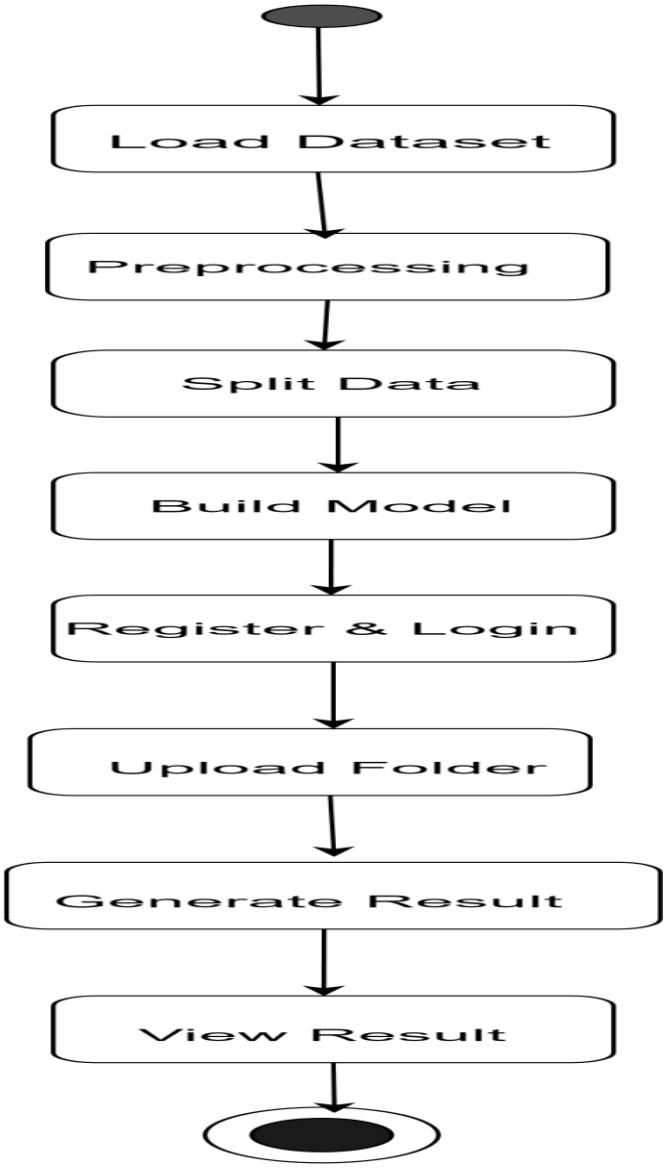


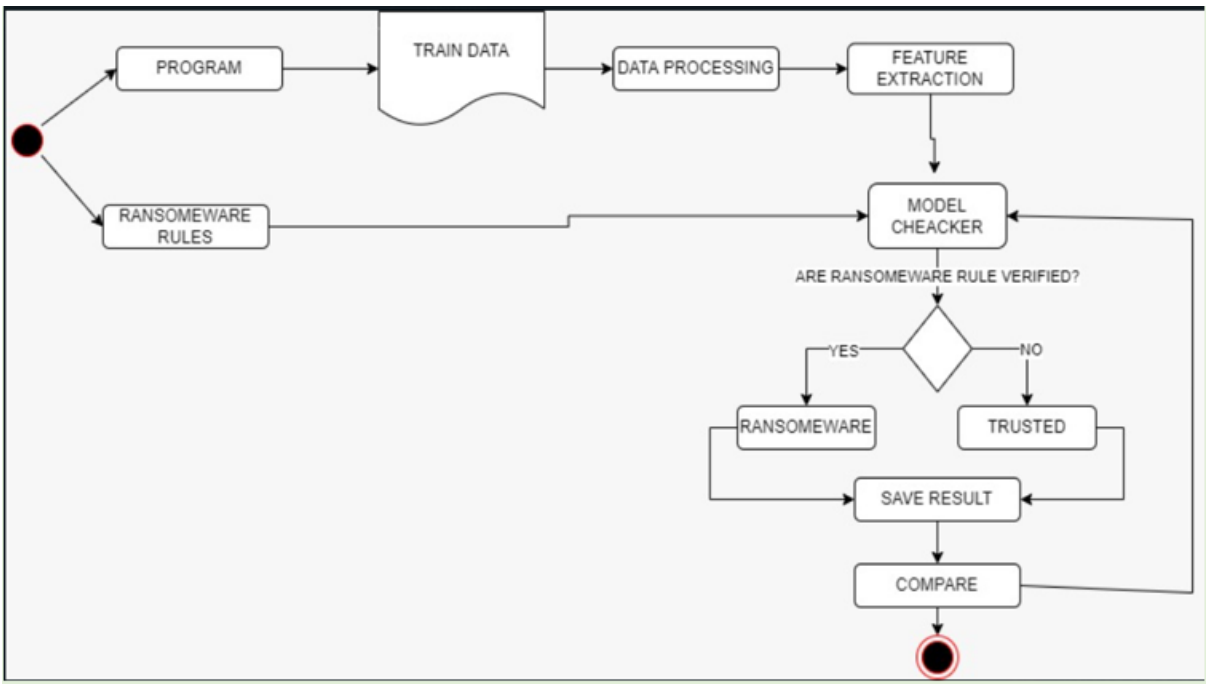
SEQUENCE DIAGRAM

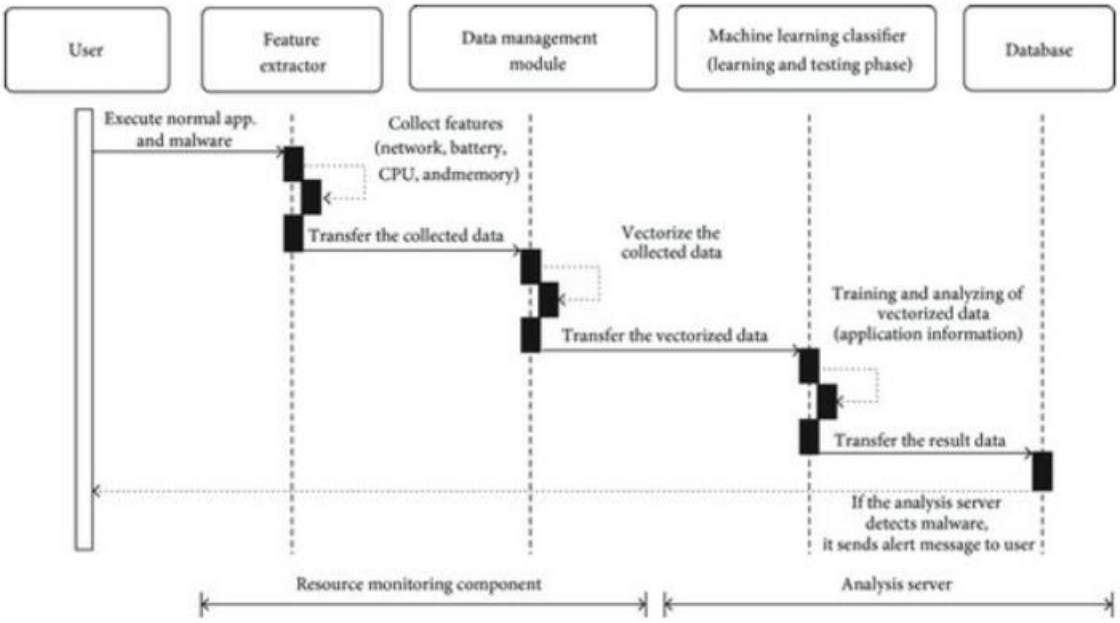




ACTIVITY DIAGRAM




PROGRAM
TRAIN DATA
DATA PROCESSING
FEATURE EXTRACTION
RANSOMEWARE RULES
MODEL CHEACKER
ARE RANSOMEWARE RULE VERIFIED?
YES
NO
RANSOMEWARE
TRUSTED
SAVE RESULT
COMPARE


User
Feature extractor
Data management module
Machine learning classifier (learning and testing phase)
Database
Execute normal app. and malware
Collect features (network, battery, CPU, andmemory)
Transfer the collected data
Vectorize the collected data
Transfer the vectorized data
Training and analyzing of vectorized data (application information)
Transfer the result data
If the analysis server detects malware, it sends alert message to user
Resource monitoring component
Analysis server