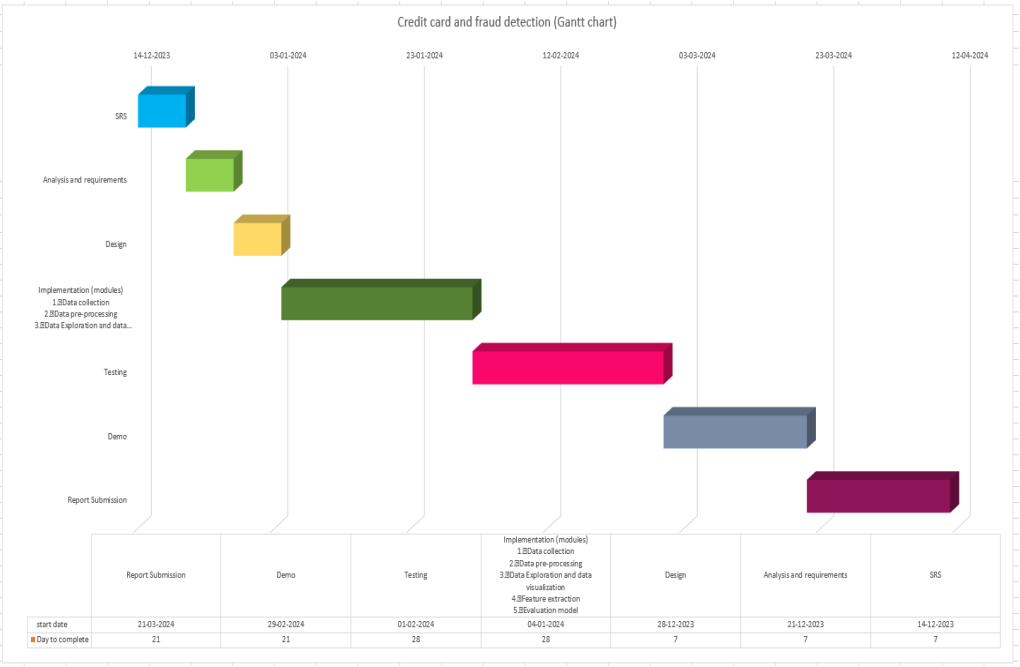
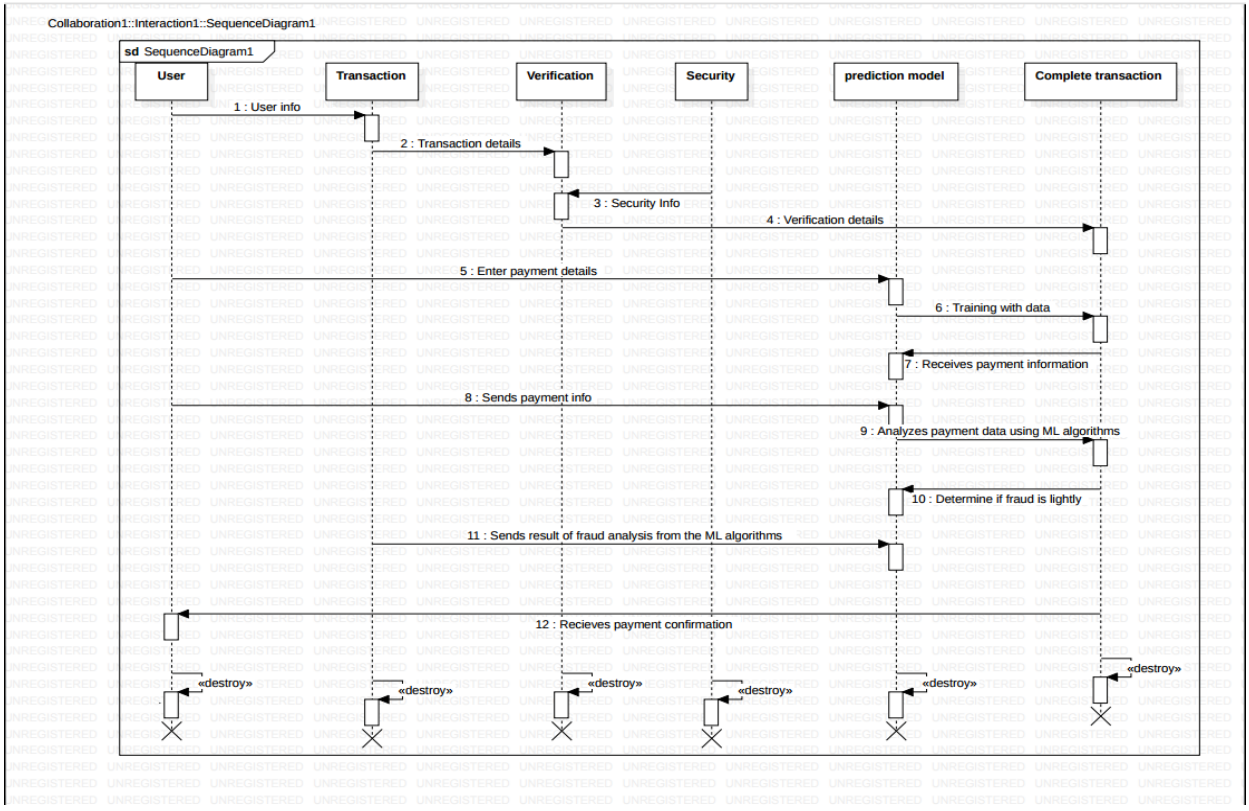
1)GANTT CHART

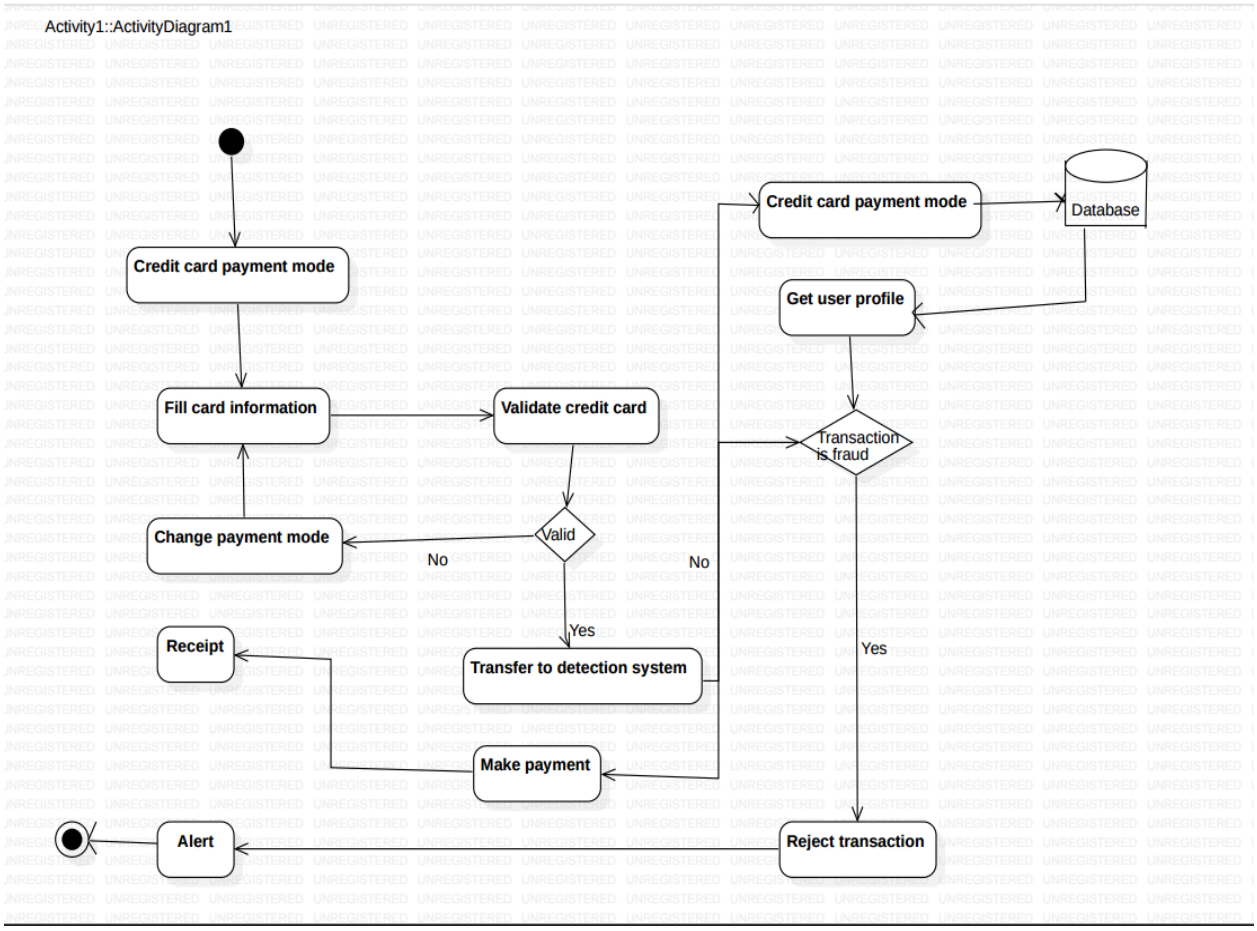
	start date	Day to complete
SRS	14-12-2023	7
Analysis and requirements	21-12-2023	7
Design	28-12-2023	7
Implementation (modules)		
1.Data collection		
2.Data pre-processing		
3.Data Exploration and data visualization		
4.Feature extraction		
5.Evaluation model	04-01-2024	28
Testing	01-02-2024	28
Demo	29-02-2024	21
Report Submission	21-03-2024	21



2)SEQUENCE DIAGRAM



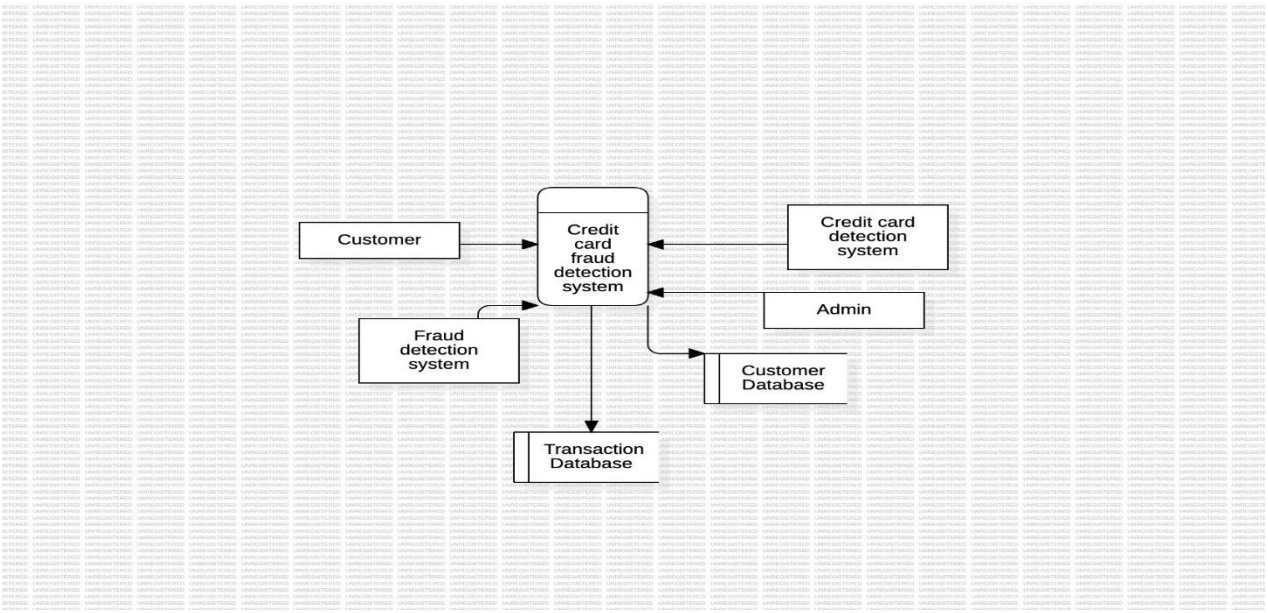
3)Activity Diagram



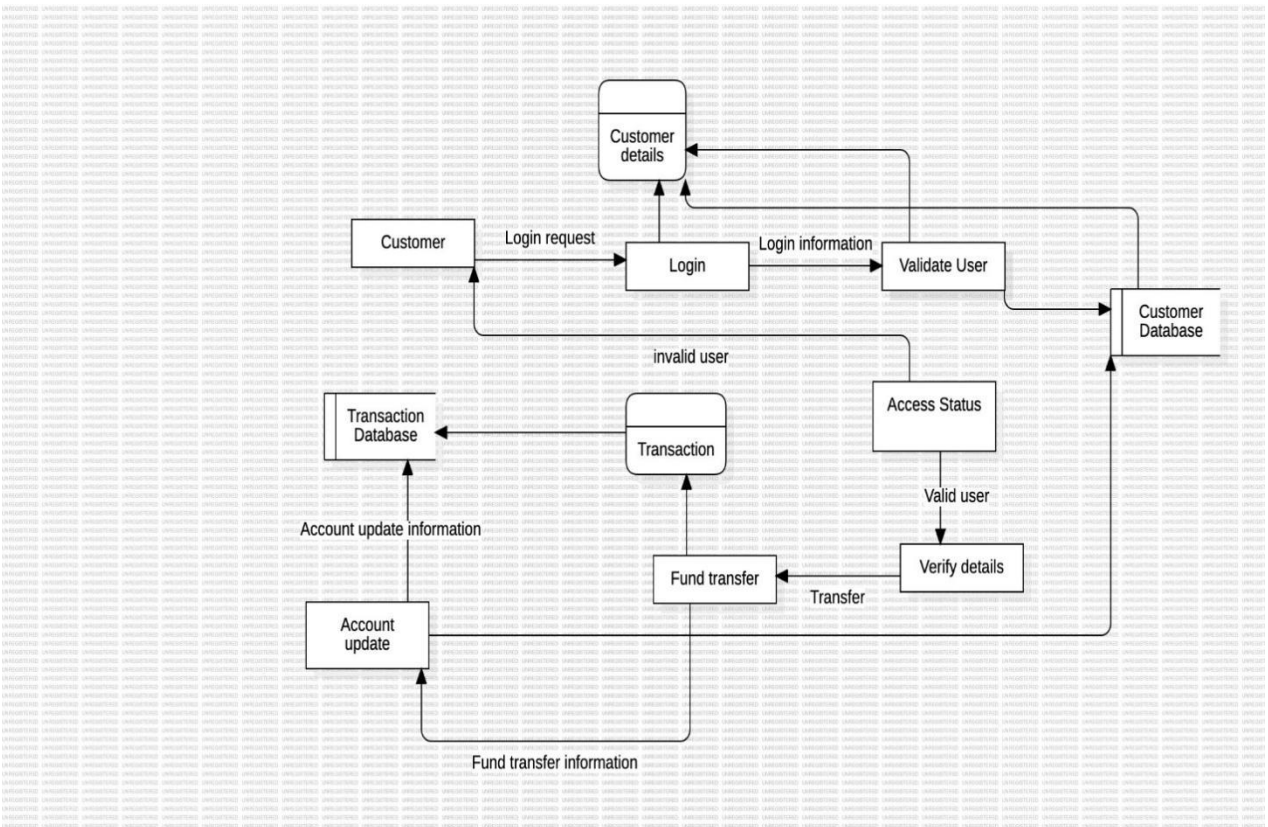
CREDIT CARD FRAUD DETECTION

DATA FLOW DIAGRAM (LEVEL 0, LEVEL 1, LEVEL 2)

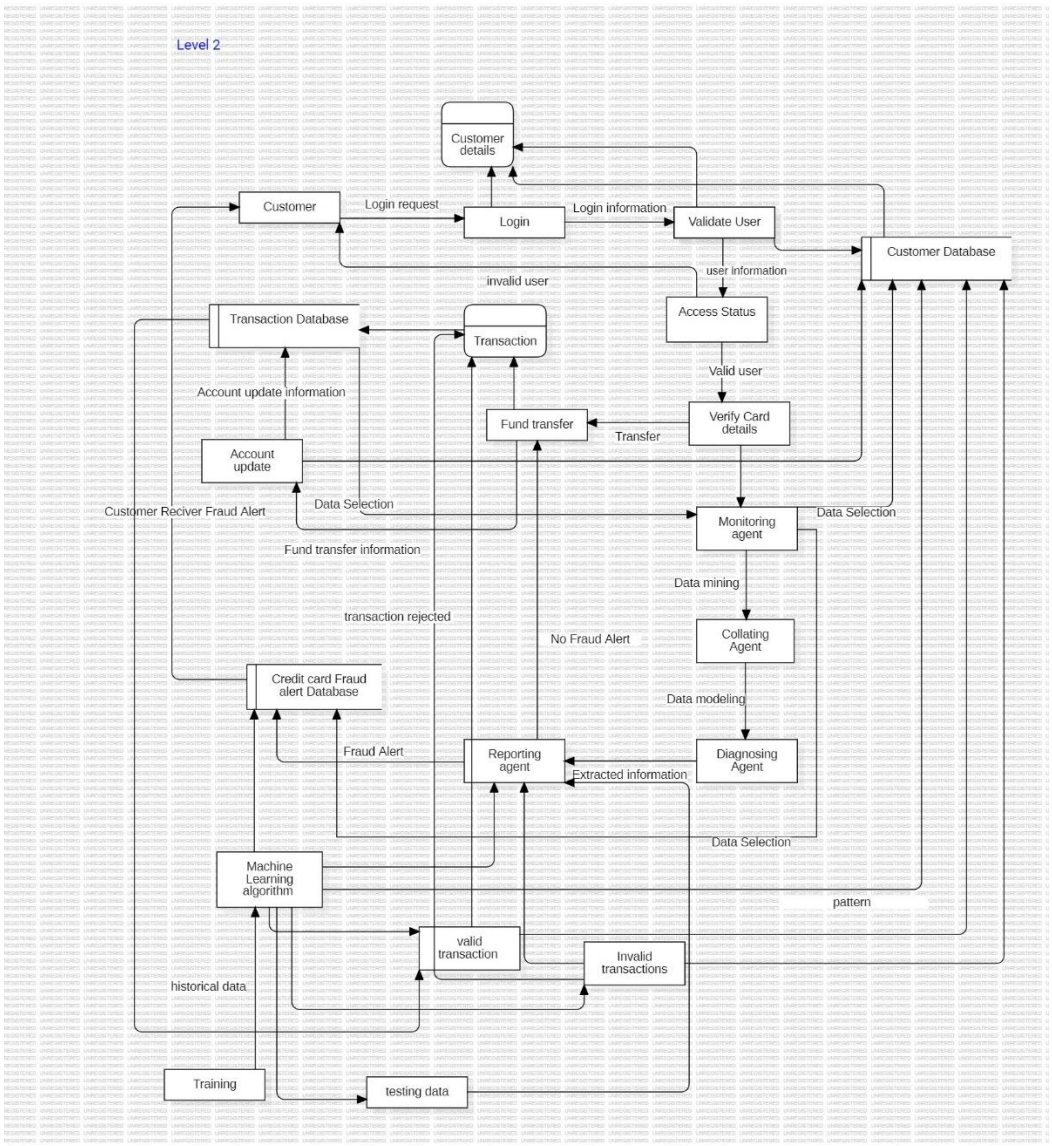
LEVEL 0



LEVEL 1



Level 2


Level 2
Customer details
Customer
Login request
Login
Login information
Validate User
Customer Database
invalid user
user information
Access Status
Transaction Database
Transaction
Valid user
Account update information
Verify Card details
Fund transfer
Transfer
Account update
Customer Reciver Fraud Alert
Data Selection
Monitoring agent
Data Selection
Fund transfer information
Data mining
transaction rejected
No Fraud Alert
Collating Agent
Credit card Fraud alert Database
Data modeling
Fraud Alert
Reporting agent
Diagnosing Agent
Extracted information
Data Selection
Machine Learning algorithm
pattern
valid transaction
Invalid transactions
historical data
Training
testing data