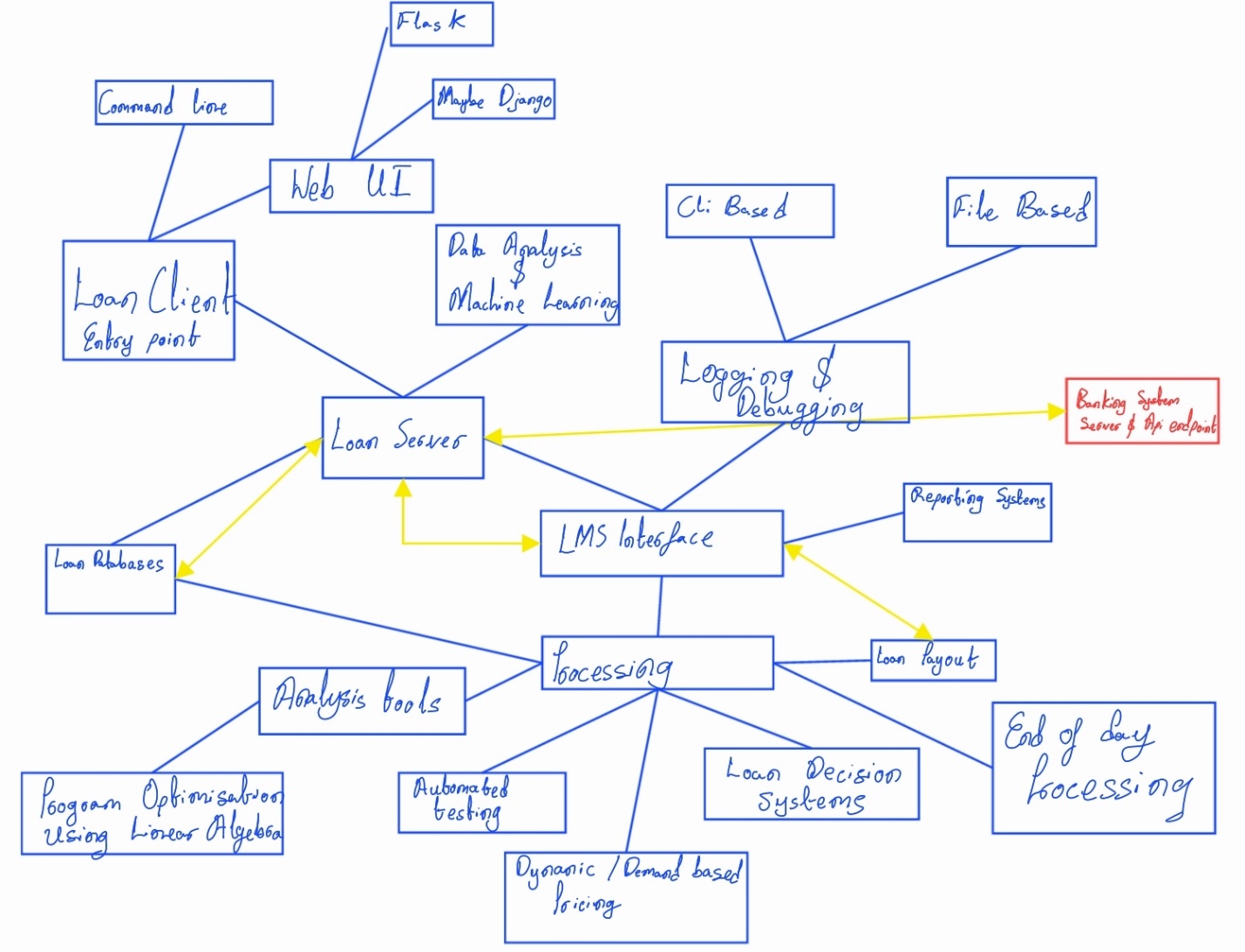
Loan Management System Design Documentation

Project Description:

Th project is a Loan Management System using a client – server model, that could get user data (human or generated) and processes it for credit scoring. It factors in the current economic conditions like yield spread, federal reserve rate, loan demand from previous day, e­tc.

Core Objectives and features:­

1. Generate Data.
2. Client Server Functionality over a local Network.
3. A login in system for user to view their loan profiles.
4. A command line client for users and developers.
5. A web client for users and possibly for developers
6. A proper tracking system to track applied, current, and completed loans.
7. A Builtin Database Management System
8. A Basic Loan Reporting System to report statistics like number of loan applicants, average loan amount requested, average credit score of the applicants for the day, month, and year.
9. An api to send jsonified loan reports



Loan Server Design and Functionalities:

1. Receive and return Jsonified customer data.
2. Receive and return options for developer (DEV) menu.
3. Direction ability to directly search loan database for entries.
4. Generate artificial user input when requested.
5. Handle processing of JSON requests from Clients prior to actual loan processing.
6. Handle compilation of back-end when necessary.
7. Handle API calls for necessary economic info.

Loan Management System (LMS) Interface

1. API for Reporting loan Statistics.
2. Methods of client verifying access to the server.
3. Methods of sending and receiving API calls to Bank Management System.
4. Methods of accepting and processing generated data
5. Methods of accepting and processing standalone applications.

Processing Functionalities and Features:

1. Compute loan application dependent Metrics.
2. Compute interest rate for each loan application.
3. Calculate final Adjusted Loan Viability Score.
4. Store processed Values in applicable Databases.

