Project Idea

Website

A simple static site with rich user interface to take in a file containing all transaction data. The data flows only in one direction, from user to Raw Data Collect code written in HTML.

Raw Data Collect

A HTML file forming the basis of the website. Its main objective is to take an input and store the file in the same folder as other components for easier retrieval. This file will be mined in the

Data Mining

This Python code is heart of the idea. Its main goal is to analyse the transactions from the user input file and form association rules and store these in Result DB. Various algorithms are used like A-priori, FP Growth etc.

Master Control

A Python code which controls all other components by directing data into each one of them. Running this code will directly activate other components in planned sequences.

Result DB

A simple file containing the result from the Data Mining component. It has all the association rules mined from the user input file. This data is retrieved by Response Analysis component to respond to user requests.

Flow Understanding

Telegram

A simple interactive bot created on the telegram social app using a bot API. In order to access the bot, search for @justdoitOBNRbot. The name of the bot is OBNR or Old Bottle New Rum.

Message Exchange

This Python code forms the basis of the bot. It checks for messages from the user every 0.1 second and sends back the message it received from the Response Analysis component.

Response Analysis

This Python code is like a search engine which retrieves only the data related to the search term in the Result DB and sends it back to the user through Message Exchange.