

SE Experiment-5

(Batch-A/A1)

-Team Details-

Utsav Avaiya – UID (2021300005)

Ayush Bodade – UID (2021300015)

T.E. Computer Engineering – A

Aim:

To draw data flow diagrams and structure chart for our concerned AGM file management system.

Q. What is a data flow diagram?

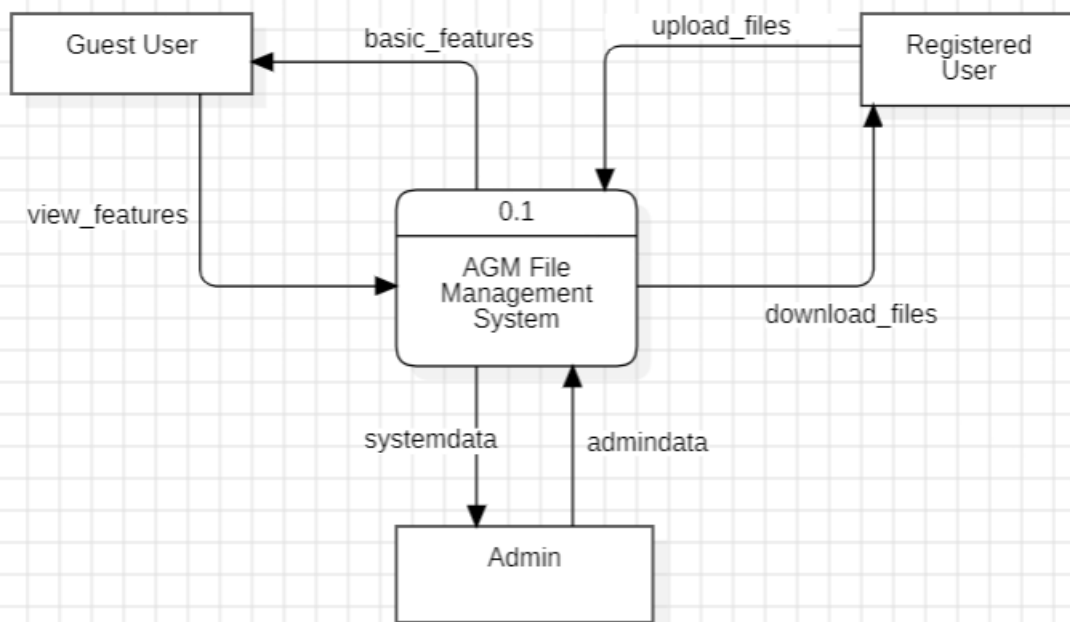
Data flow diagrams (DFDs) are graphical representations of the flow of data through a system. They are used to model and analyze systems of all types, from simple business processes to complex software applications.

DFDs use a standard set of symbols to represent the different parts of a system, including processes, data stores, and external entities. Processes are the activities that transform data from one form to another. Data stores are the repositories where data is stored. External entities are the sources and destinations of data that flows into and out of the system.

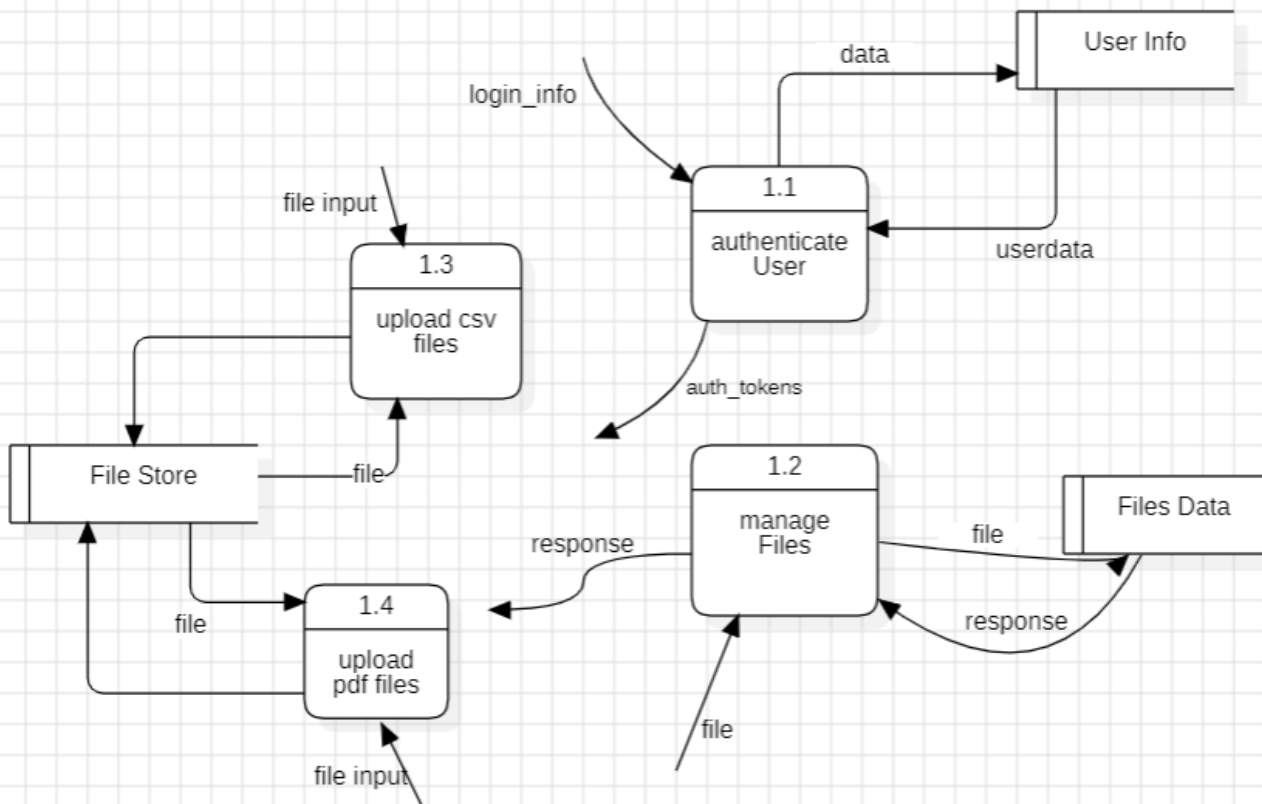
DFDs are created at different levels of detail. A level 0 DFD, also known as a context diagram, provides a high-level overview of the system. It shows the system as a single process with its external entities. Level 1 DFDs show the major processes in the system and the data flows between them. Level 2 DFDs show the sub-processes within each major process and the data flows between them.

Implementation:

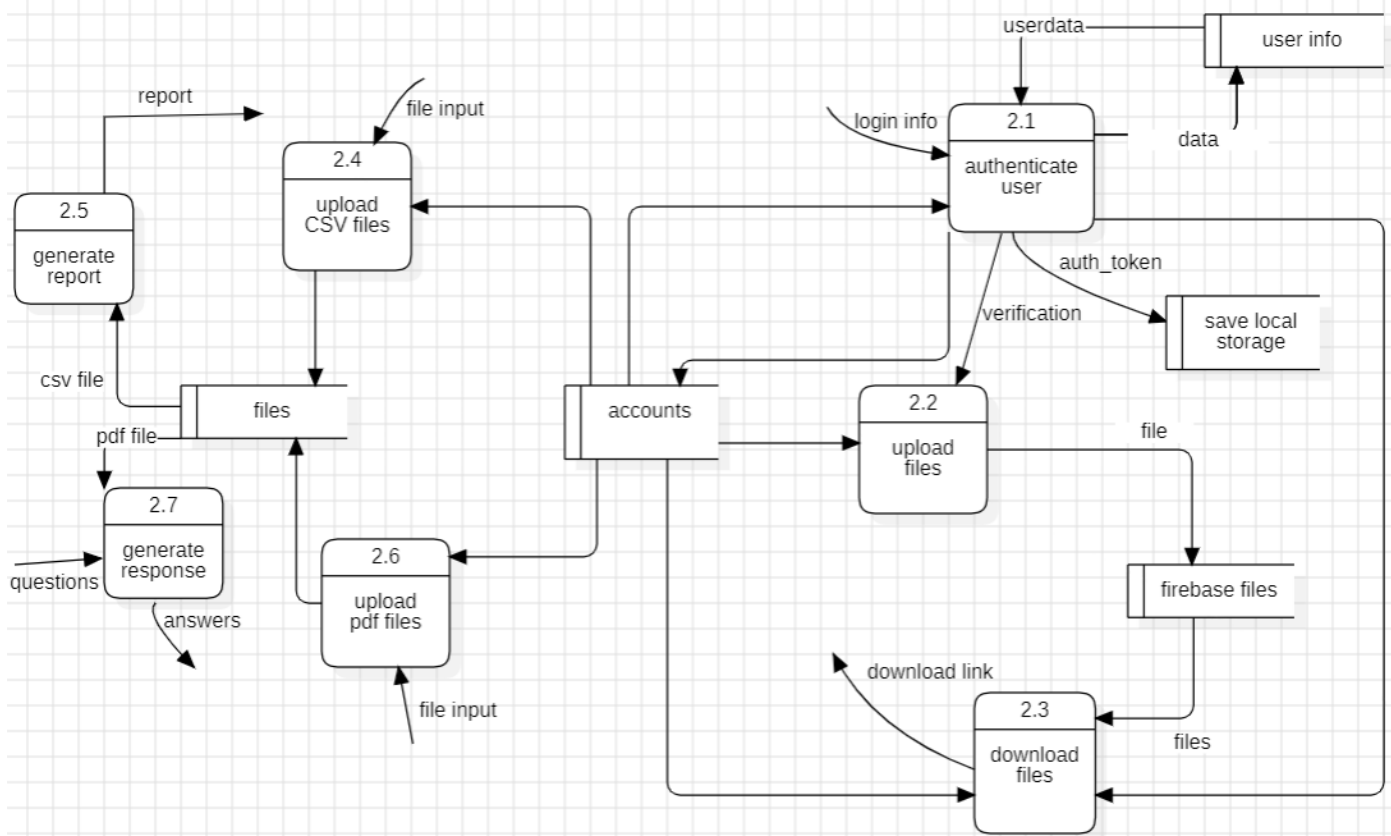
Given below are the Data Flow Diagrams (DFDs) constructed with a thorough review of the SRS document as presented earlier. 3 levels – 0, 1 and 2 were considered to depict the data flow structure of the software.



Level-0 Data Flow Diagram (Context Diagram)



Level-1 Data Flow Diagram



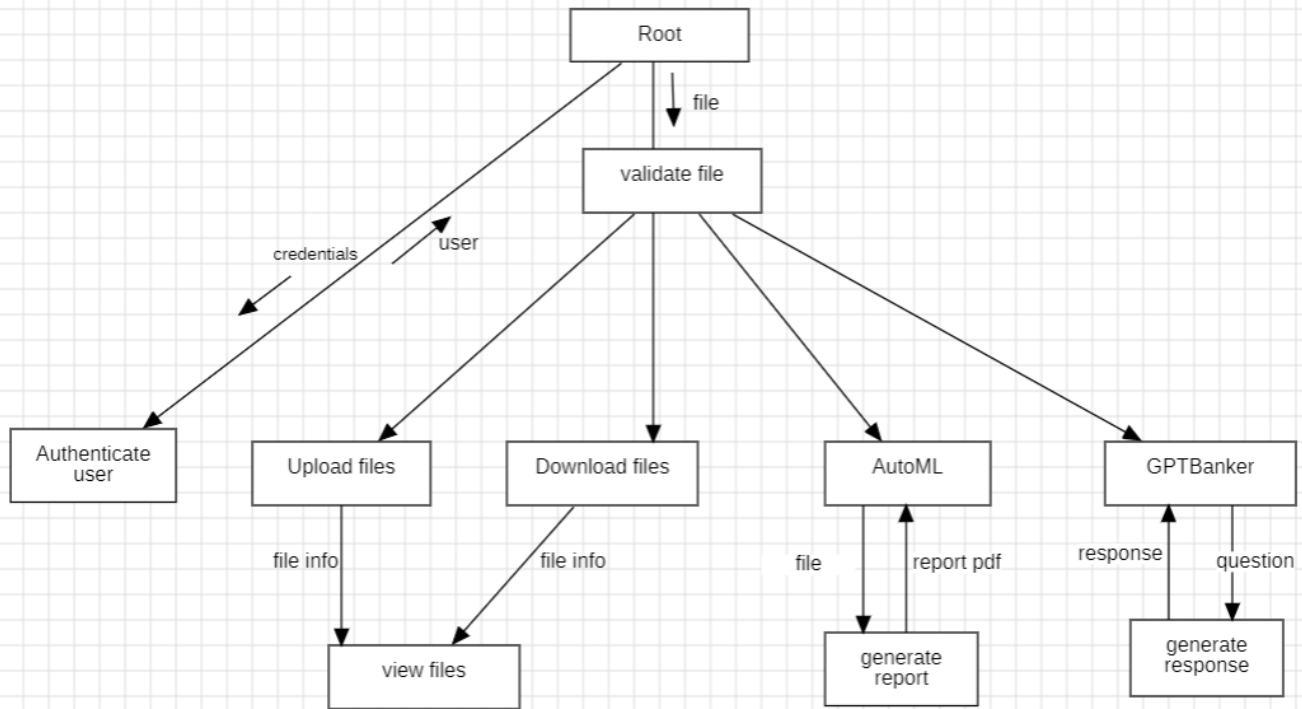
Level-2 Data Flow Diagram

Following is the data dictionary for the above-mentioned data flow diagrams-

- 1) username :- string
- 2) password :- string
- 3) answers : string
- 4) auth_token : string
- 5) download_link : string
- 6) report : pdf
- 7) csv file : comma separated values

Apart from the above constructed data flow diagrams, a structure chart was devised to understand the modular nature of the software.

Following is the structure chart that was drawn for the concerned banking software-



Conclusion:

Through this experiment, we gained hands-on experience with Data Flow diagrams and structure charts. This practical exercise helped us appreciate the significance of these visual tools in effectively illustrating how data flows within a system.