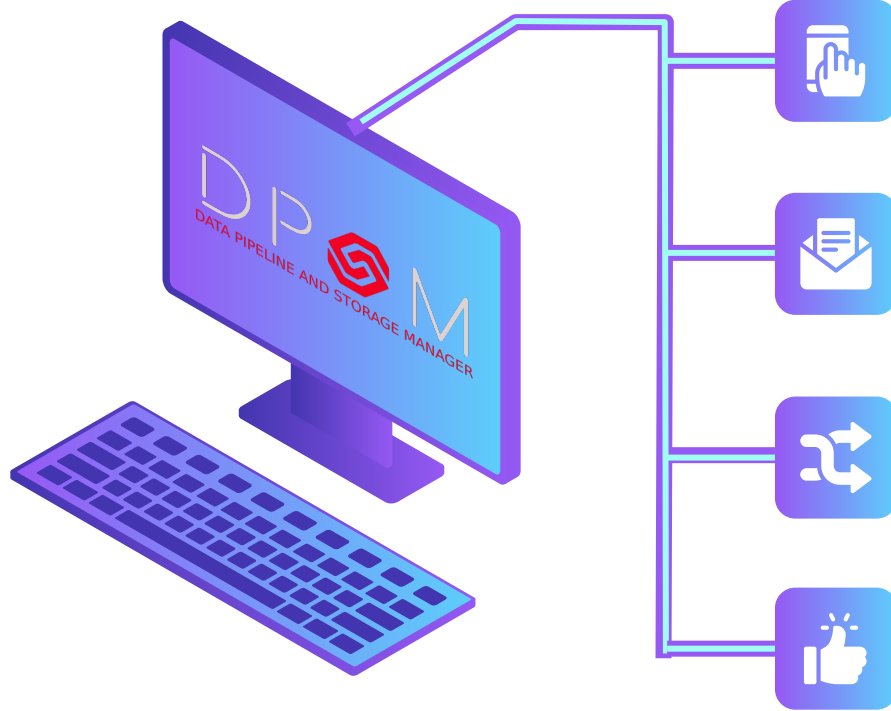


Data Pipeline and Storage Manager



Project Description



Goal

Develop a cloud-native pipelining (CNP) service that facilitates the analysis and management of project data.

Storage

The loaded raw data is stored in a storage bucket, the insights gained from the raw data are stored in a database.

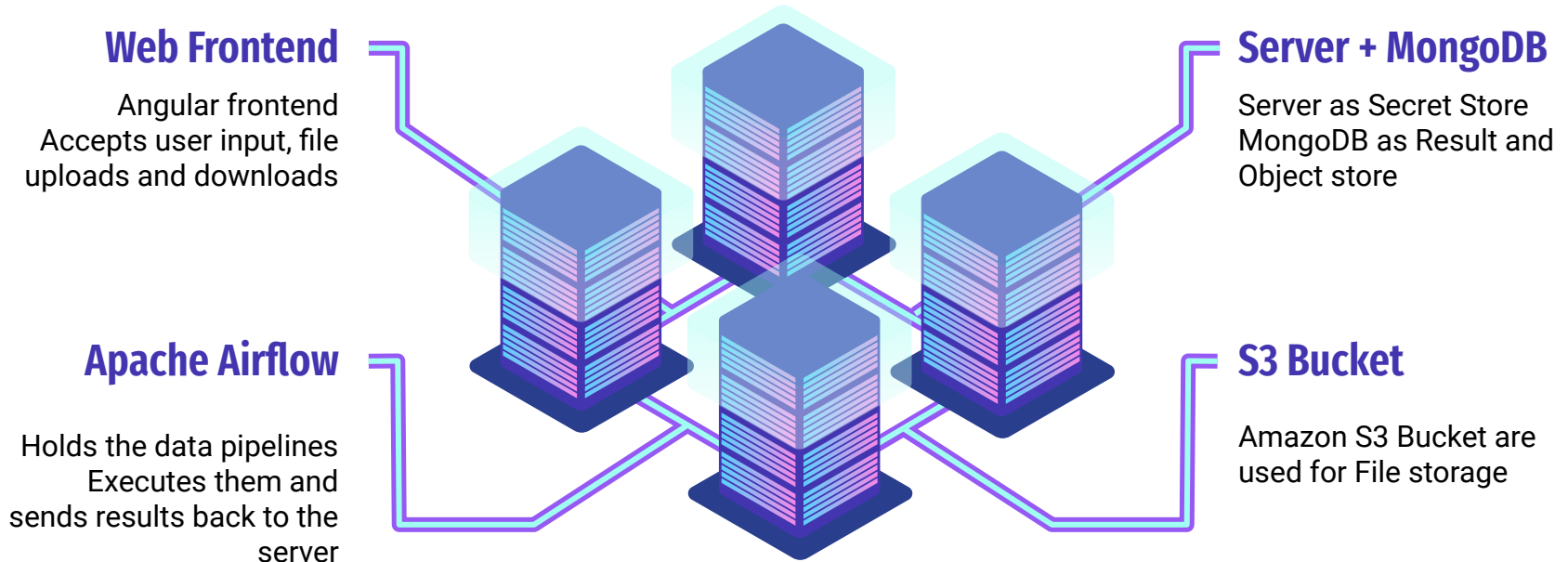
Manage

Request a data pipeline and raw data, and then load the data into the pipeline.

Show

The end user is provided with a frontend to upload the data, and to access and analyse the stored data.

Project Architecture



Project Requirement

Frontend

- Allows data upload and pipeline selection
- Users can upload data, search, control pipeline status

Backend

- Orchestrates software components
- Handles data flow
- Access control storage/handling

Data Pipeline

- Supports various data types, prioritizing CSV and compound files
- Different ETL solutions for different data types

DPSM

```
graph TD; Frontend[Frontend] --- DPSM[DPSM]; Backend[Backend] --- DPSM; DPipeline[Data Pipeline] --- DPSM;
```



Live Demo



Thank you!