Low Level Design (LLD)

Investment Analytics

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Document Control

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20th May 2023	0.1	Introduction and architecture defined	Sarthak Tyagi

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1 Introduction

This document describes the technical details of the Investment Analytics project focused on analyzing FDI in India from 2000-2001 to 2016-17 using Power BI.

2 Data Sources

The FDI_in_India.csv dataset available on Kaggle will be used as the data source for the project. The dataset contains information on FDI inflow, and sector-wise distribution.

3 Data Modelling

The data model will be created using Power Query and Power Pivot. The model will include the following data:
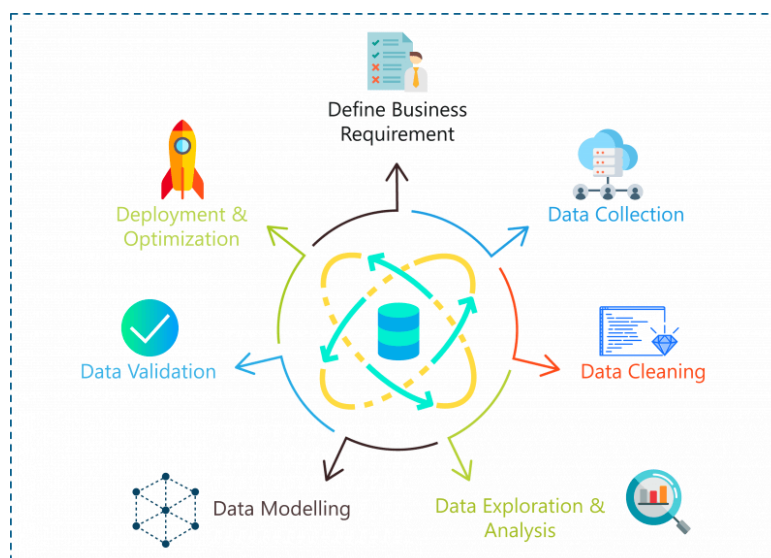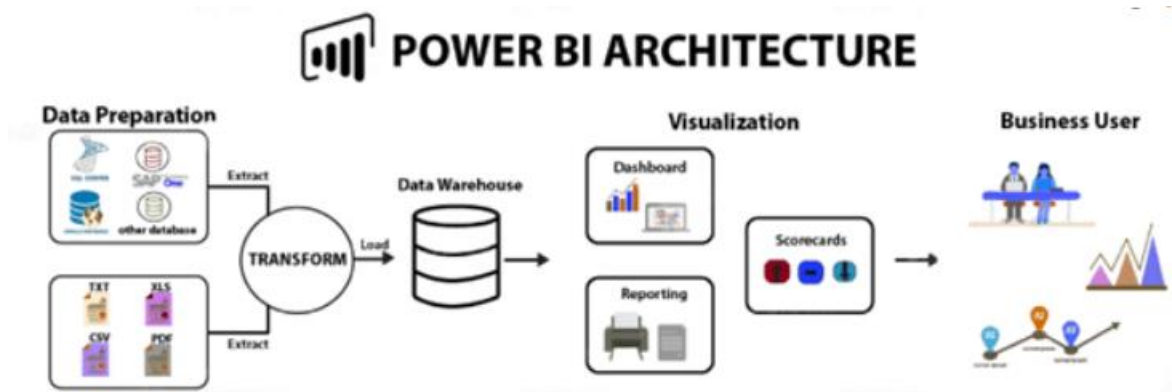- FDI Inflow
- Sector-wise FDI

4 Data Transformation

The following data transformation techniques will be used:

- Filtering
- Grouping
- Aggregating
- Merging
- Calculated columns and measures

5 Architecture

5.1 Power BI architecture

6 Development Process

6.1 Data Preparation
It acts as an entry gate to power bi. In this step, connections are made to the data source and data is loaded to transform into appropriate form.

6.2 Data warehouse
Transformed data is then sent to the warehouse but in our project, we will load data to power bi itself in order to develop dashboards Immediately.

6.3 Visualization
In this step, various KPIs and charts are being made to analyze data, and some insights were generated.

6.4 Delivery
In this step, the report is shared on the power bi service and user/business can generate more insights from it.

7 Unit Test Cases

Test Case Description	Expected result