Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	31 January 2025
Team ID	LTVIP2025TMID57325
Project Name	ToyCraft Tales: Tableau's Vision into Toy Manufacturer Data
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Example: Order processing during pandemics for offline mode

Here's your custom **Technology Stack** for the *College Food Choices* project, presented in a clear and structured table format:

Project Architecture Table — *ToyCraft Tales*

Component	Tool / Technology	Purpose
Data Source Layer	Week 39 - US Toy Manufacturers.csv	Source of historical data on toy manufacturers across U.S. states from 2005 to 2016
Data Storage	CSV (local) / Tableau Data Extract	Stores cleaned and prepped data for fast visualization and querying
Data Processing & Preparation	Tableau Prep / Excel / Python (optional)	Cleaning nulls, aggregating manufacturer totals, generating index bins or category tags
Index Binning & State Metrics	Tableau Calculated Fields	Used for histogram and pie chart grouping of manufacturers by index value
Interactive Filtering & Controls	Tableau Parameters and Filters	Enables filtering by Year, State, Index, or Manufacturer totals for dynamic exploration
Visualization Engine	Tableau Desktop / Tableau Public	Builds interactive dashboards to visualize trends, regional comparisons, and summaries
Insight Simulation	Scenario Overlays (Manual + Calculated Fields)	Mimics demographic and seasonal trends despite limited raw data
Dashboard Design Components	Sheets, Containers, Legends in Tableau	Organize visuals like Line Charts, Bar Charts, Pie Charts, and Summary Panels
Presentation Layer	Tableau Story / PowerPoint (optional)	Delivers a narrative sequence to stakeholders with step-by-step exploration
Documentation & Notes	Markdown, Word, or PDF Reports	Captures project scope, rationale, and insight breakdowns for academic or professional sharing