

For the Automobile Assistant (Autocare Assistant), I have chosen the Data-Flow Architecture for the following reasons. Real-time data processing, the application continuously processes vehicle diagnostics data from an OBD-II device, making data flow a key concern. Well-suited for IoT applications, since the app receives, processes, and outputs vehicle data, a data-centric pipeline is the best fit. Clear Representation of System Components, dataflow illustrates how information moves between different system processes and how data is stored and retrieved.

