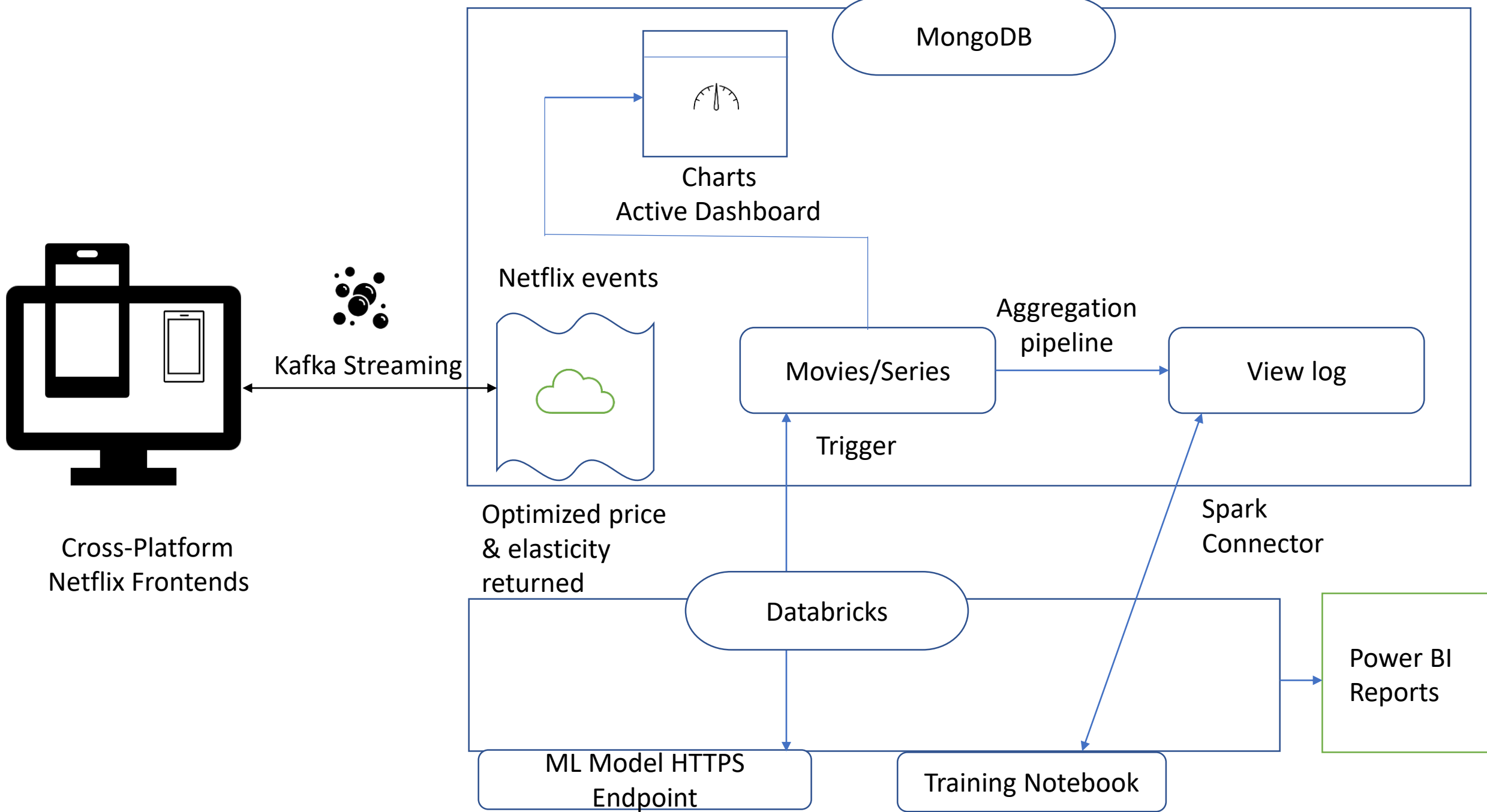


BDS Assignment on Netflix Question

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Architecture description :

- ❖ We are using MongoDB in which we ingest the Netflix events. MongoDB provides a high level of availability and partition tolerance while offering tunable consistency for both read and write operations. Users can configure MongoDB deployments based on their specific use cases, balancing the trade-offs between consistency and availability according to application requirements.
- ❖ **REST API:** Design a REST API to allow the Netflix Ads platform to retrieve information about TV shows and movies. The API should support queries based on IMDb scores, genres, release dates, etc.
- ❖ We use MongoDB App services which instruments a set of triggers and several list functions based on migration pipelines first to automate data transformation from raw events to an aggregation pipeline view log and secondly, app service to serve the transform of data from an HTTP code into notebook and clusters over data bricks.
- ❖ Real-time Stream Processing: a) Stream Processing Framework: Apache Flink or Apache Kafka Streams could be used for real-time processing of user activities. b) Processing Logic: Process the incoming events, update user profiles, and trigger events for real-time ad recommendations.
- ❖ It will be able to run ML that scales in real time effectively with the intelligence layer.
- ❖ The data we got using data bricks can help us in creating reports/Graphs for analyzing the data in better and easy way.