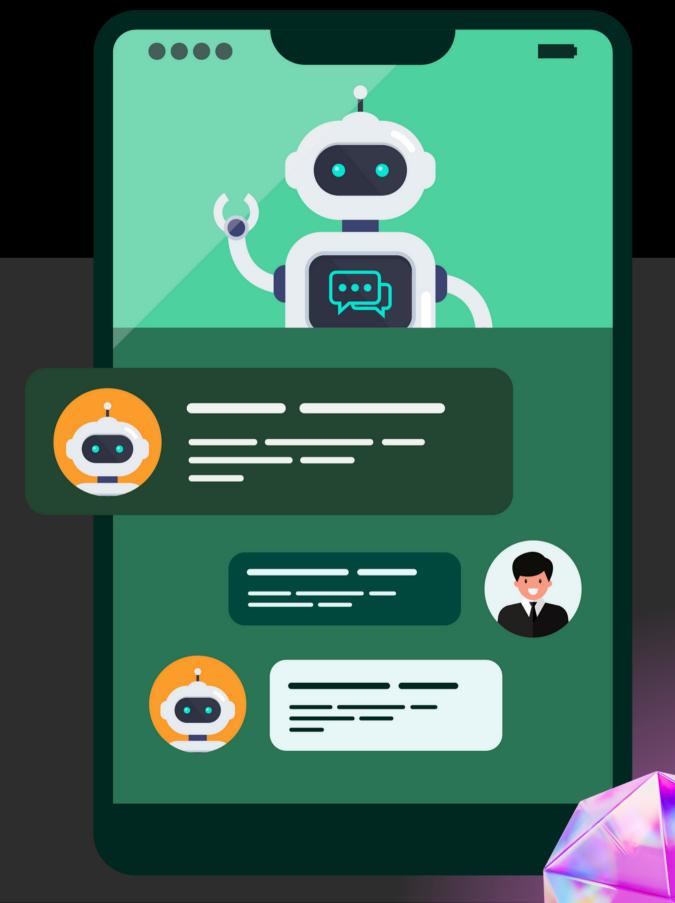


Agenda



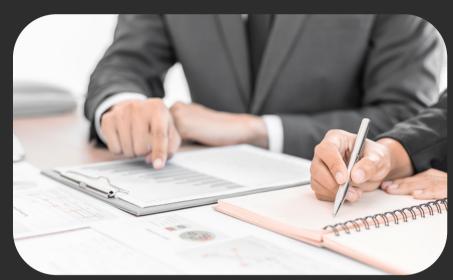
- Use Case Description
- Where we are now
- Architecture
- Demo
- Future Scope
- Get in Touch



Problem

- Top executives and leaders have to depend on some analyst to get data or reports for them
- Little or no coding experience

Use Case



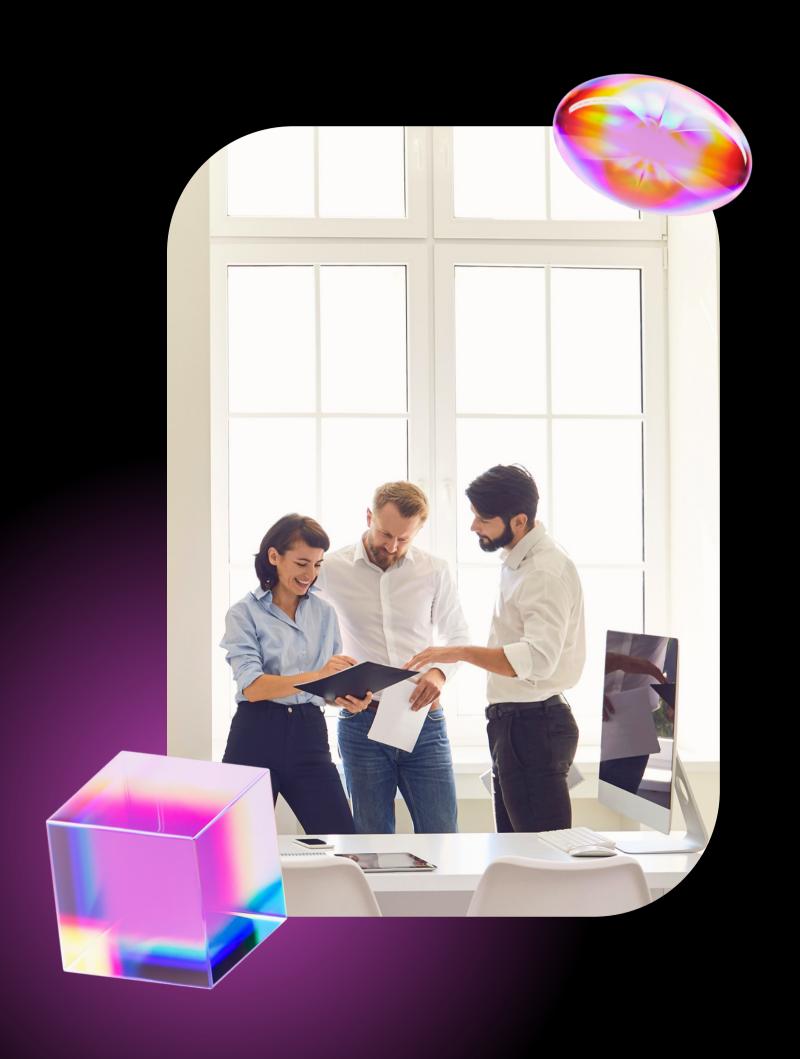
Solution

- Smart virtual assistant which can provide them with reports and required data immediately
- Data can be downloaded and plots generated can be saved
- Voice Based Assistant
- Email Chat History or Data or Reports



Tech Stack

- Al21 Large Language Models & LangChain
- Any cloud server to host application
- Database Credentials can be provided at run time
- Web App

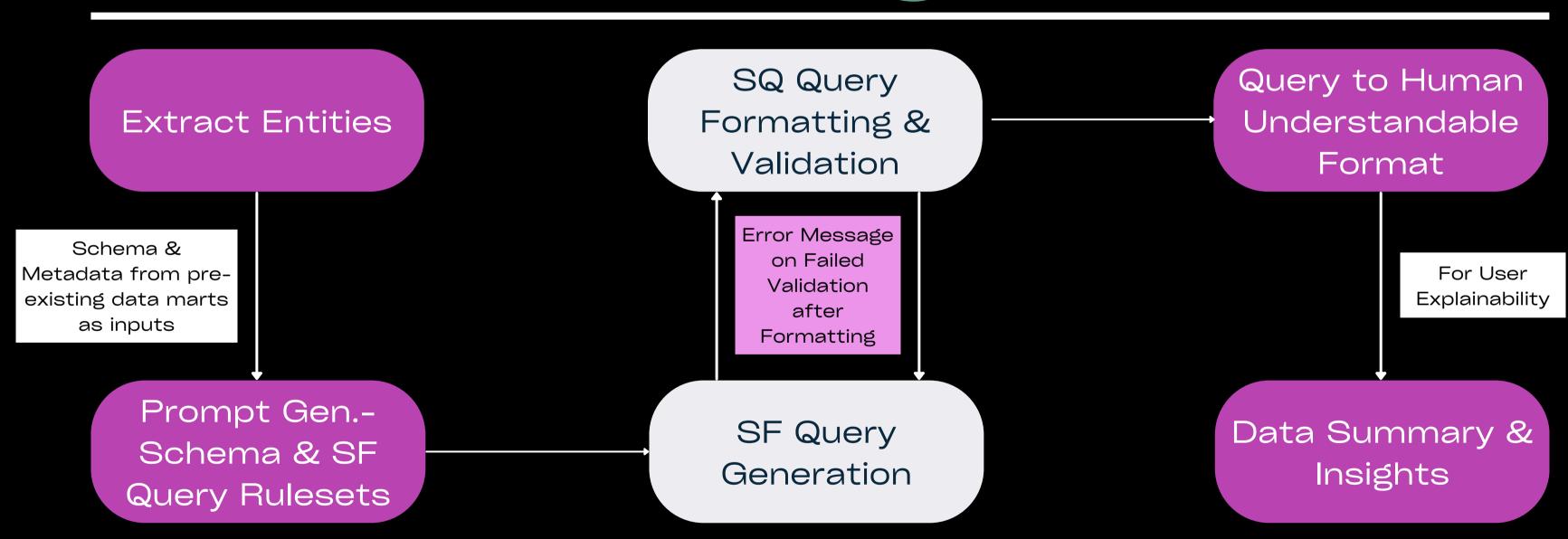


Where We Are Now

Any Single Table Query Support at a time with an option to download the data

LangChain Tools can be leveraged to Build Custom SQL AGENTS

User Query in Natural Language



Query Output
with Visualization
& Data Summary

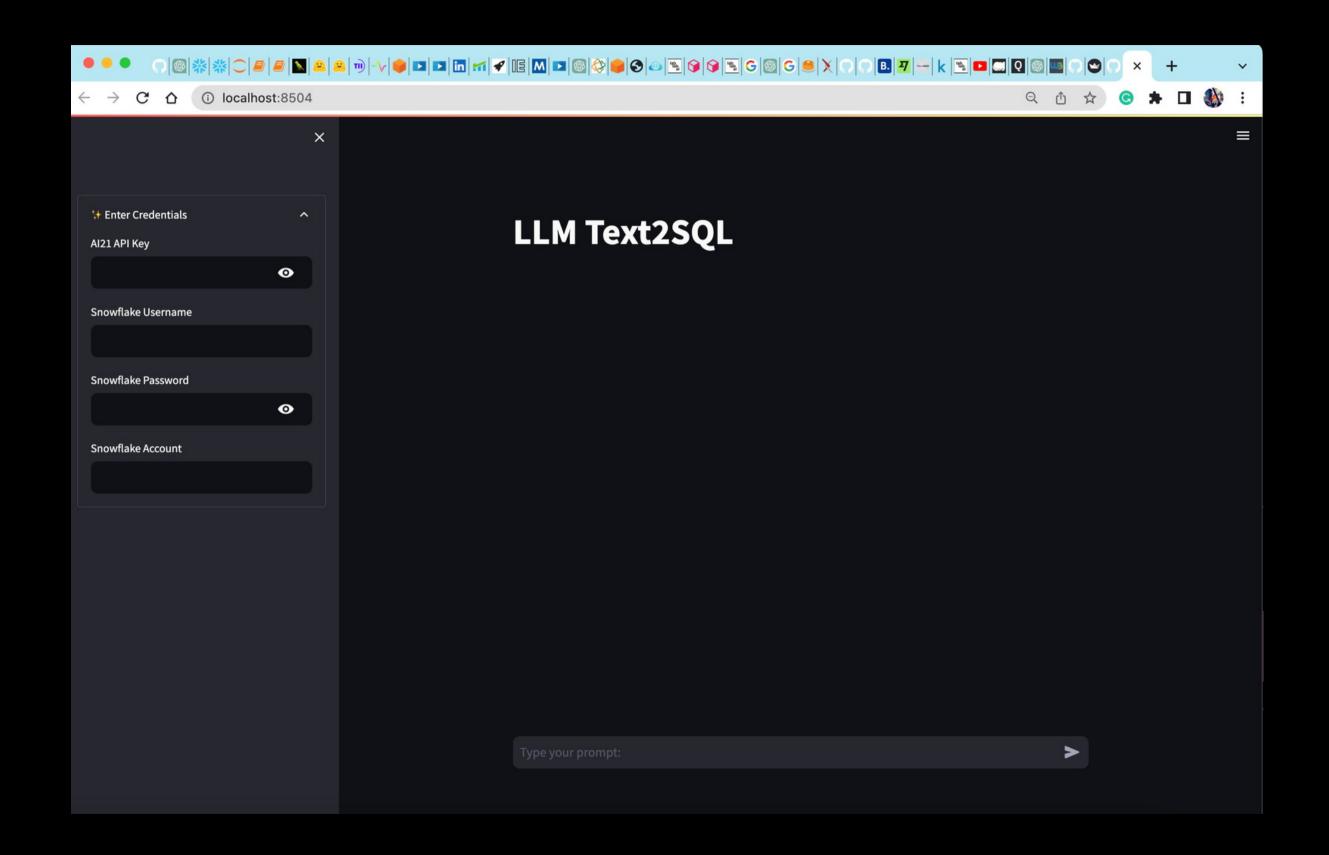


Demo



Landing Page

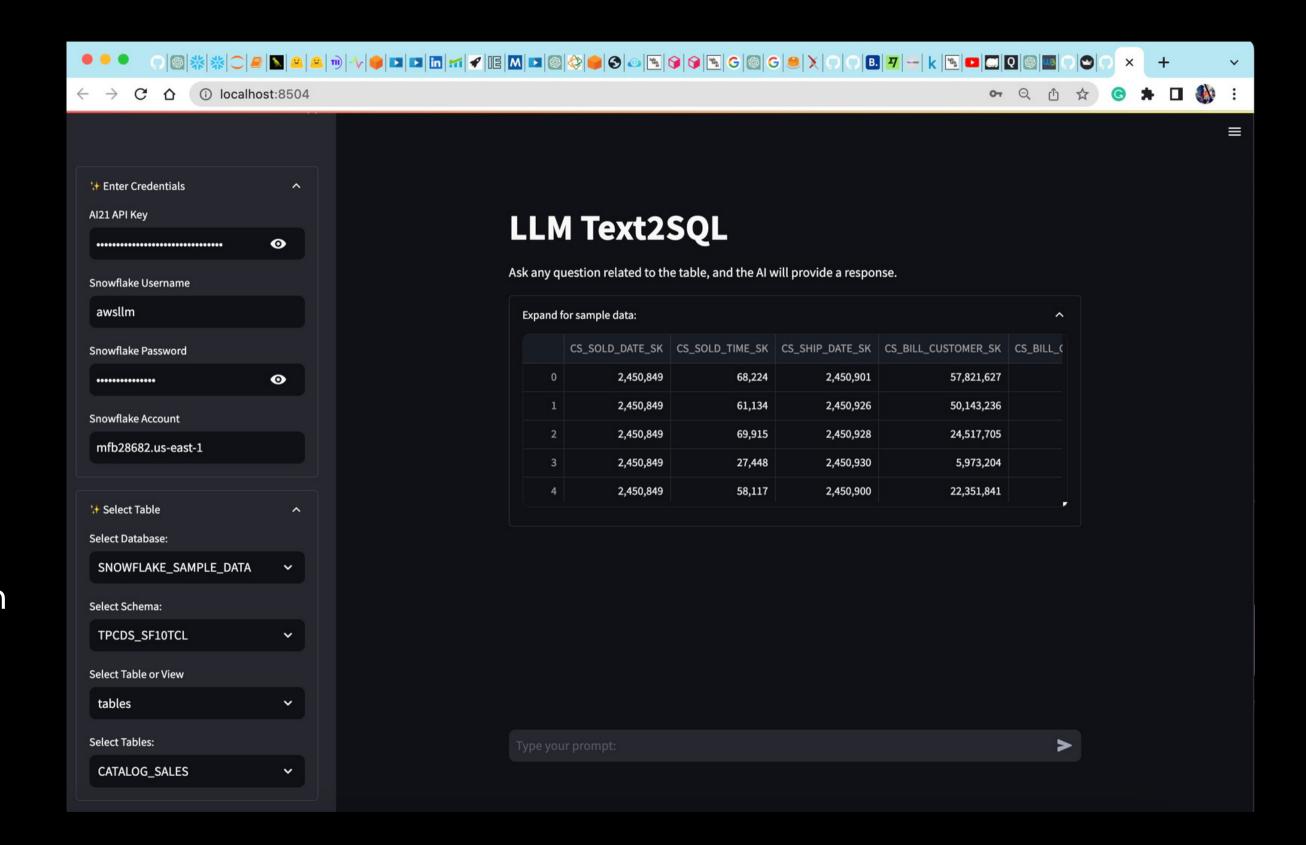
- Provide Al21 API key
- Provide Snowflake Credentials
 - Username
 - Password
 - Account URI without `snowflake.com`



After Creds Verification

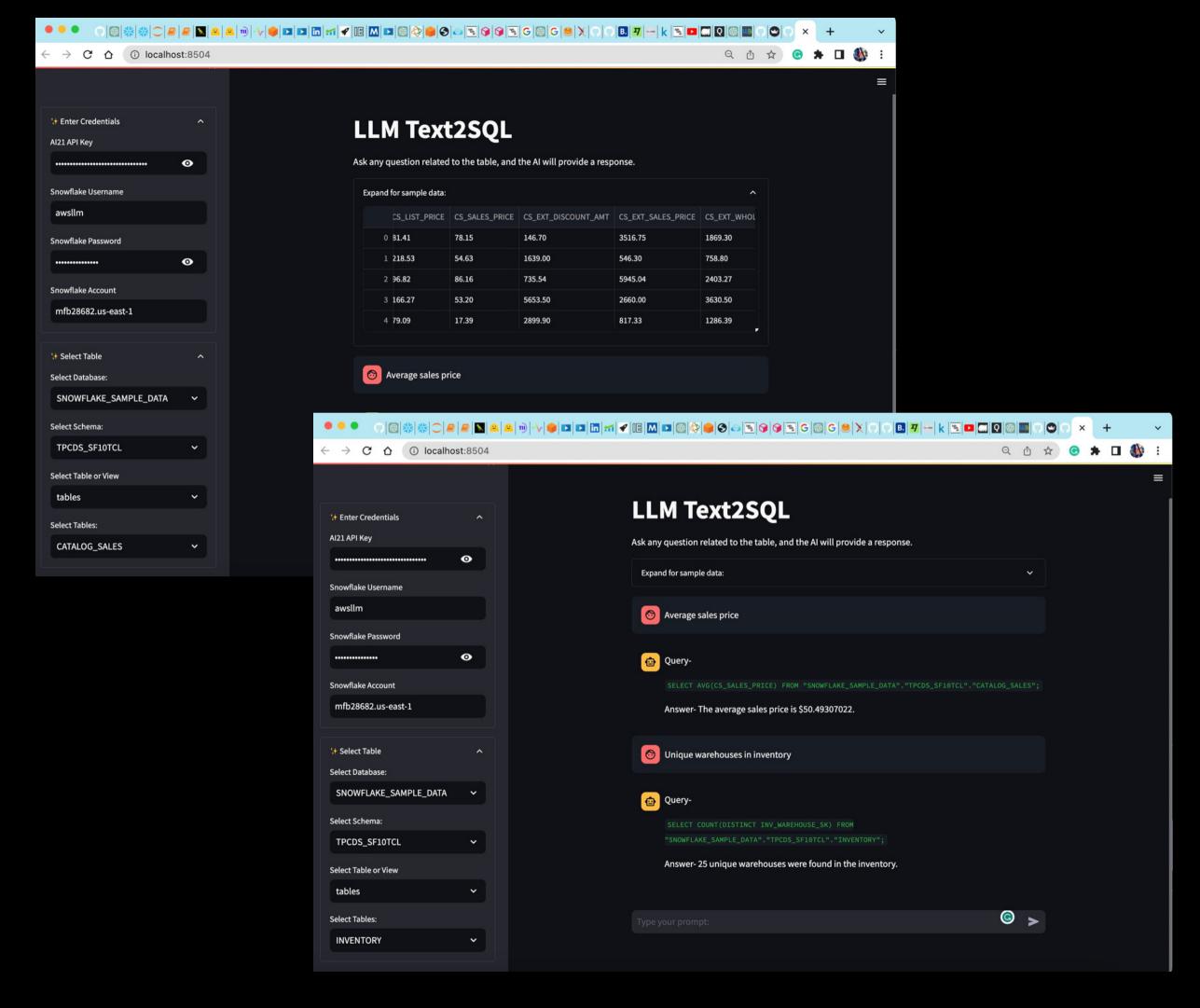
- Select Database
- Select Schema
- Select Tables/Views
- Select Table

A sample data will be shown on the main page based on which we can query in the chat placeholder.



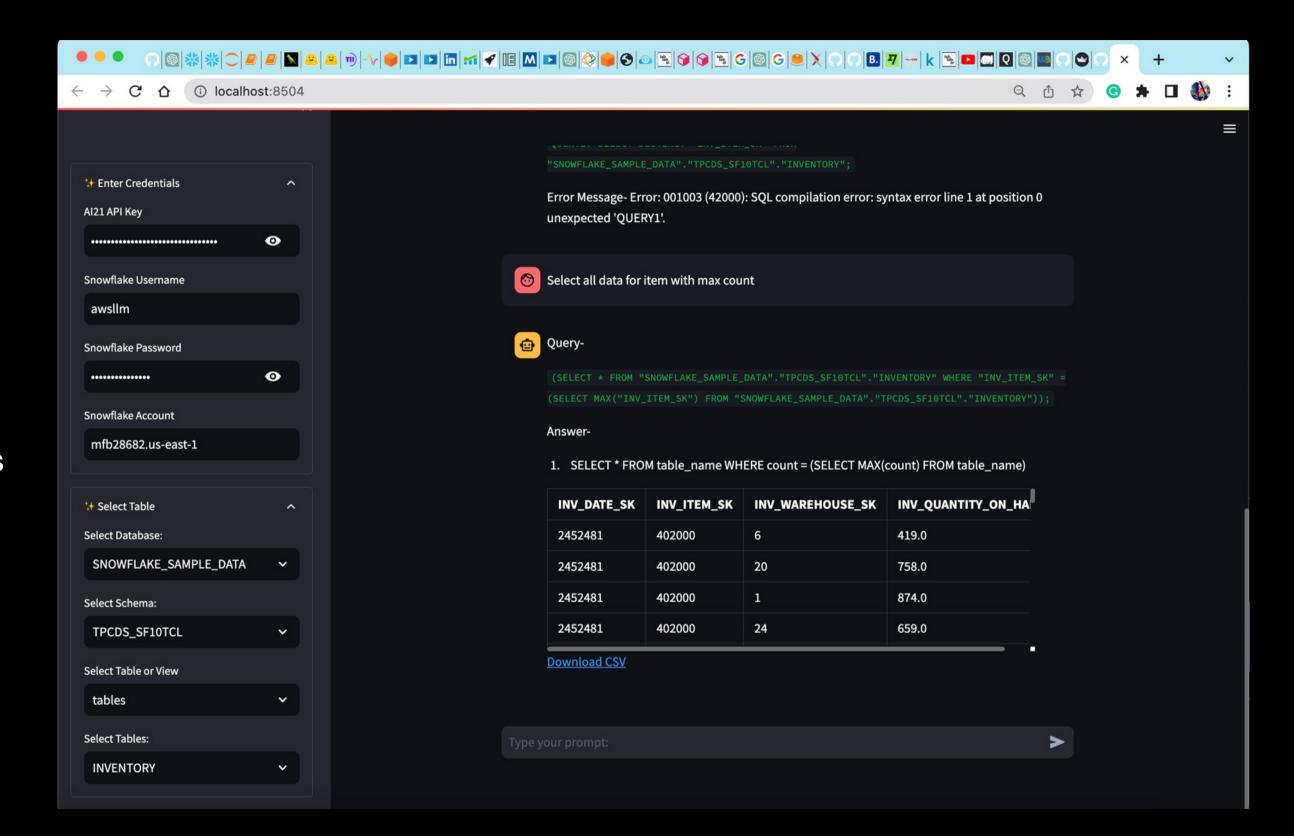
Conversation Flow

- Users can ask questions, and results will be given along with the query executed
- If case of any error in the query, in that case in place of result, the error message will be displayed



Download Data

 When the result returned is a data frame, the result can be downloaded as a CSV file too if needed for future reference or sharing



Future Scope



- Add voice assistant
- Reduce response time
- Add multi-table support for each user query
- Insights & Explainability



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