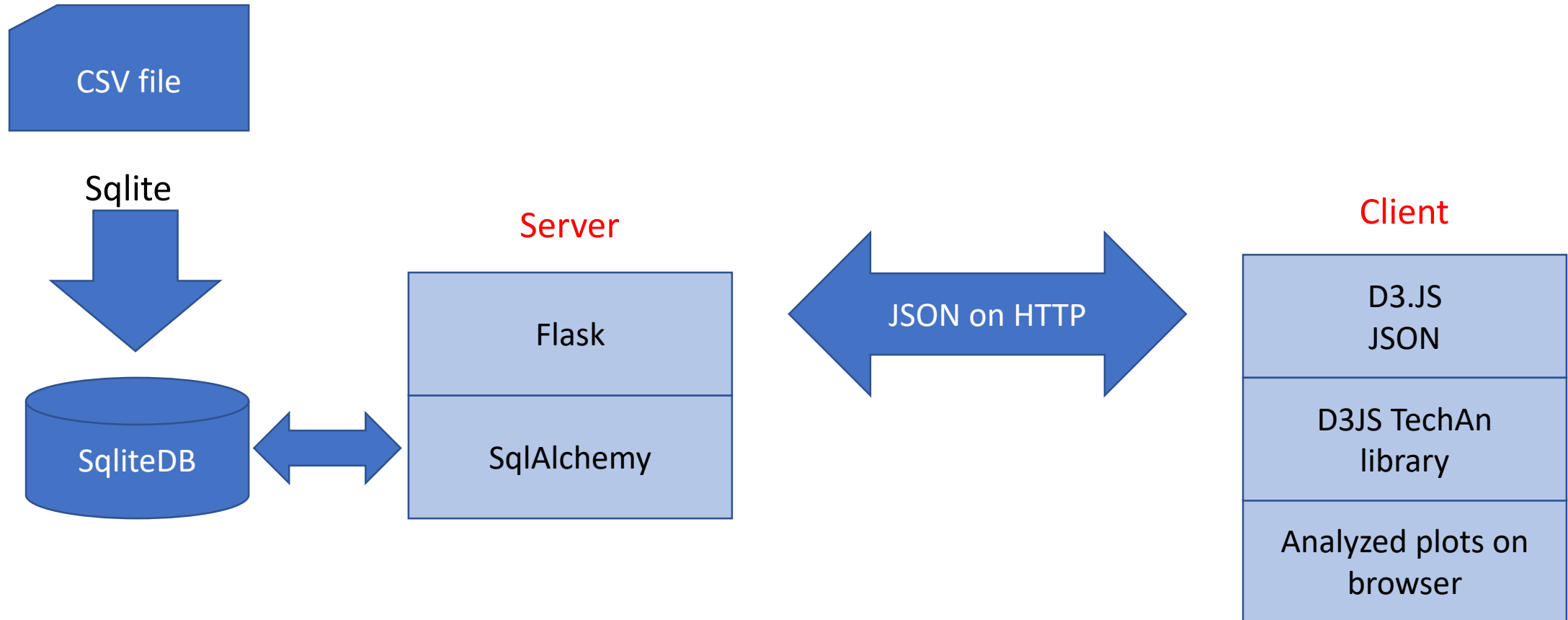


DS & Visualization

Project – 2

Madhukara

Architecture



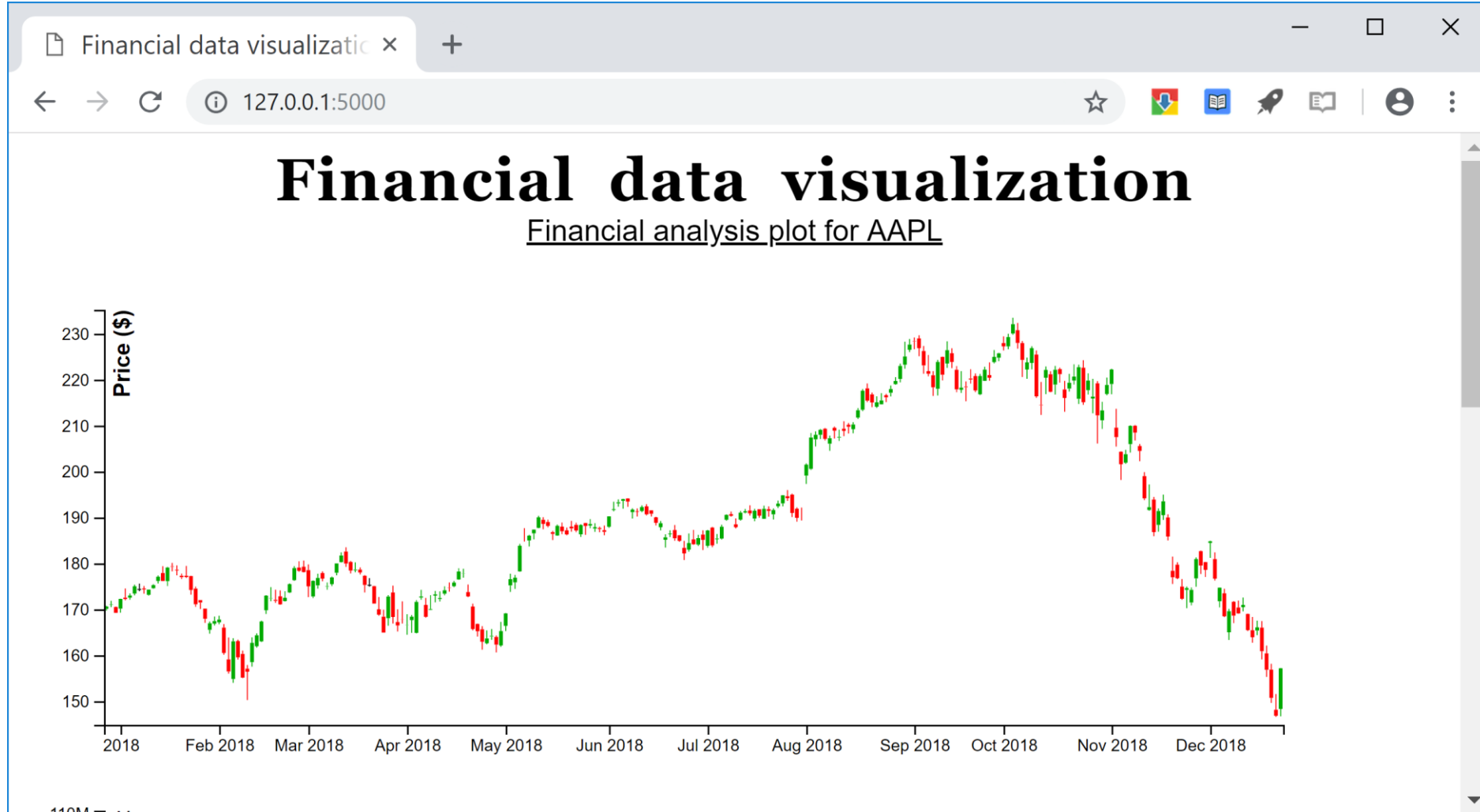
CSV file format

- <id> <Date> <Open><High><Low><Close><Volume>

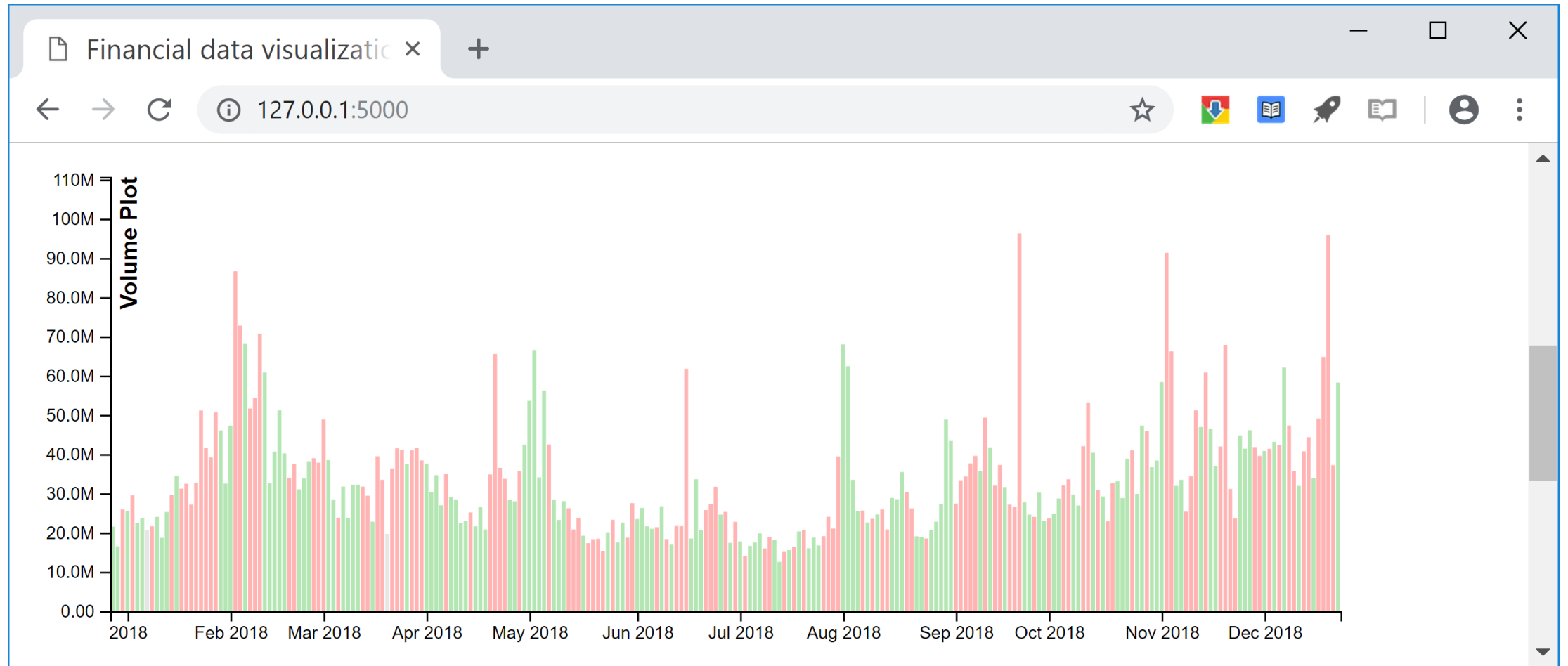
- Sample

• id	Date	Open	High	Low	Close	Volume
• 1	12/27/2017	170.100006	170.779999	169.710007	170.600006	21498200
• 2	12/28/2017	171	171.850006	170.479996	171.080002	16480200
• 3	12/29/2017	170.520004	170.589996	169.220001	169.229996	25884400
• 4	1/2/2018	170.160004	172.300003	169.259995	172.259995	25555900
• 5	1/3/2018	172.529999	174.550003	171.960007	172.229996	29517900
• 6	1/4/2018	172.539993	173.470001	172.080002	173.029999	22434600

Visualization - 1



Visualization - 2



Visualization - 3



Steps to realize the design

- Server

1. Obtain CSV file from Yahoo finance
2. Convert csv file to sqlite database file using sqlite utility
3. Use SQLAlchemy to read the database content
4. Flask + Sqlite + Python to deliver JSON content

- Client

1. D3.js to read the JSON content from server
2. Use bootstrap template to place the responsive plots
3. Use Techan.js library to plot the data
4. As window resizes, re-fetch the data from flask and re-draw