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Summary:

The Front end was built using vanilla JavaScript, HTML and CSS. The backend REST API was built using Spring Boot (Java). The relational database used was MySQL.

The frontend initially holds an empty table. A fetch call is made using Ajax to retrieve all the stock data via the backend from the mySQL. The data is then parsed into JSON and processed to populate rows and cells with stock information, and is initially sorted by price. The columns can be sorted by clicking on the headers, which will then alternate with ascending and descending order. Using a setInterval function, the prices of the stocks are updated every 5 seconds. This is done on the frontend as the data is not live data (The stock data in the database contains only the initial price). The new data is then assorted in the same way as before the update.

The REST api contains all CRUD operations even though all the application does is retrieve data.