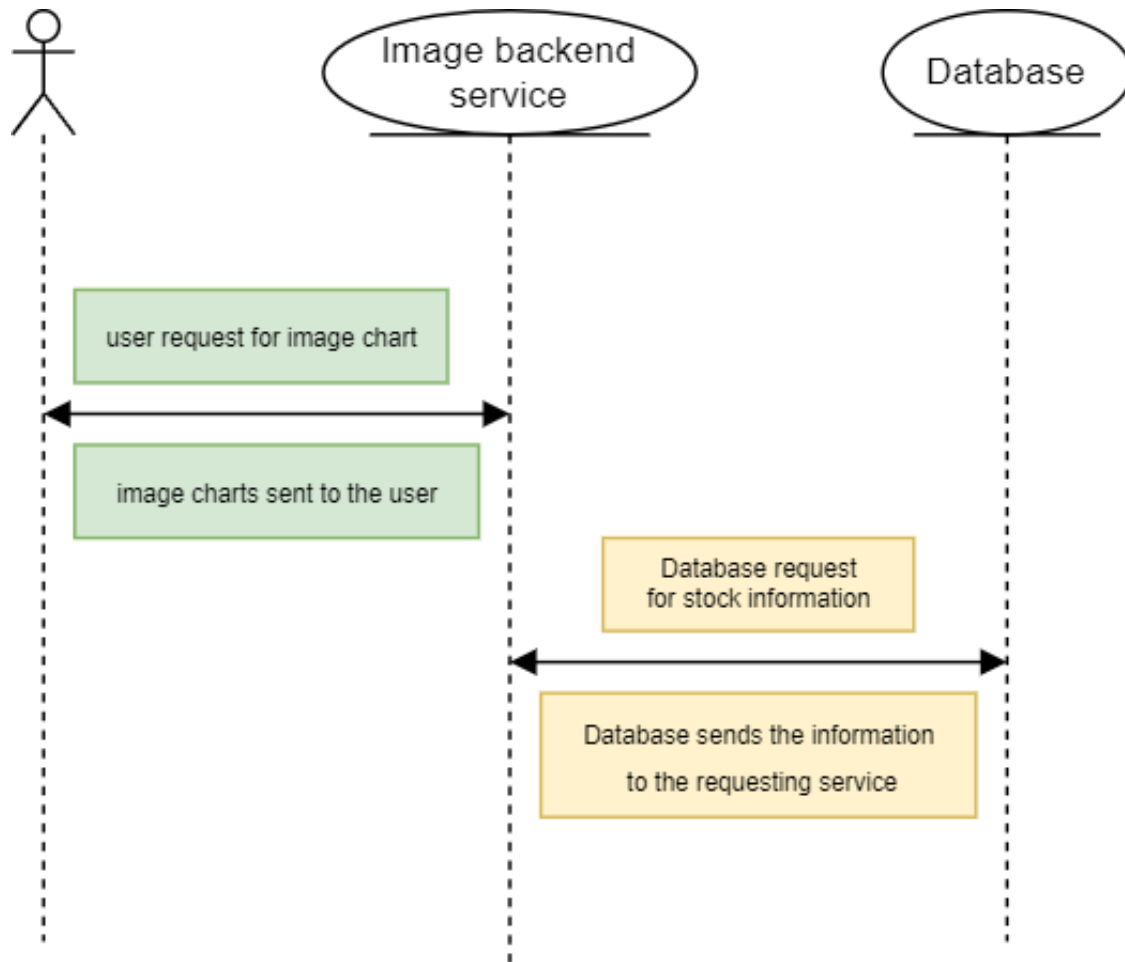


Trade Amplifier: Improving the trading experience | Realtime Market Data Chart Image Generation

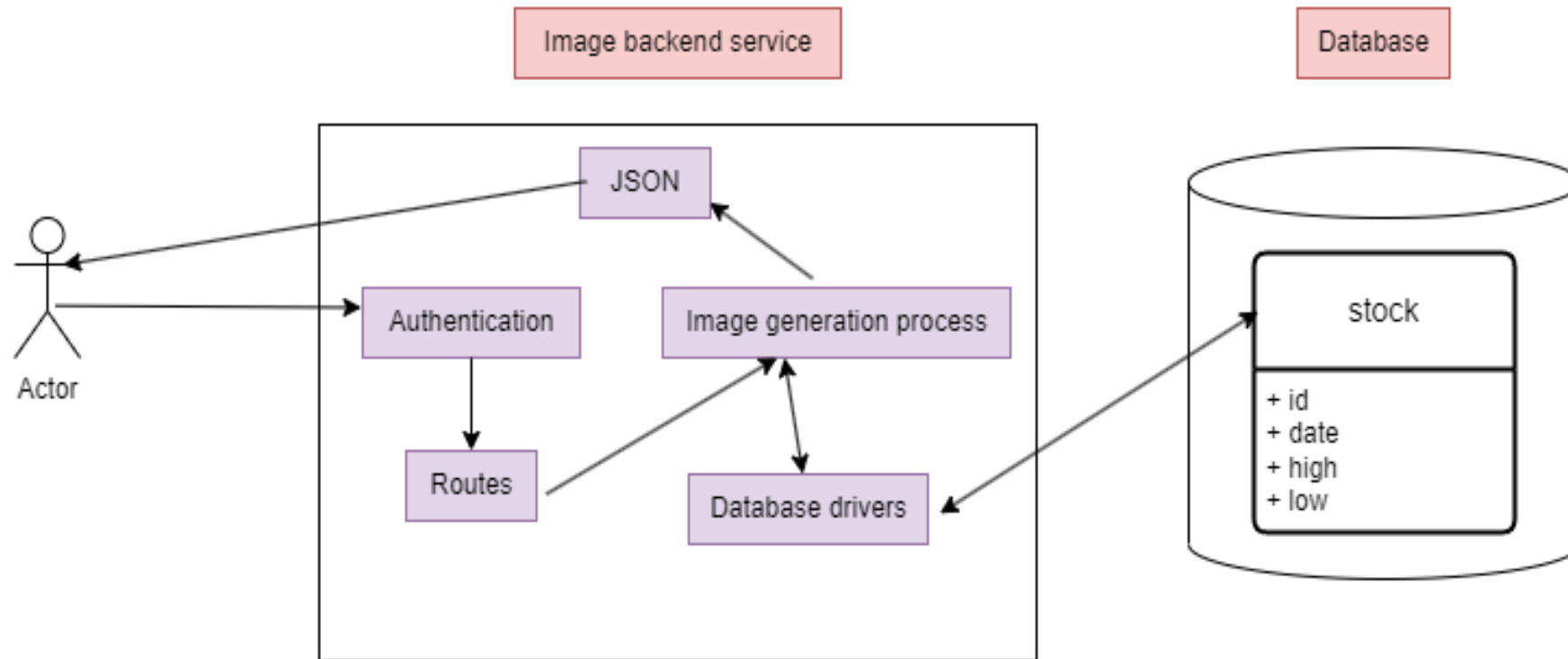


- Golang based microservices approach would be a great solution for such high volume tasks.
- Golang, as a programming language has been developed with a goal of making concurrency as the main objective of the tool, making such services easier to render for multiple users at the same time.

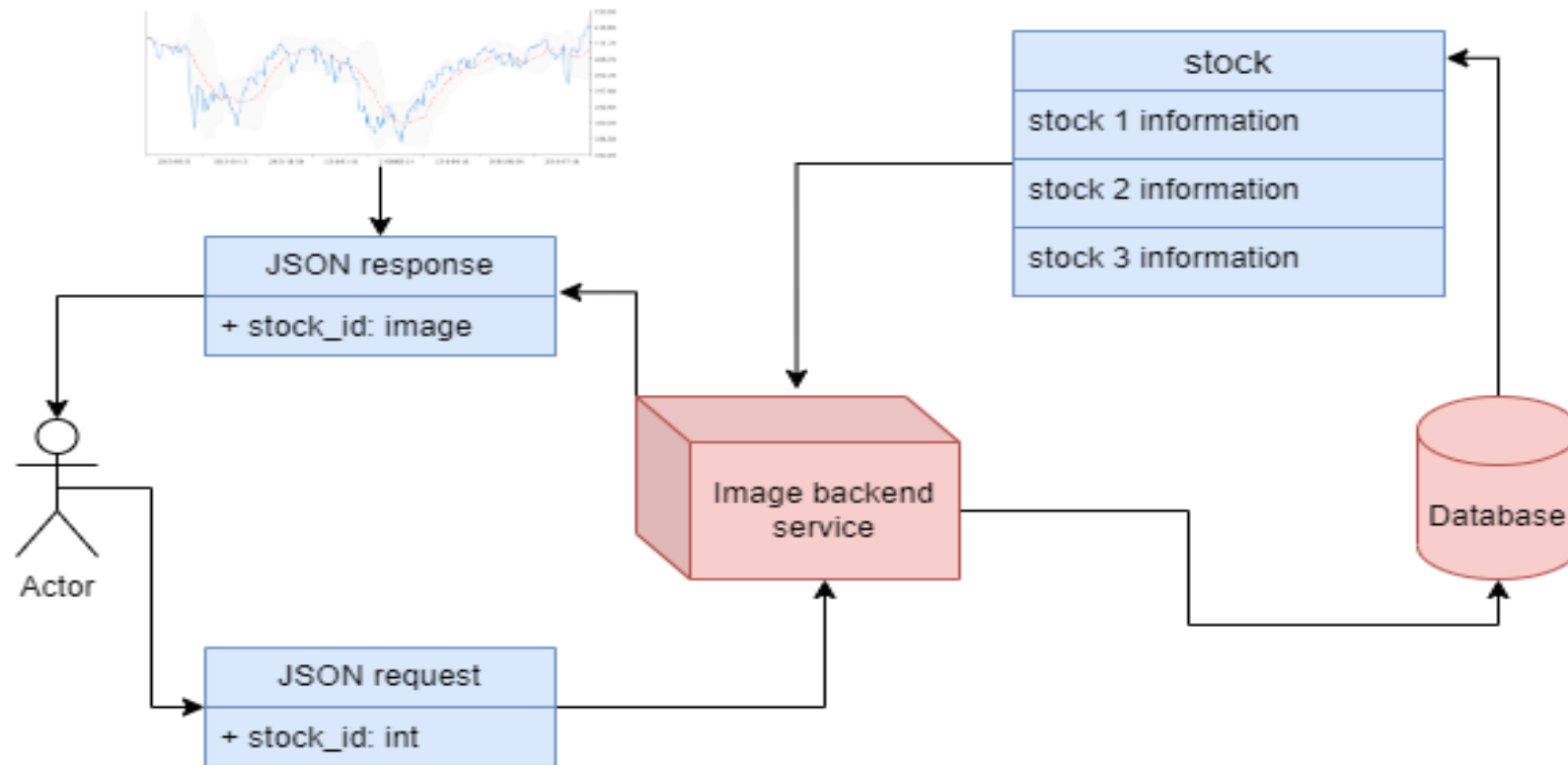
Tech Stack

- Backend : Golang's go-Fiber framework - [link](#)
- Image processing: Golang's canvas package - [github](#)
- Database: PostgreSQL
- Cloud: A docker container can be made that can be deployed with any suitable cloud service provider

Detailed Description of the solution



Data Flow Diagram



Risks/ Challenges / Dependencies

- The data flow could be interrupted at any point in the service process, such exceptions could be easily handled at cloud or at the user level.
- Customer may request image chart of a stock of a newly added company that needs to be addressed.
- Based on how voluminous the requests can be, we might have to rate limit the users.