**Q1: How would you isolate a failing external API?**

* Use circuit breaker pattern (e.g., Laravel Circuit Breaker or Hystrix).
* When failure threshold reached, return cached/placeholder data without hitting the API until a cool-off period ends.

**Q2: How to allow workflows like weather → chuck → github?**

* Implement a workflow engine or job queue (e.g., Laravel Queues + a workflow config).
* Store workflows in DB:

{

"steps": [

{ "service": "weather" },

{ "service": "chuck" },

{ "service": "github", "params": { "username": "octocat" } }

]

}

* Execute sequentially, passing previous step’s output to next.

**Q3: How to monitor 50 APIs with different limits?**

* Maintain API config registry (service name, rate limit, timeout, retry policy).
* Use a monitoring dashboard (Prometheus + Grafana) to track:

Response times

Error rates

Limit usage

* Auto-alert when an API is nearing its limit or failing.