

Micro Services



Type of micro services?

Front end micro services.

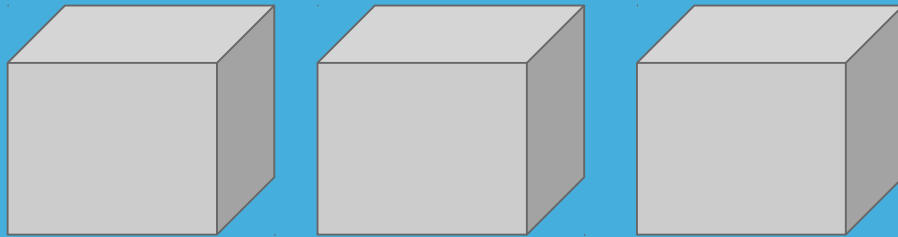
Back end micro services.

Benefits

- Split large applications into small containers.
- Each container can use any programming language and framework.
- Containers are portable.
- Small container spin-up or shutdown fast.

How we can run together?

We use container to run each services separately on same page. Each container app can use different framework.



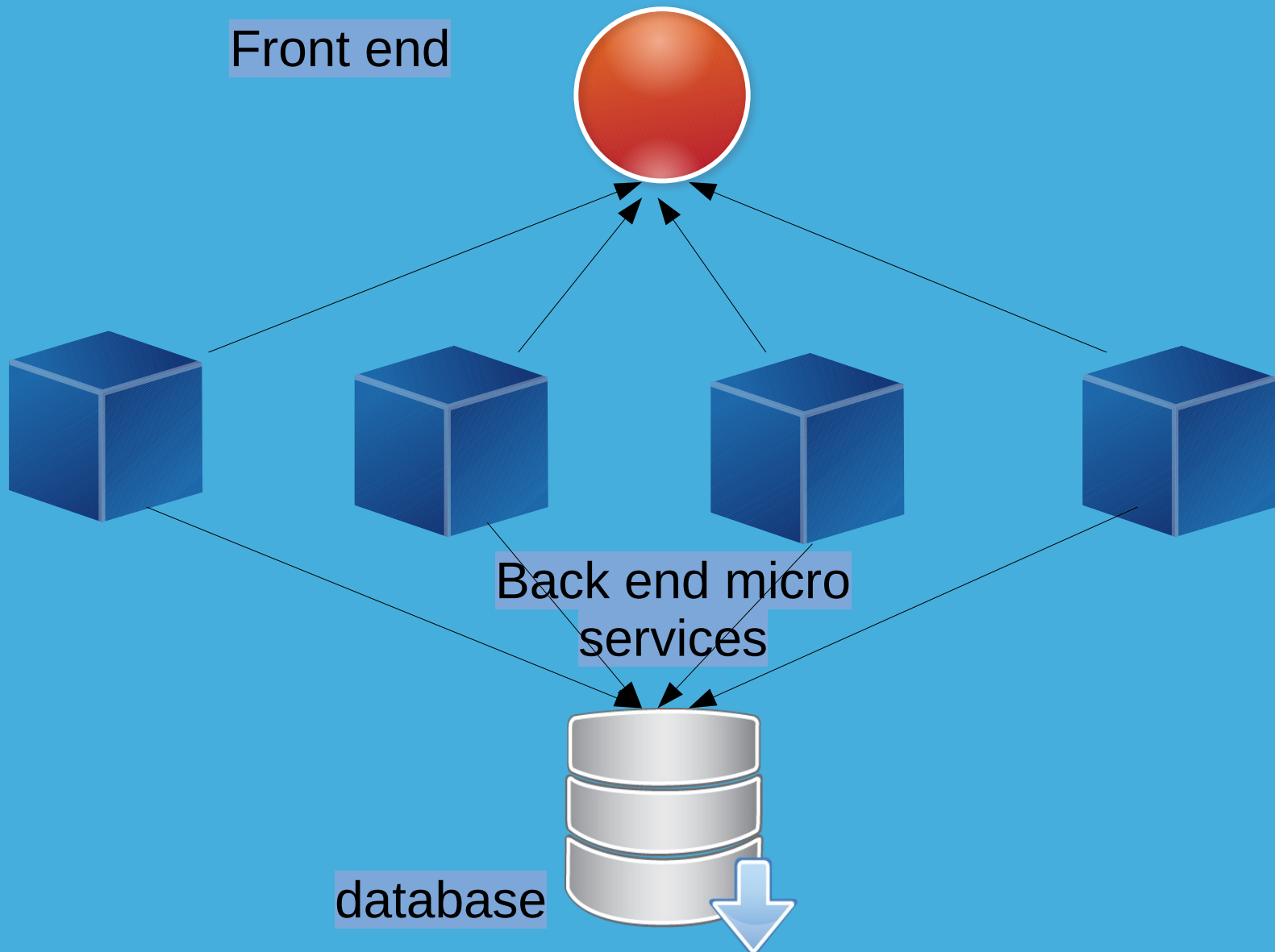
MICRO SERVICES

Splitting large and complex applications into smaller components with a single function

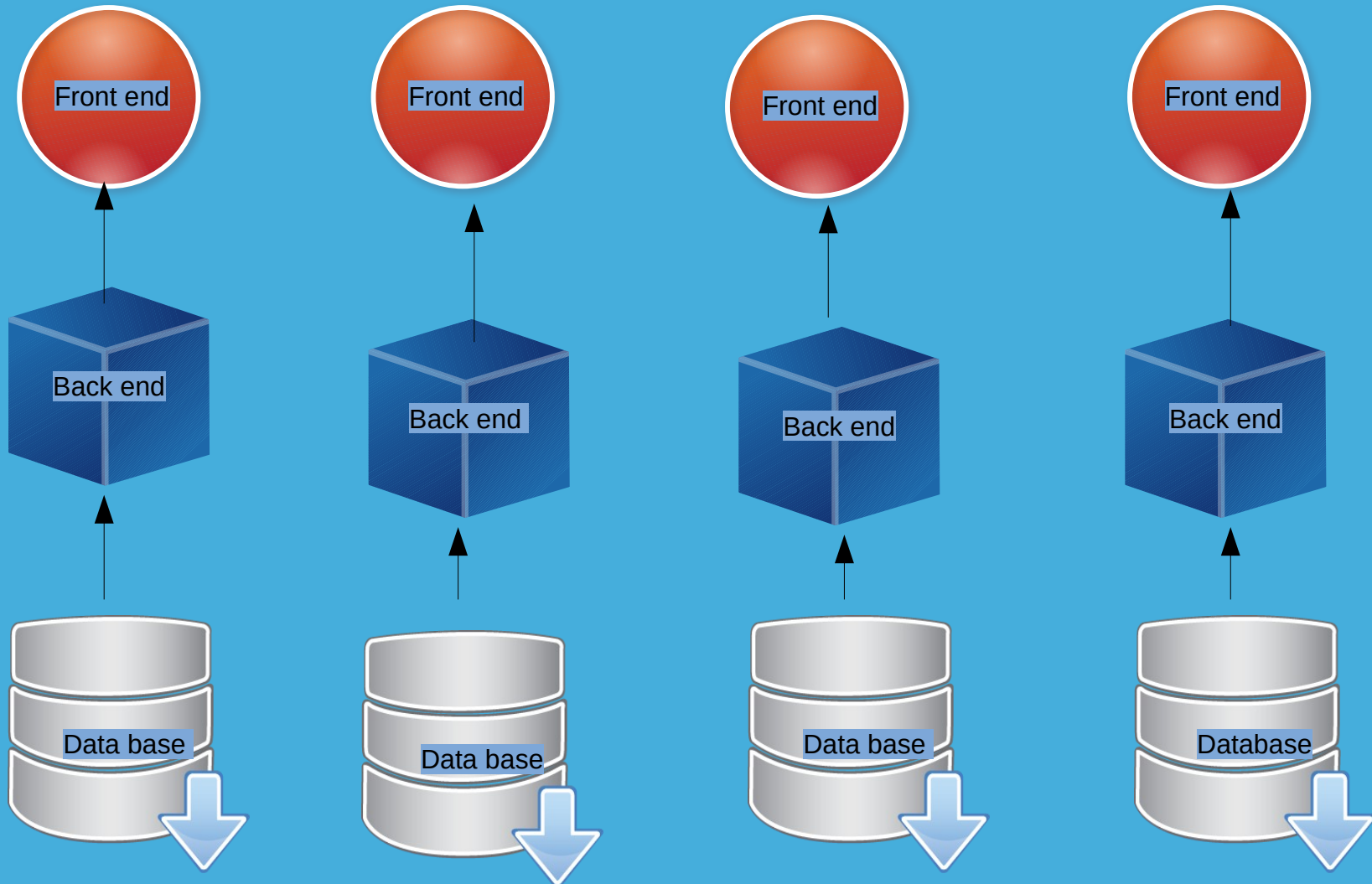
MICRO BACK END

We can use one front end and multiple back ends micro services. Because back end needs heavy computation, so we can divide load for back end multiple micro services

Architecture # 1

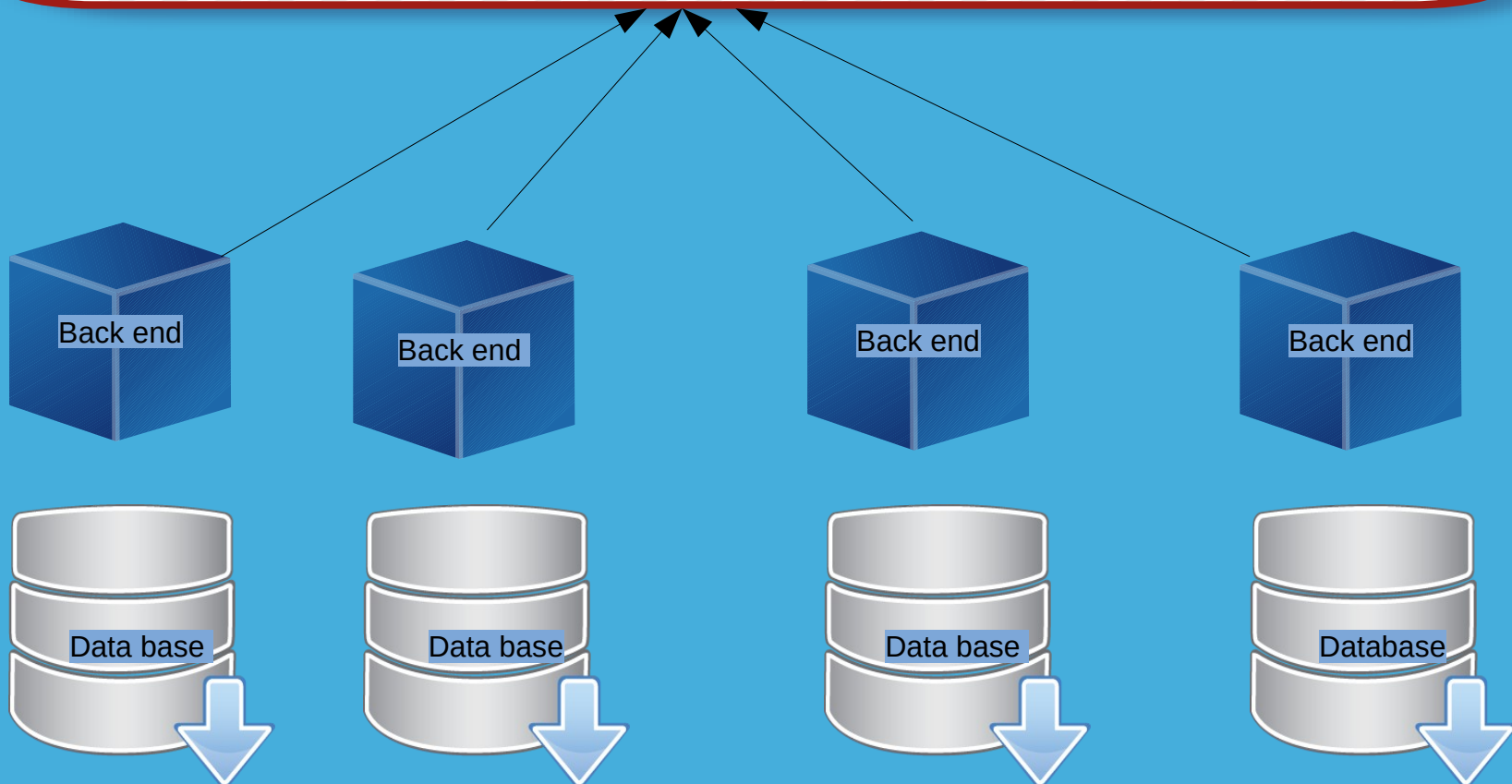


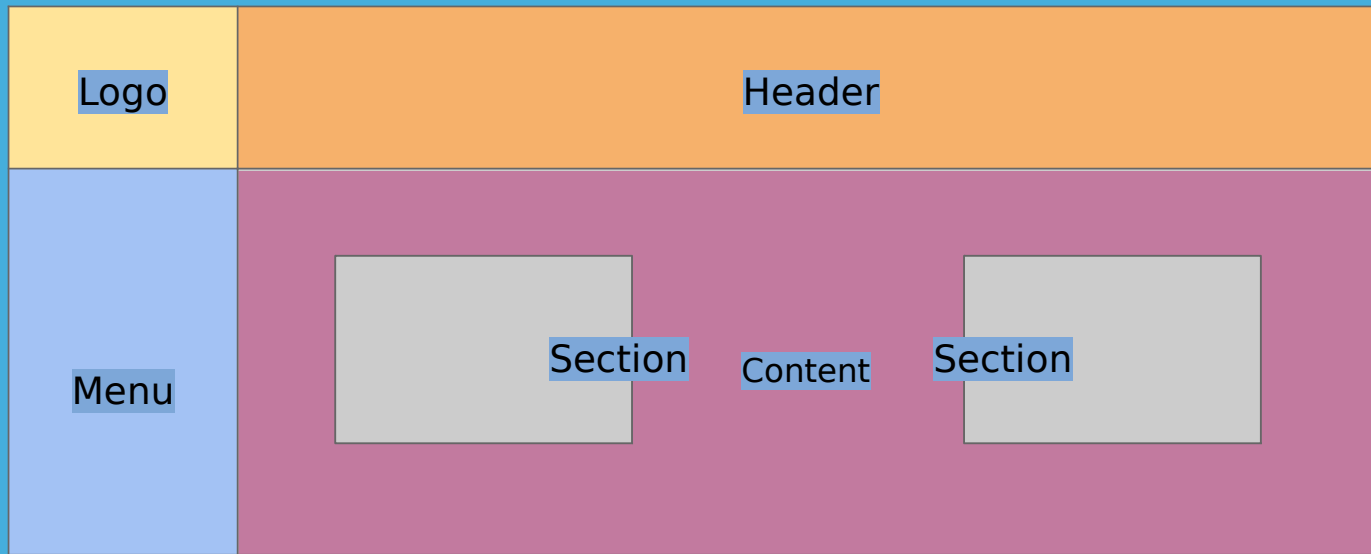
Architecture # 2



Architecture # 3

Front end consuming multiple Back end





MICRO Fronted

Splitting large UIs into smaller
web modules and web
components

Principles

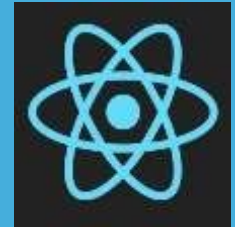
- Stand-alone run
- Independent development
- Stand-alone deployment

Routing

- Each route is a different project
- Use HTTP server routing to redirect multiple apps
- Easy implementation
- Independent development

Routing

Menu 1 - /myapp/menu1



Menu 2 - /myapp/menu2



Menu 3 - /myapp/menu3



■ i Frame

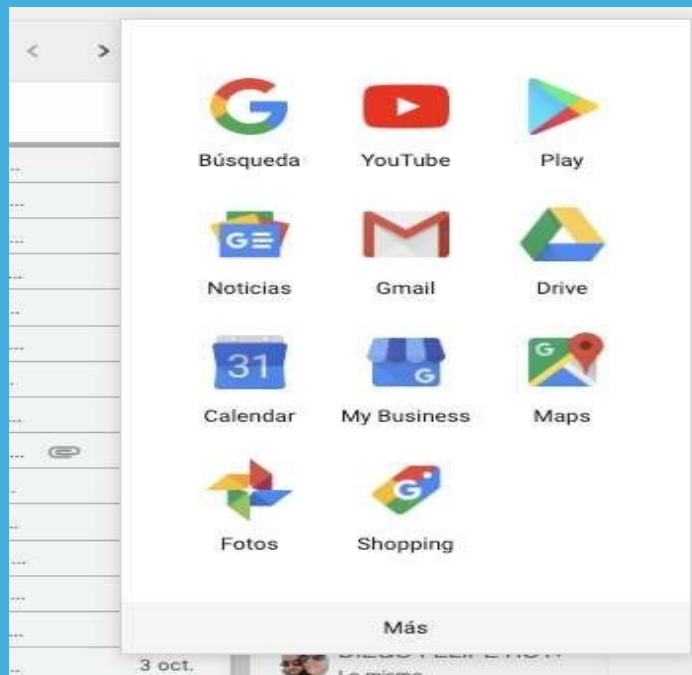
- Embedded modules and projects
- Easy to implement
- Complex to maintain
- Very useful in legacy projects

Micro-Apps

- Fast distributed development
- Challenging integration
- Few reusable components
- Independent development

Micro-Apps

Examples:



■ Pure components

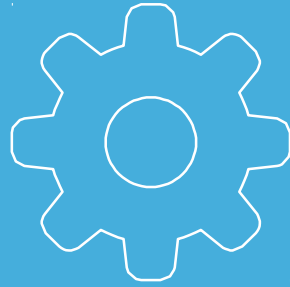
- Javascript functions
- Internal libraries
- Npm, unpkg, etc.
- Advanced JS knowledge is required



**Frameworks make
life EASY**



Luig, Single spa,



Demo App

infrastructure

(iframe
src=localhost:500)

React
App-1

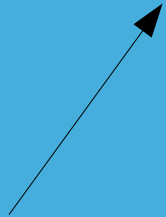
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src=localhost:80)

React
App-2

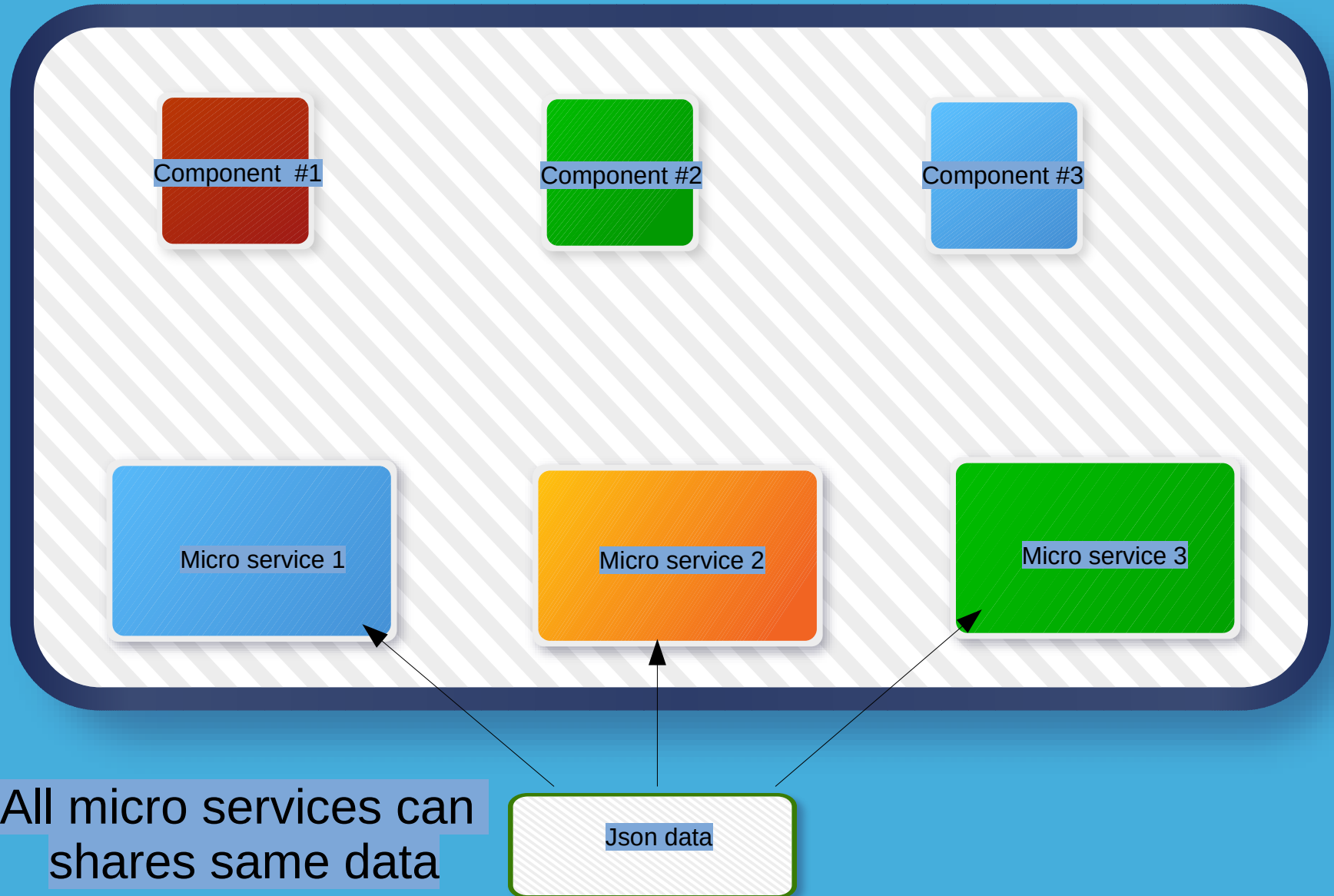
HTML page

Node-api

Mysql-db



HTML page holding iframes for microservices



THANKS!

