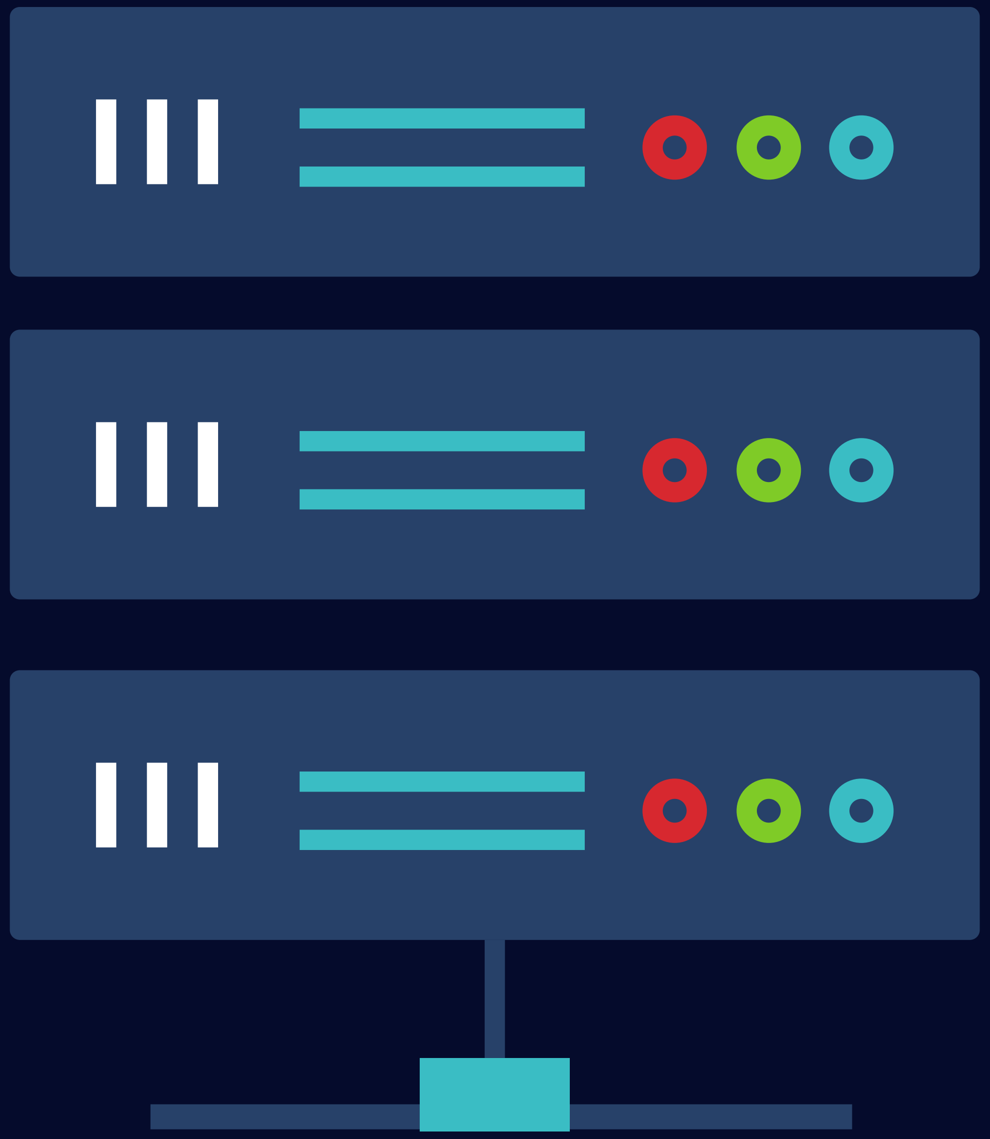
NODE JS

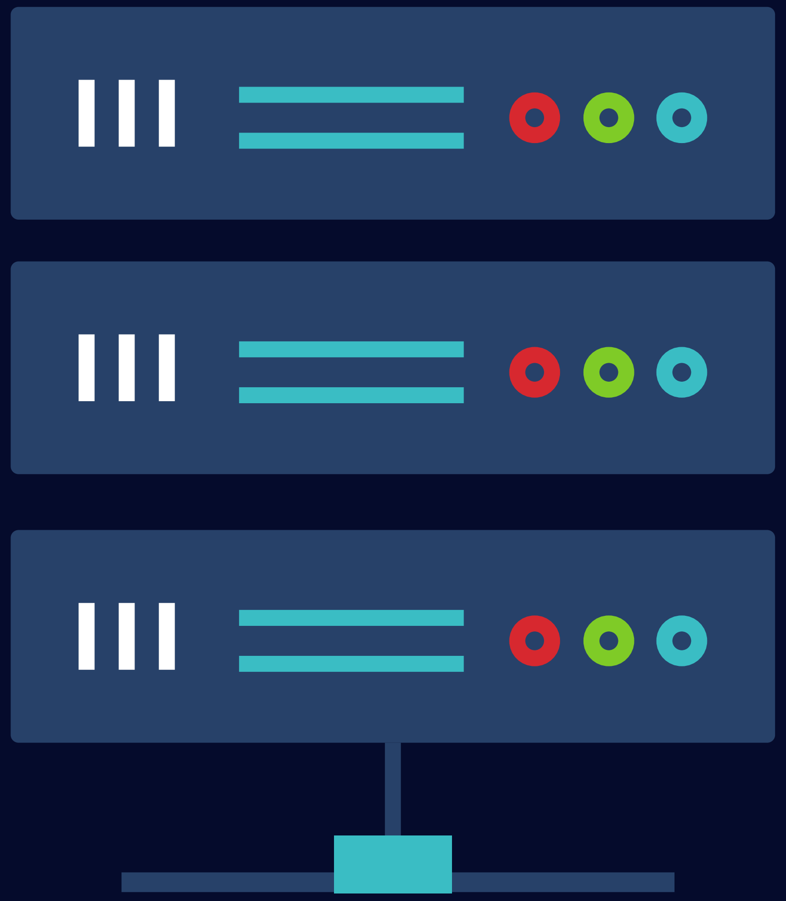
what is backend Development?

Components of a web application

What is a server?



What is a server



It is a program that accepts requests from clients and responds to those requests

NODE JS

NODE JS

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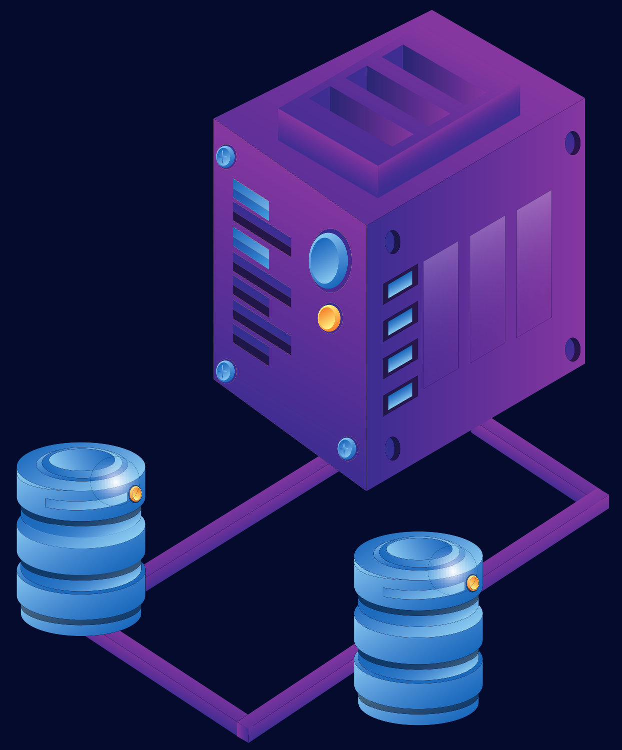

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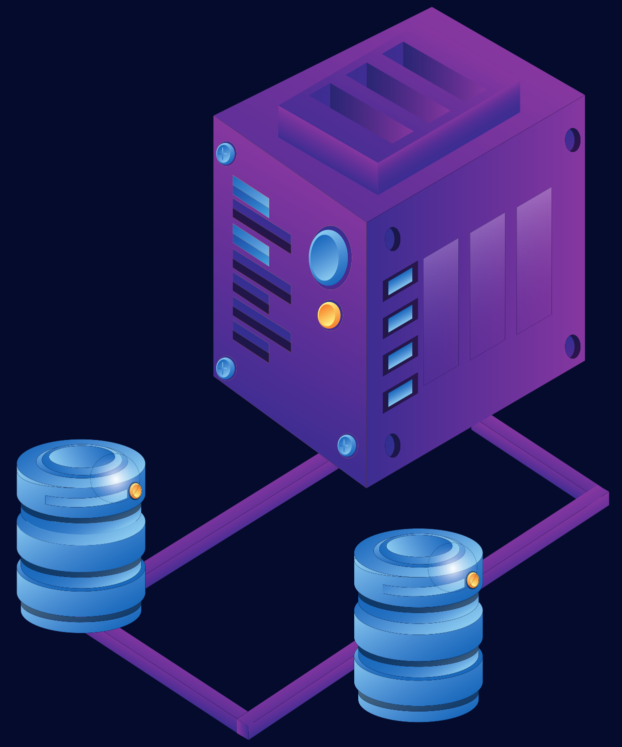

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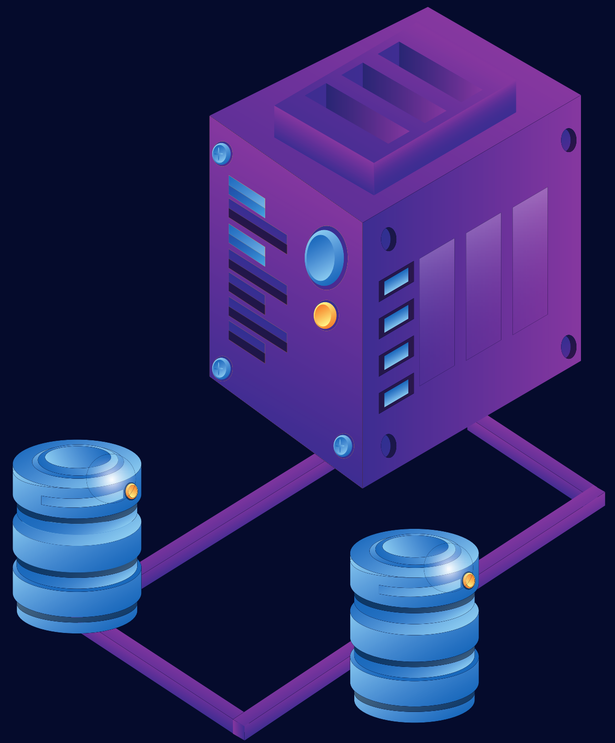

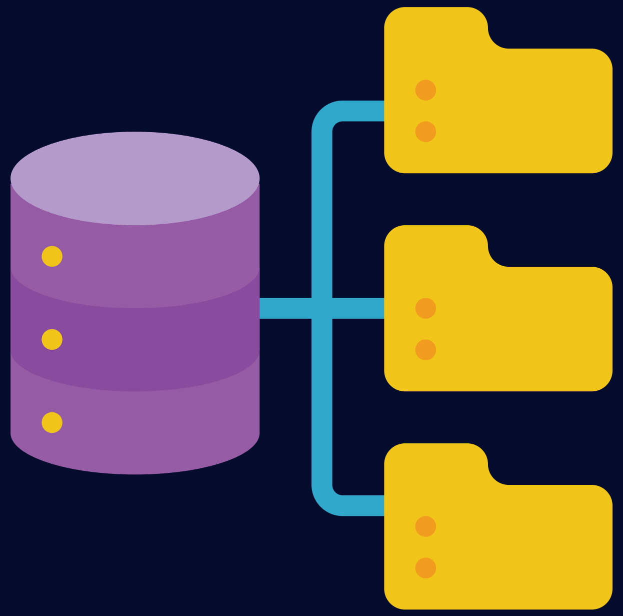

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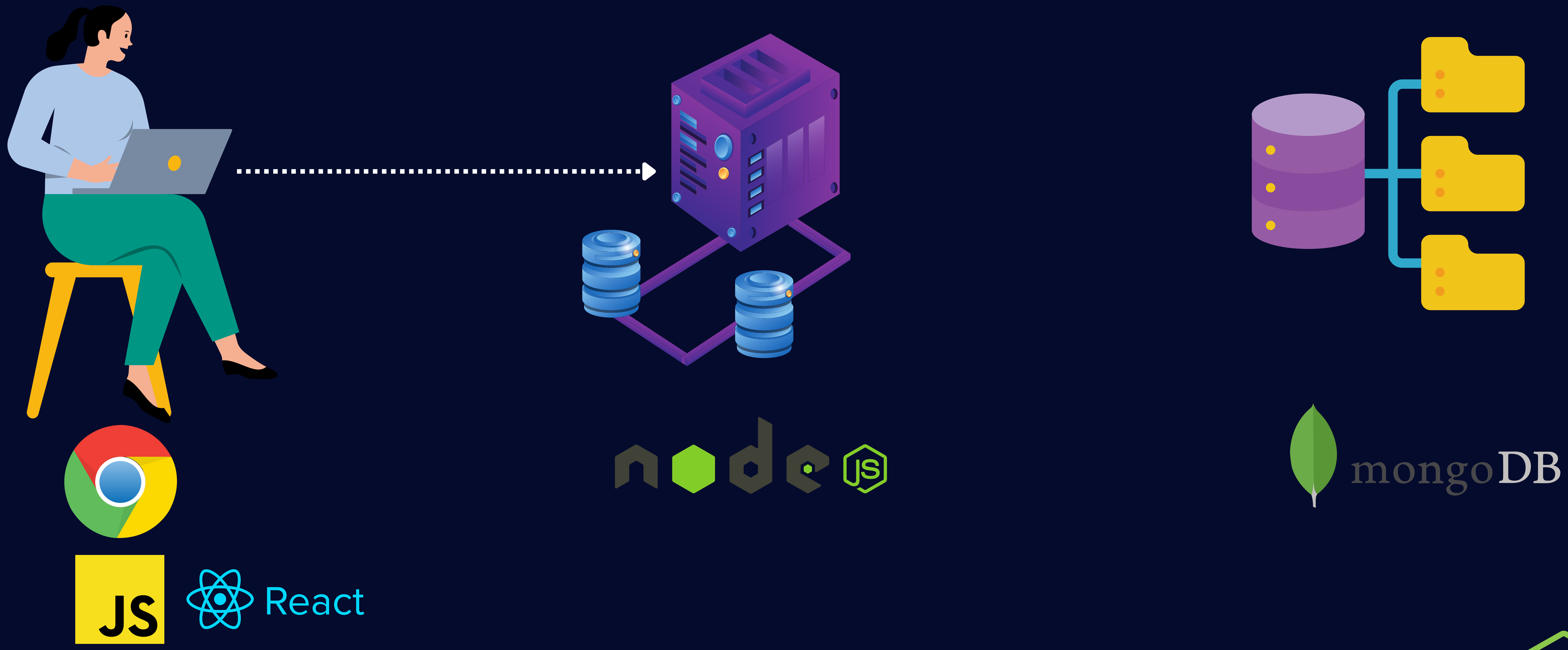

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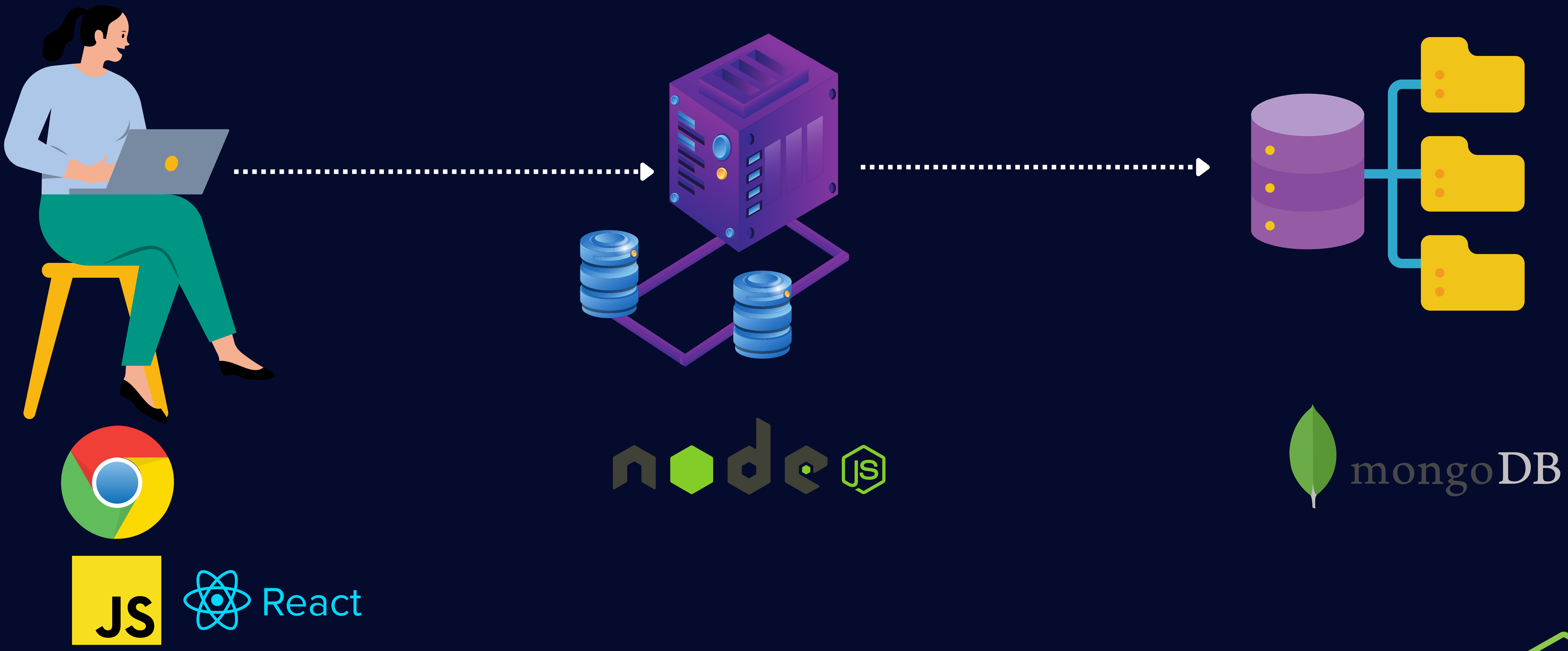

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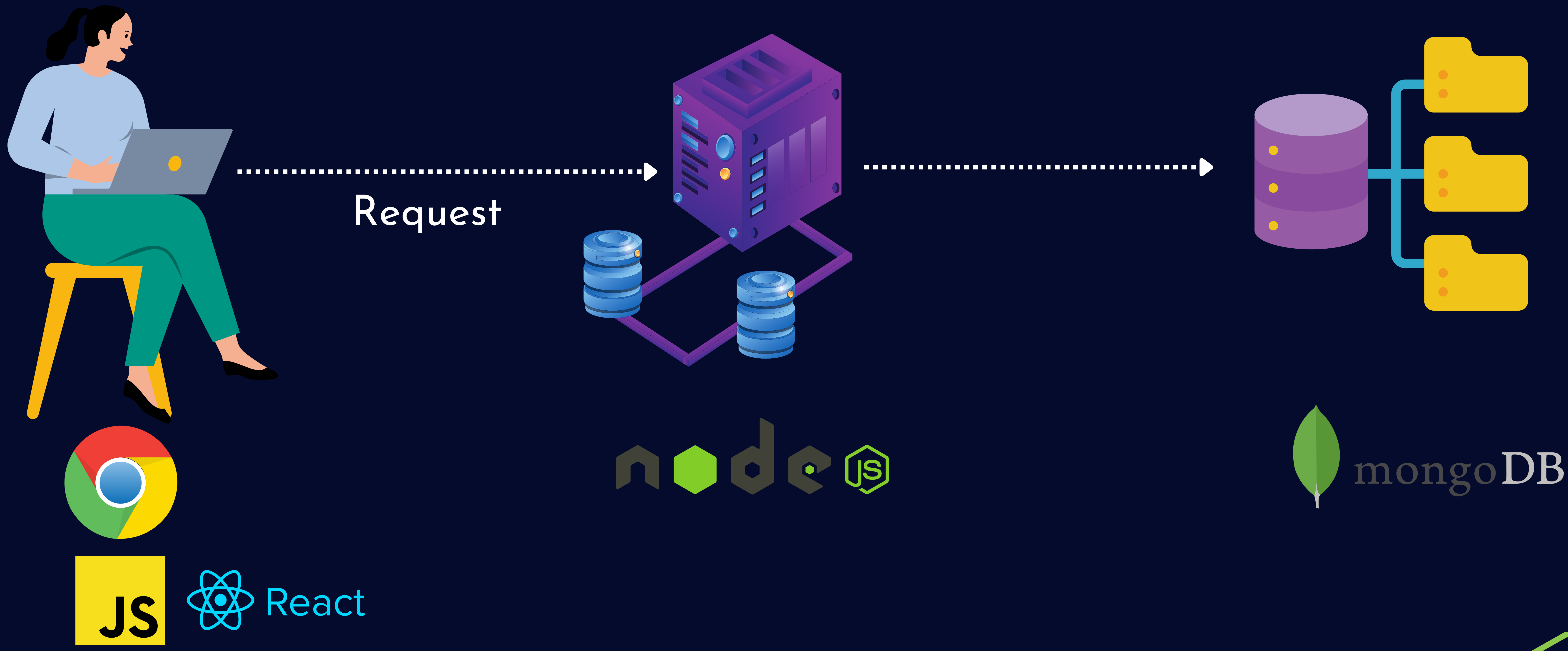

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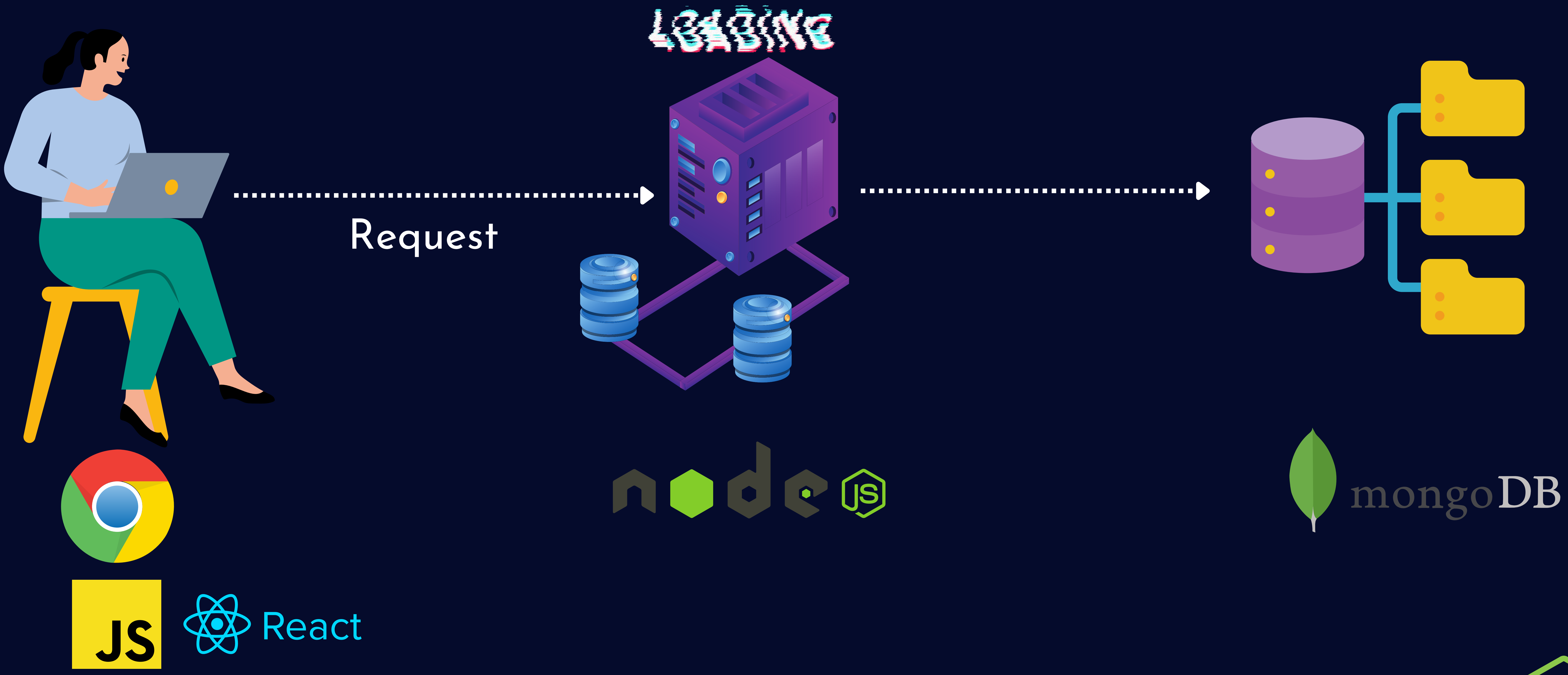
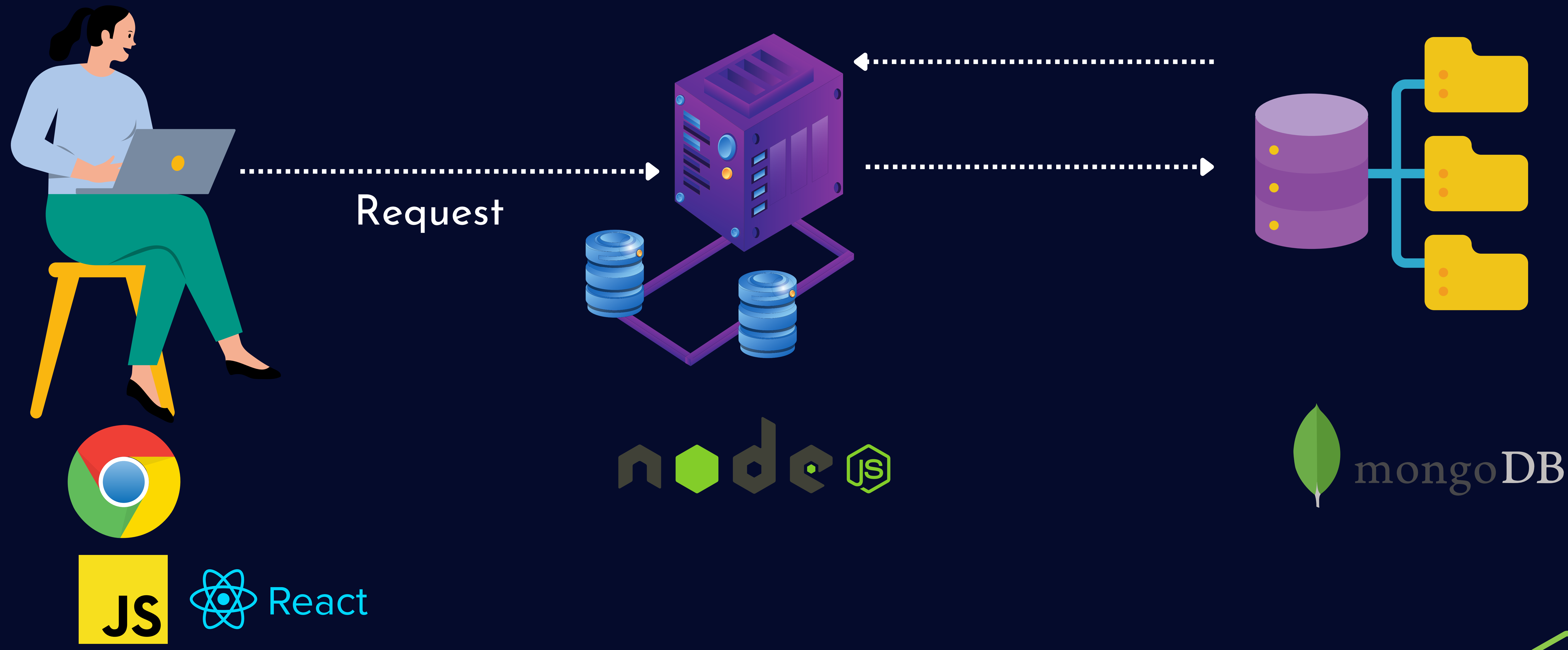


Request

NODE JS



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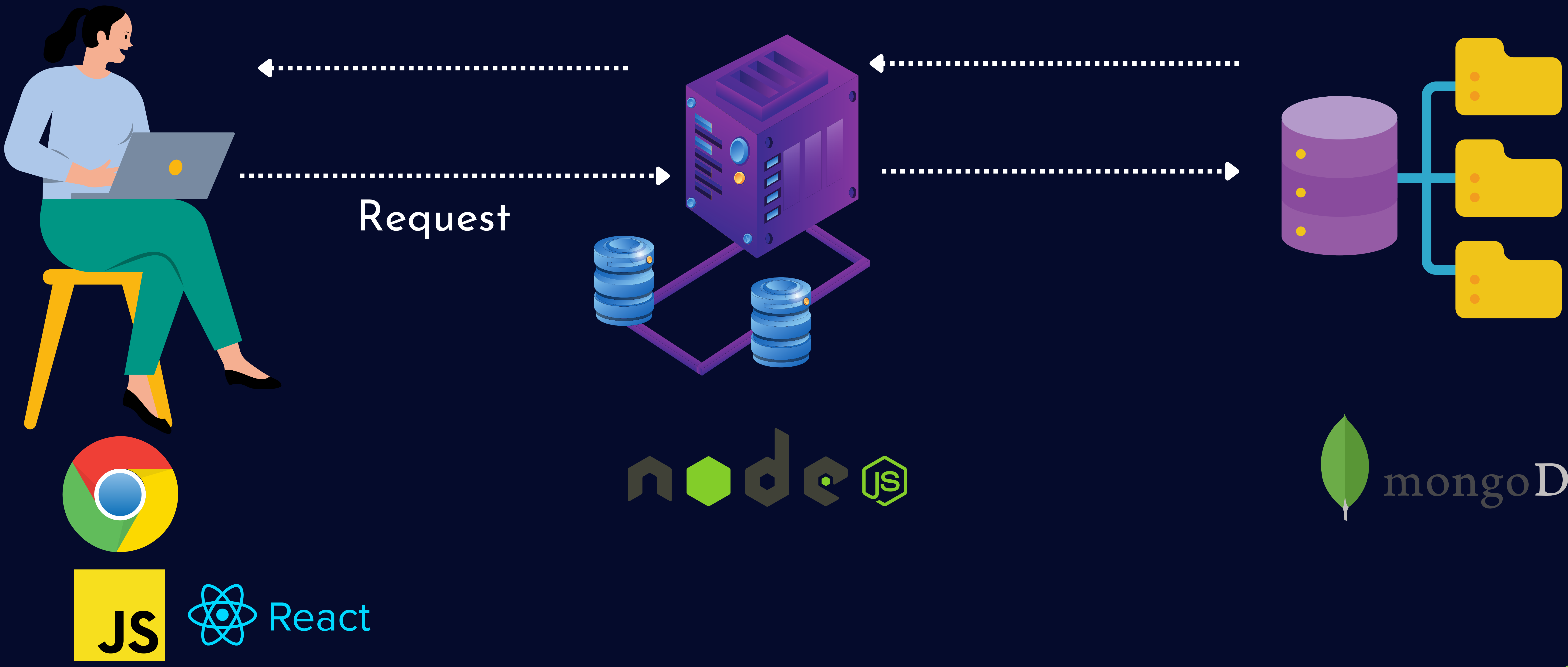

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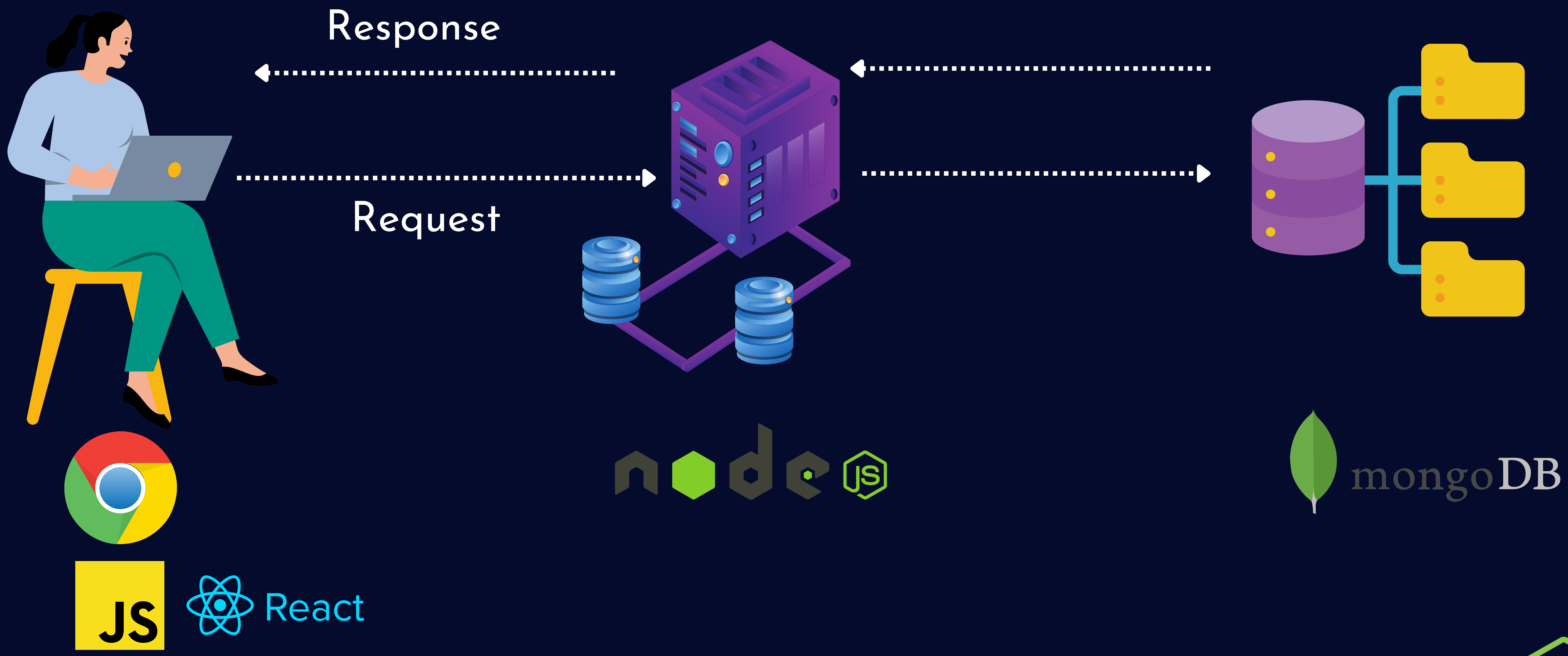

NODE JS

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backend lopment

NODE JS

what is backend Development?

NODE JS

backend lopment

A backend developer is a software engineer who specializes in the development of server-side applications

backend Developer Roles

NODE JS

backend Developer Roles

- Implement business logic of an application

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- Implement business logic of an application
- Act as the server-side counterpart to front-end web developers

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- Optimize server-side code for performance
- Handle server security issues

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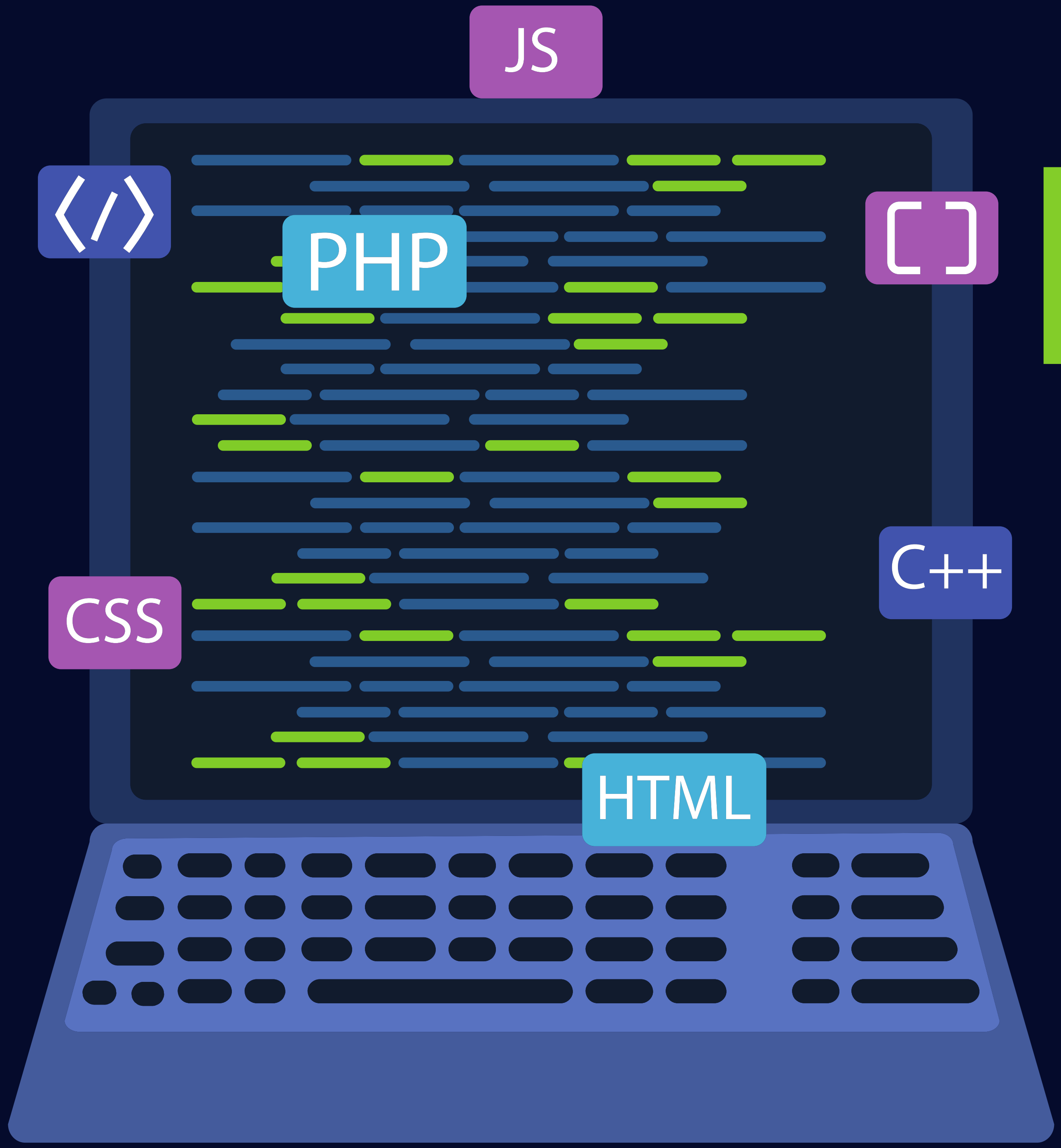
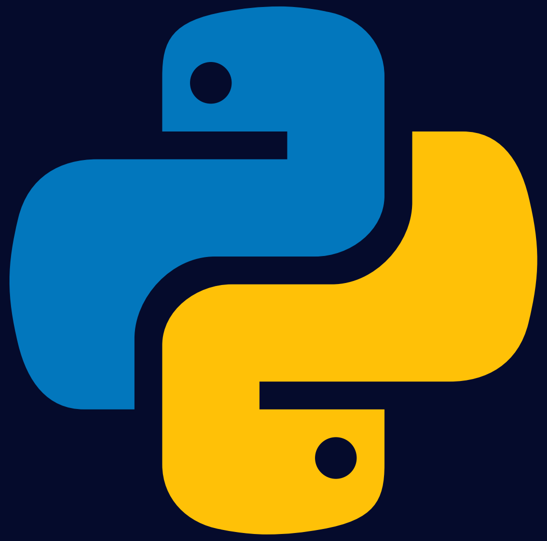
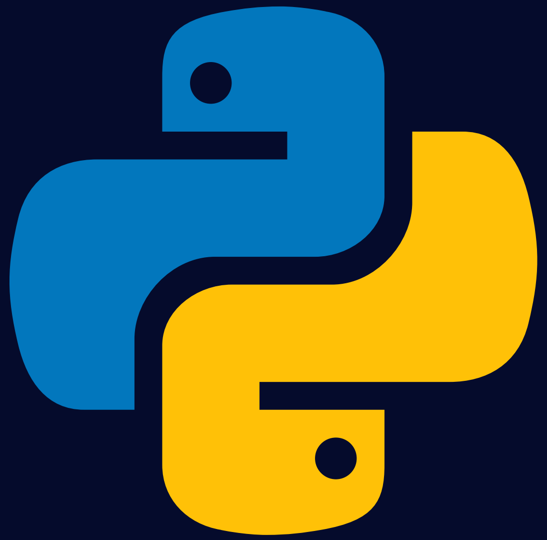


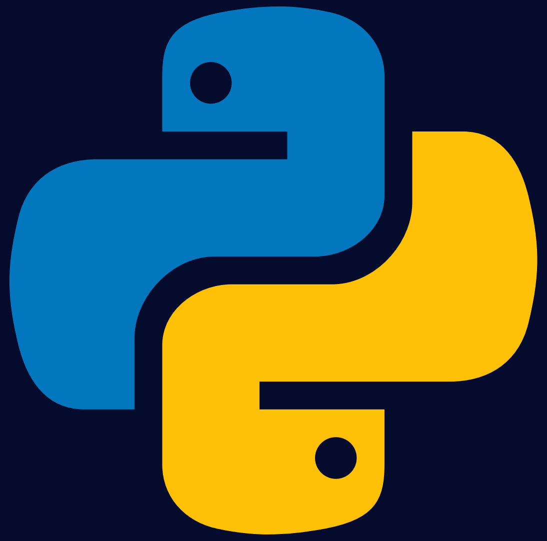
Programming Languages





C++

NODE JS



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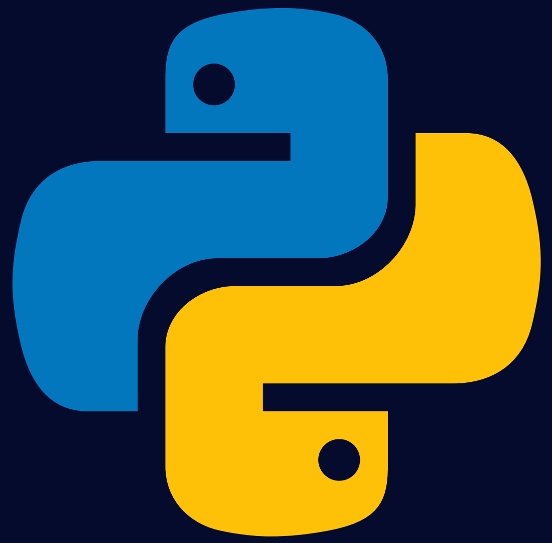

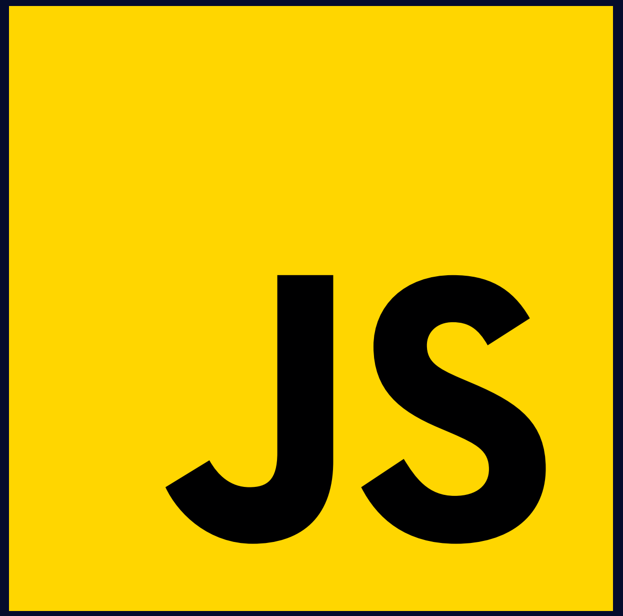

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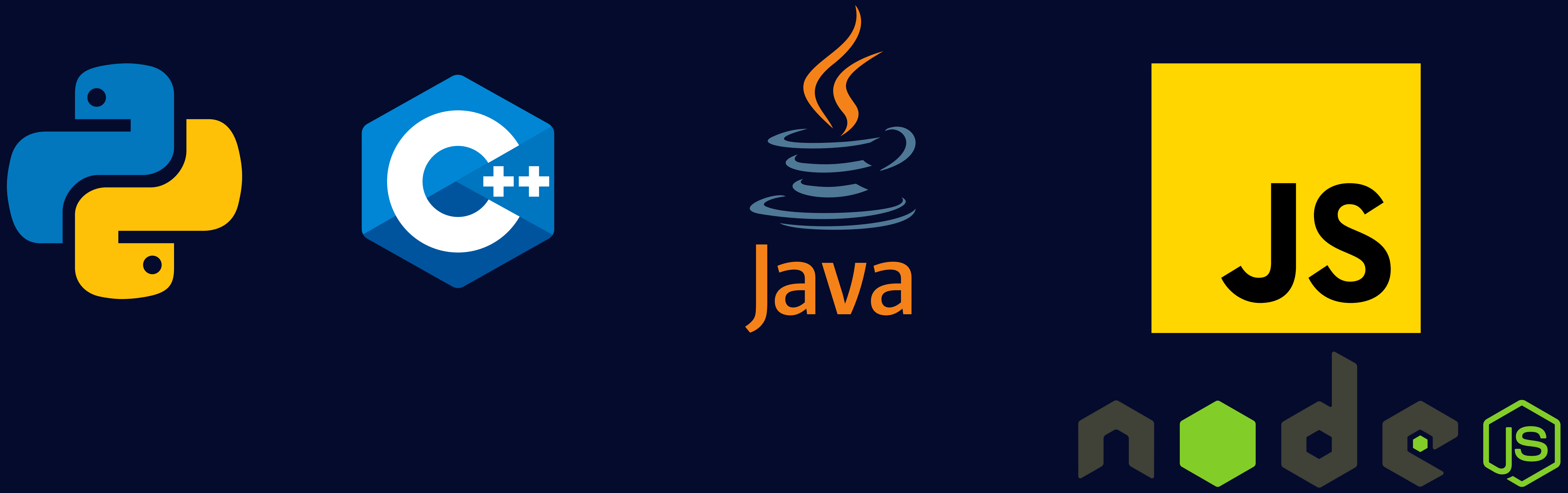


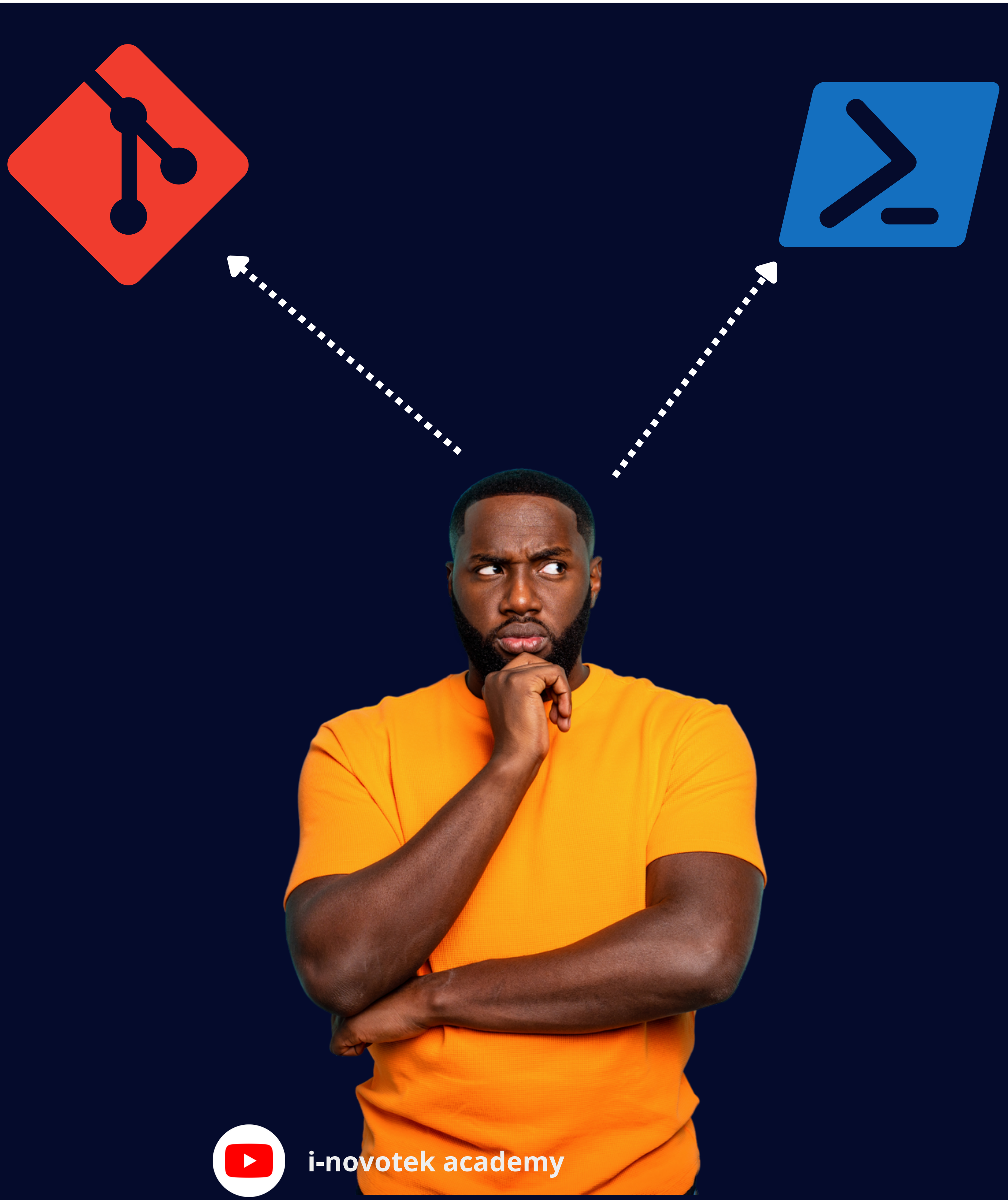
NODE JS

What You need to know

NODE JS

NODE JS

NODE JS



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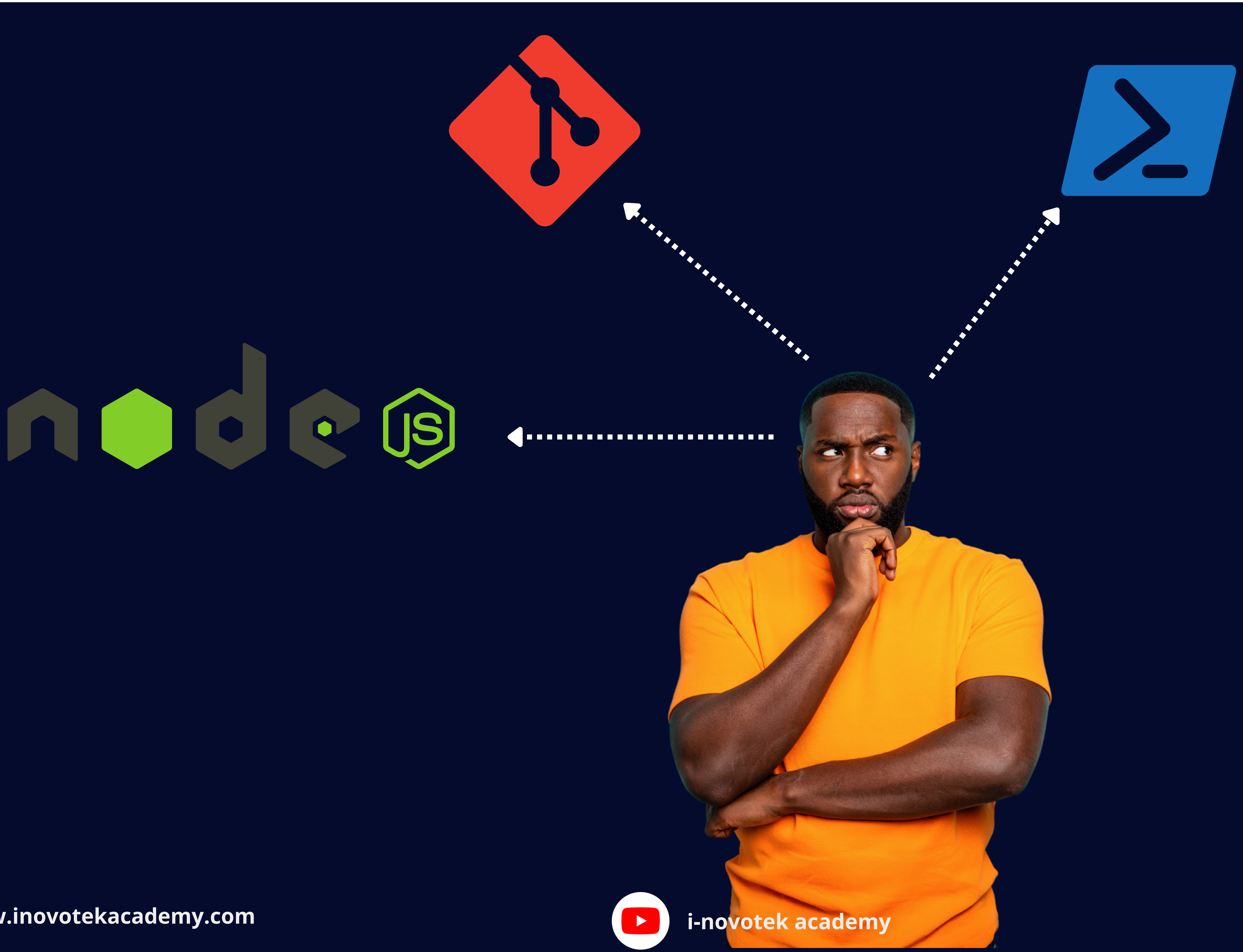

NODE JS

Command Line

Confusing Terminologies

Confusing Terminologies

Confusing Terminologies

👉 Terminal

Confusing Terminologies

👉 Terminal

👉 Shell

Confusing Terminologies

👉 Terminal

👉 Shell

👉 Command Line

Confusing Terminologies

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Command Line

A command-line interface is any kind of interface that is used by entering (textual) commands. The terminal is one of these, but some programs have their own command-line interfaces.

GIT

GIT (Version Control System)

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A GIT is a software that helps developers keep track of the changes they make to their code. This is helpful because it makes it easy to go back and see what changes were made and when.

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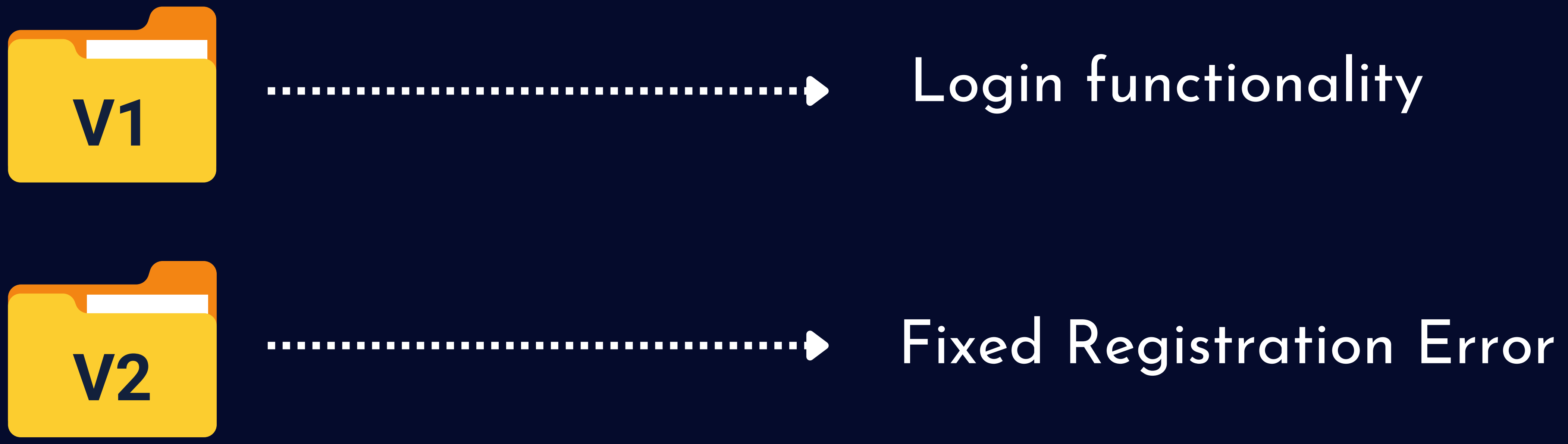
V1
Login functionality

GIT (Version Control System)

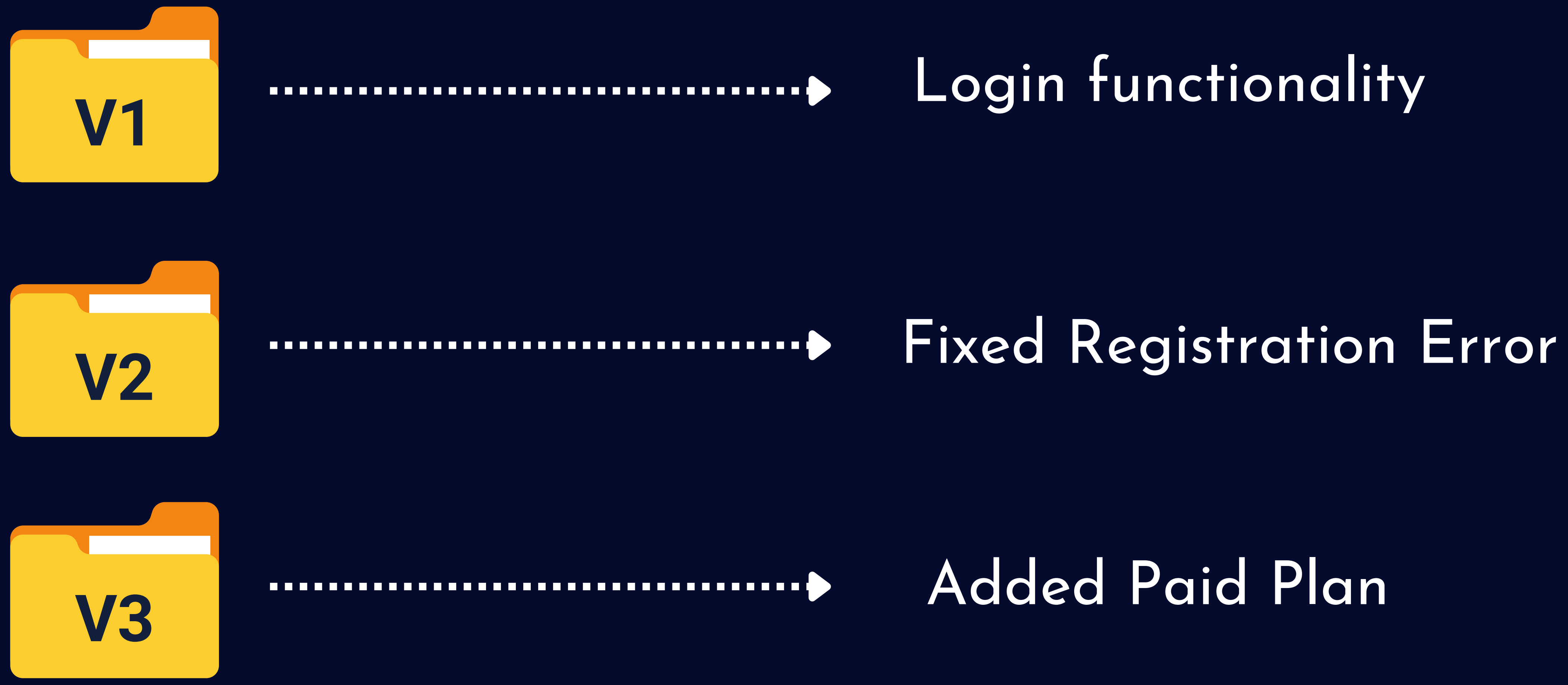


Login functionality

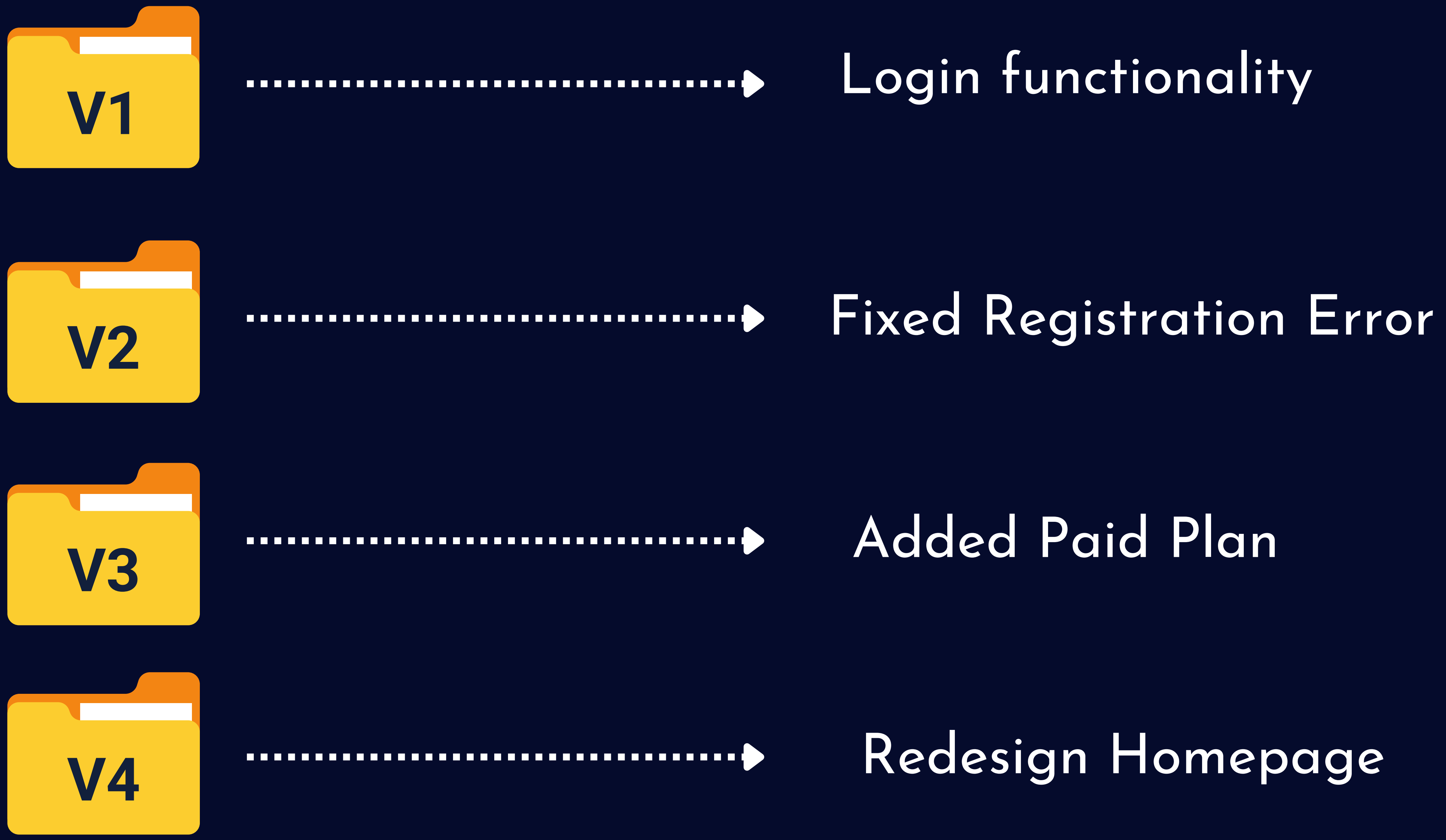
Fixed Registration Error

GIT

GIT (Version Control System)



GIT (Version Control System)



COMMON COMMANDLINE COMMANDS

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- **pwd** → Print Working Directory

COMMON COMMANDS

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COMMON COMMANDS

- pwd ⟶ Print Working Directory
- mkdir ⟶ Makes a new directory
- touch ⟶ Create a file

COMMON COMMANDS

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- touch ⟶ Create a file
- ls ⟶ Lists all files and folders in the current directory
- cd ⟶ Change Directory

COMMON COMMANDS

pwd	→	Print Working Directory
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touch	→	Create a file
ls	→	Lists all files and folders in the current directory
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rm	→	Remove a file

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- **touch** → Create a file
- **ls** → Lists all files and folders in the current directory
- **cd** → Change Directory
- **rm** → Remove a file
- **rmdir** → Removes an empty directory
- **rm -rf** → Removes a folder and all of its contents. BE CAREFUL! This command cannot be undone!

Getting Started With Node JS

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Node JS

What is Node JS ?

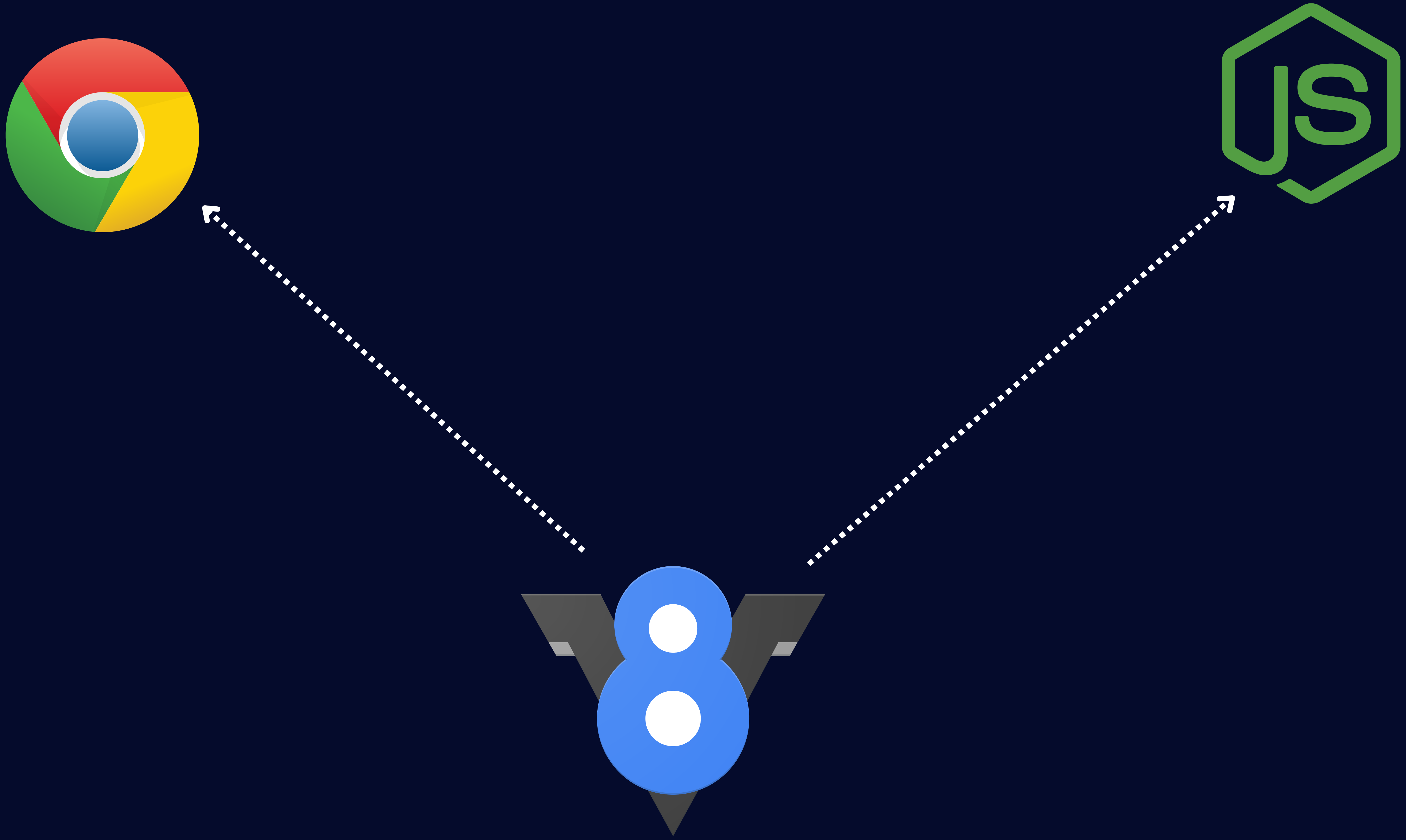
Node.js is a JavaScript runtime built on Chrome's V8 JavaScript engine. Node.js uses an event-driven, non-blocking I/O. (input and output) model that makes it lightweight and efficient

JS Environments

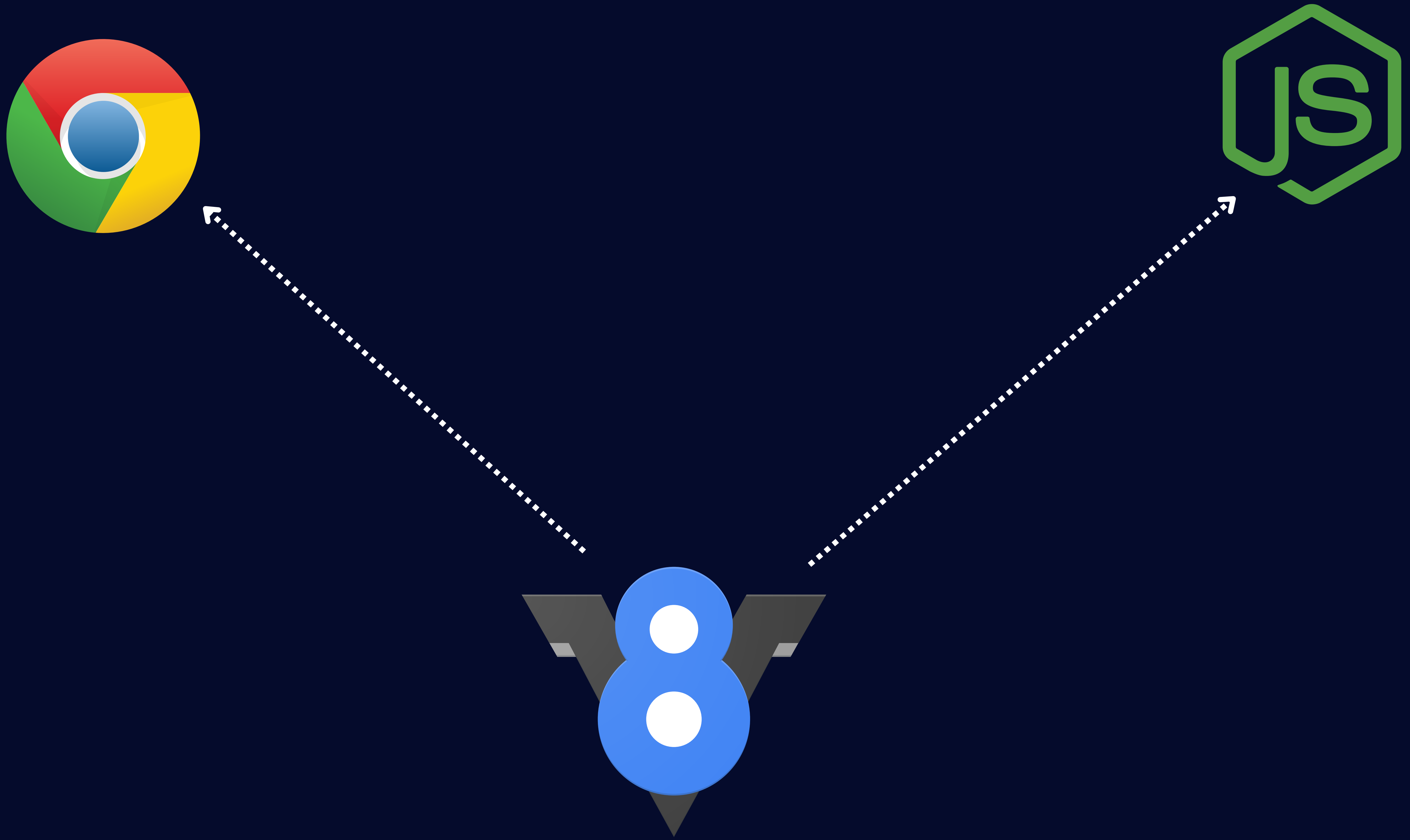
JS Environments

JS Environments

JS Environments



JS Environments



Node js was built on top of chrome v8 engine

NODE JS

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Why use Node JS?

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- It uses an event-driven, non-blocking I/O model that makes it lightweight and efficient
- It has a large and active open-source community
- It runs on various platforms, including Windows, Linux, and macOS.
- It supports real-time data applications with features such as WebSockets and WebRTC

Uses of Node JS

Uses of Node JS

Uses of Node JS

- Developing web applications

Uses of Node JS

- Developing web applications
- Building chatbots

Uses of Node JS

- Developing web applications
- Building chatbots
- Creating real-time applications

Uses of Node JS

- Developing web applications
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- Streaming video and audio

Uses of Node JS

- Developing web applications
- Building chatbots
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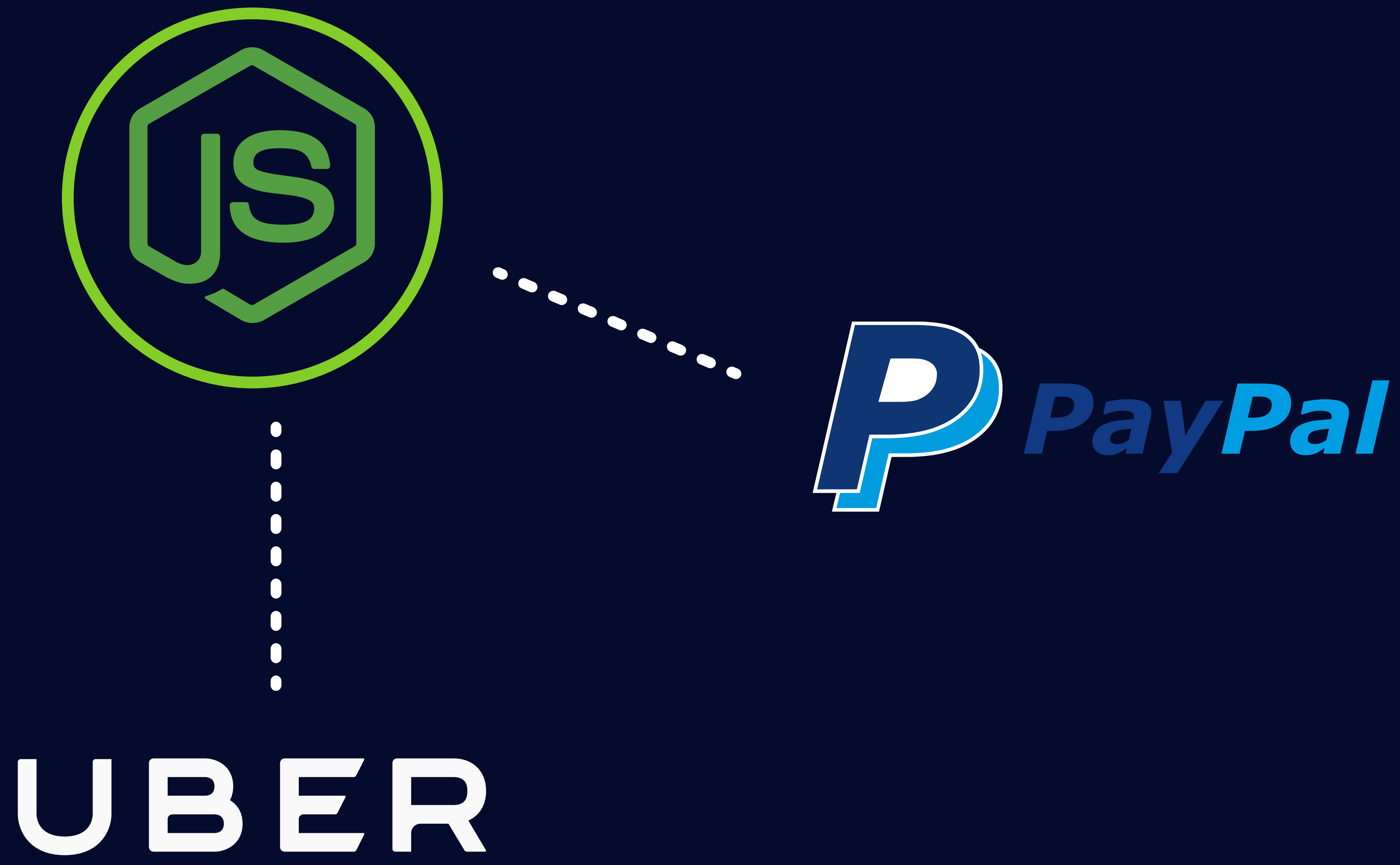
- Building microservices

Who uses Node JS?

JS

UBER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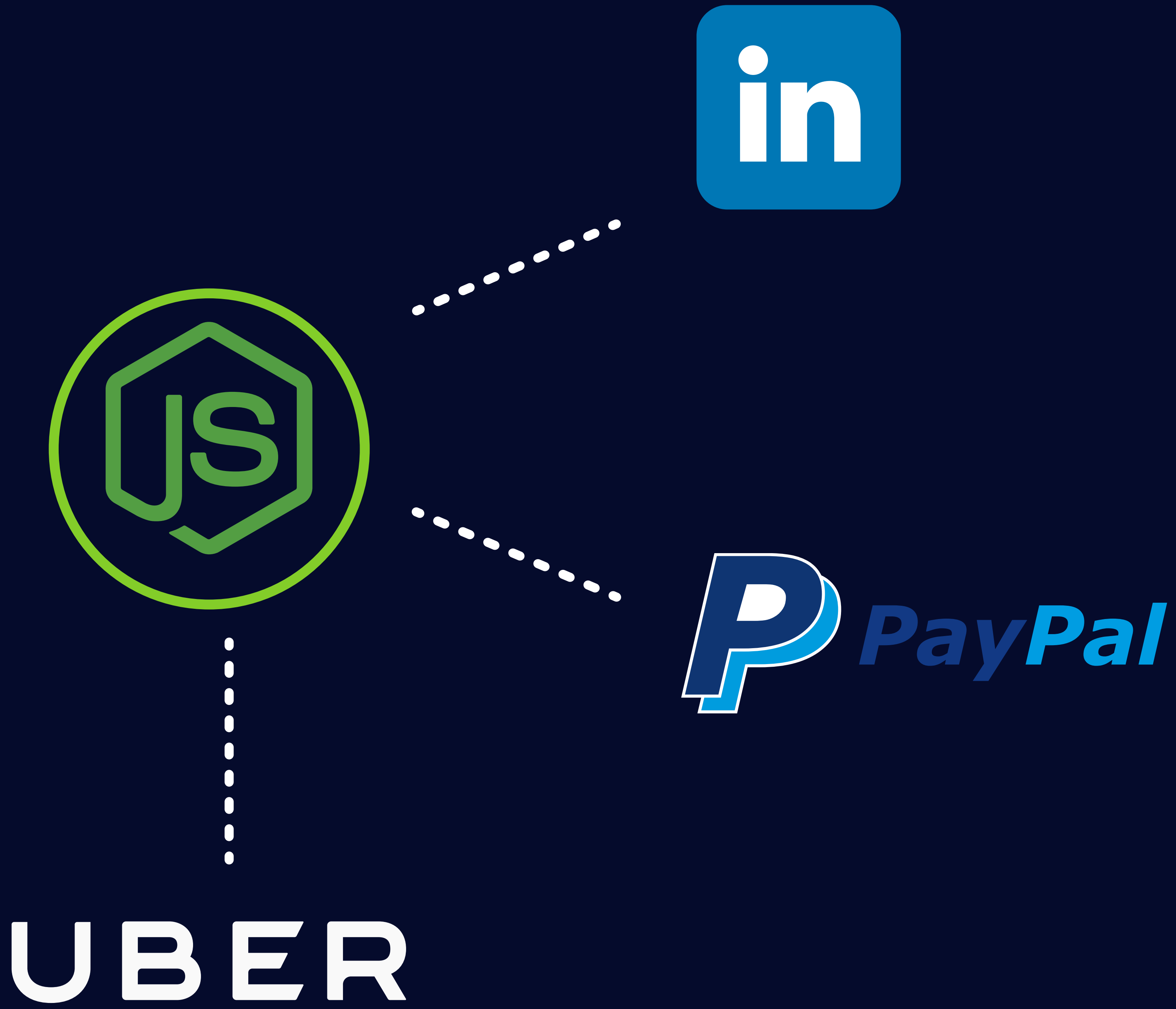
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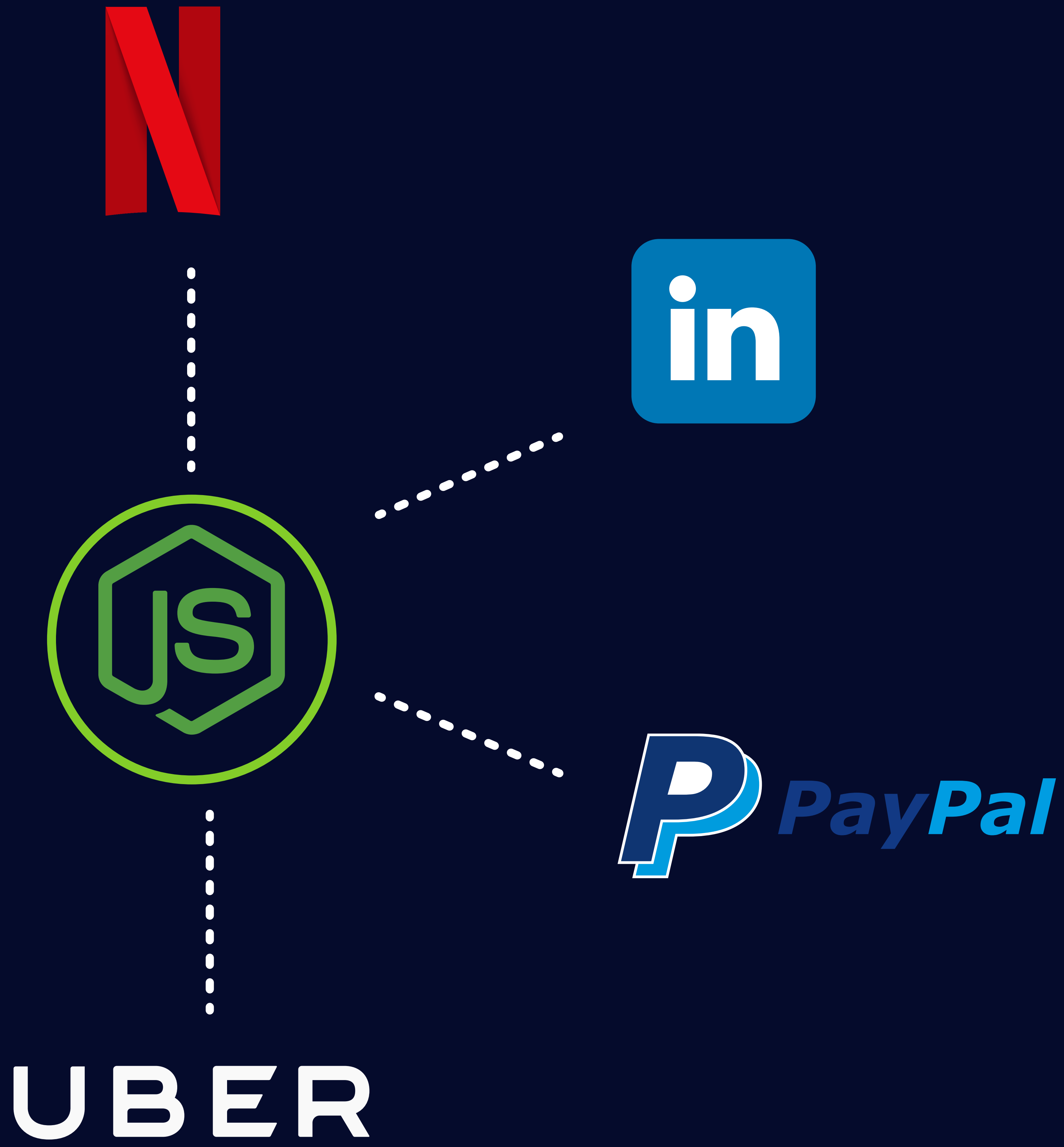
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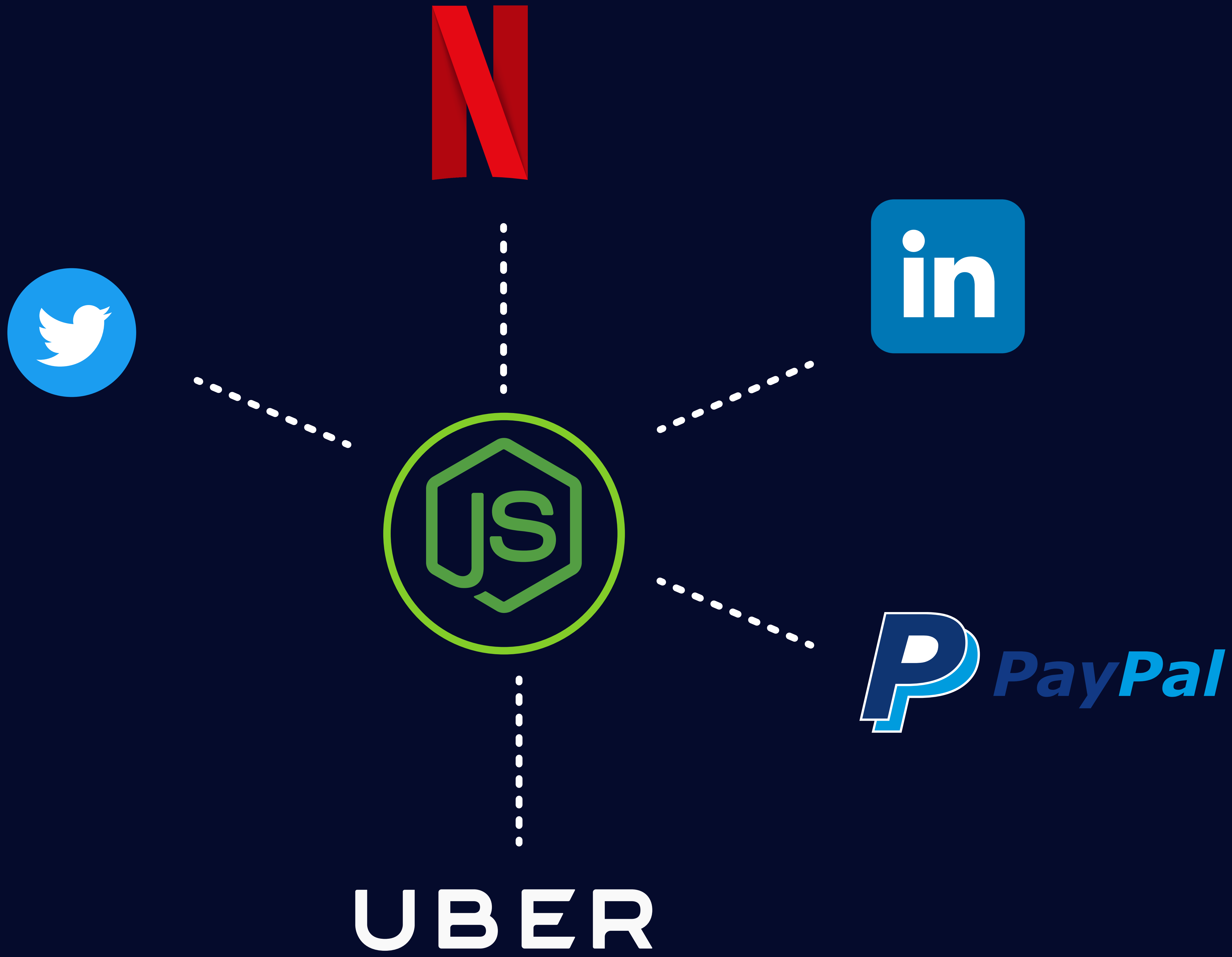
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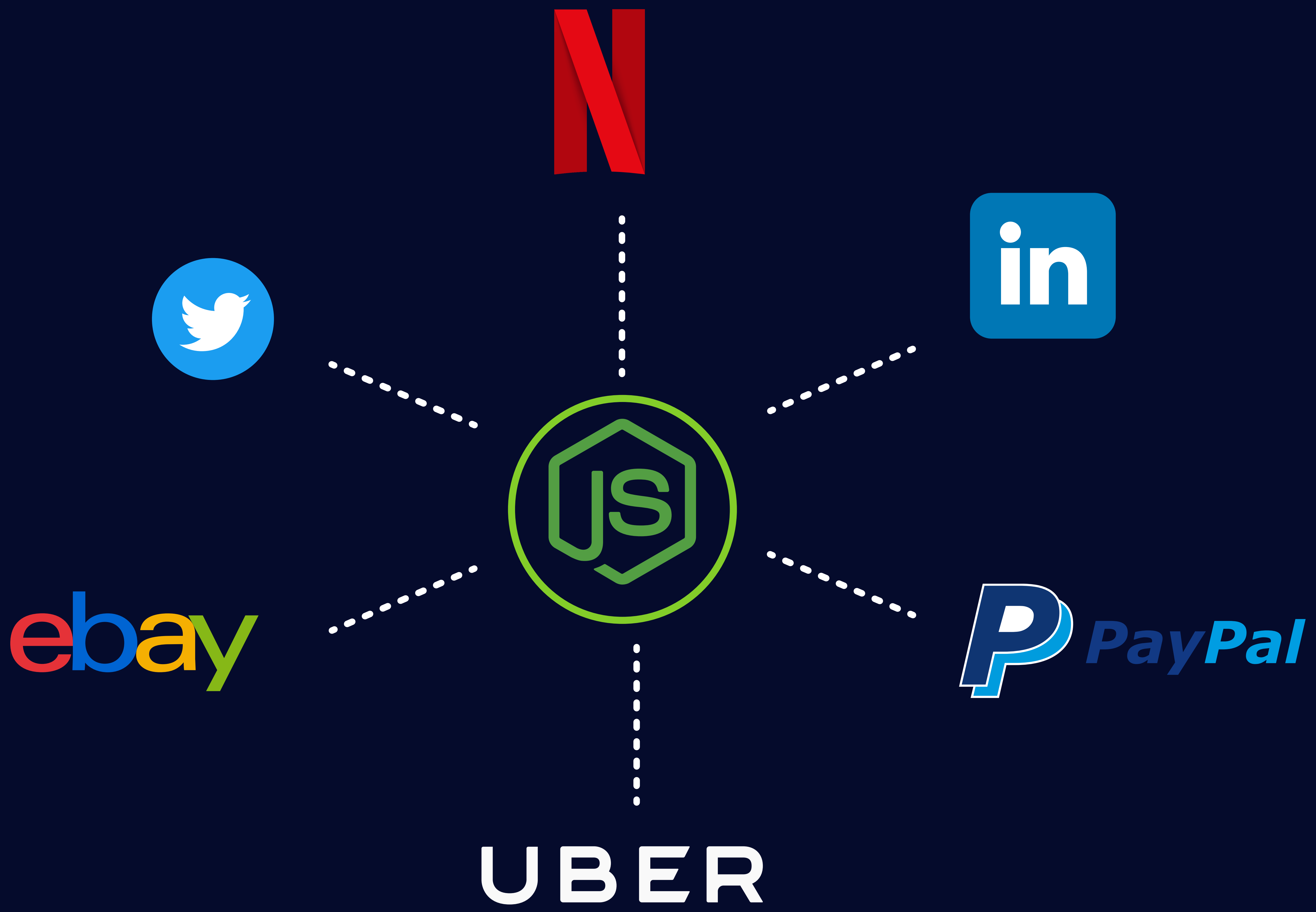
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Install Node JS

REPL

R=Read

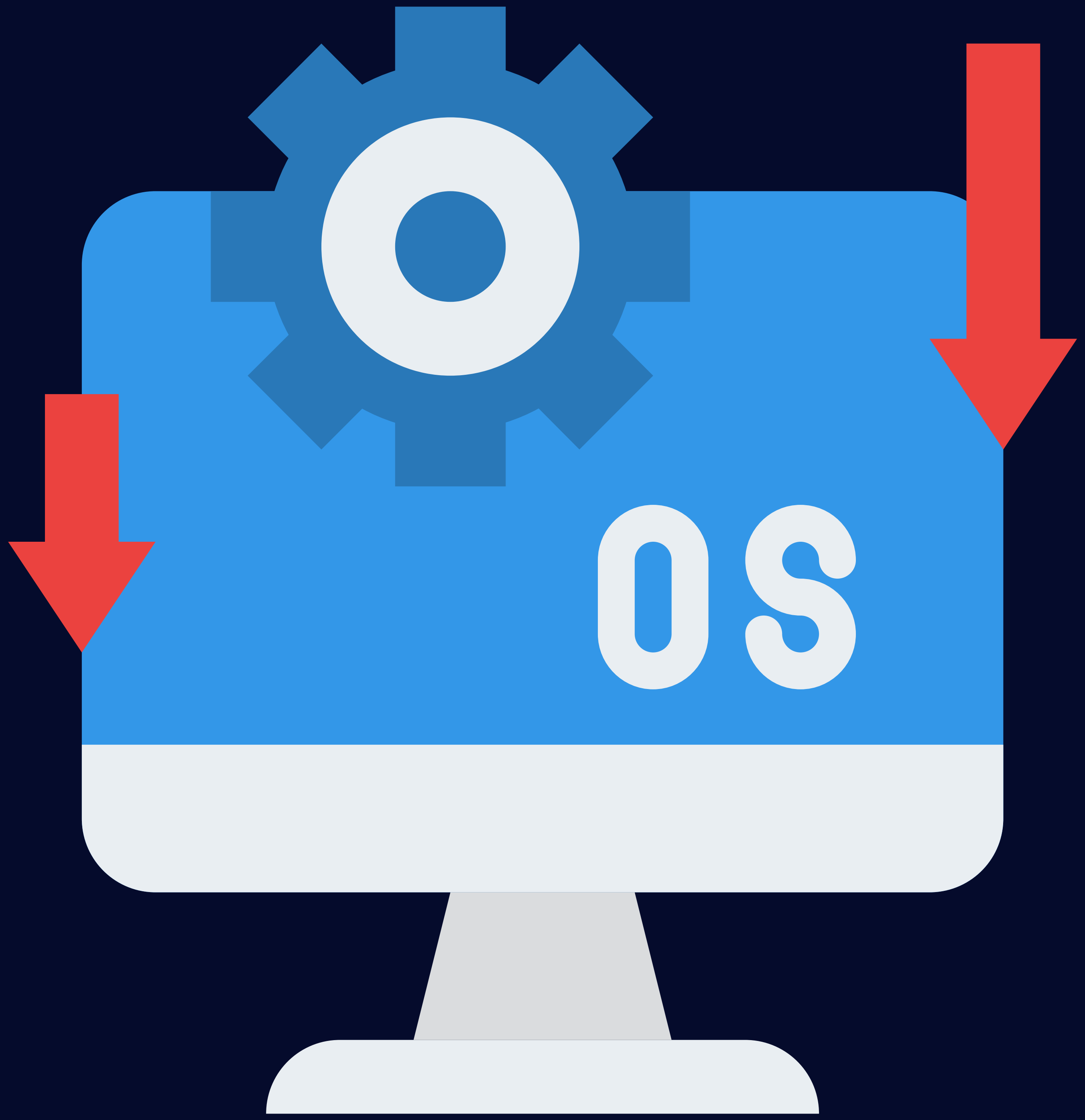
E=Evaluate

P=Print

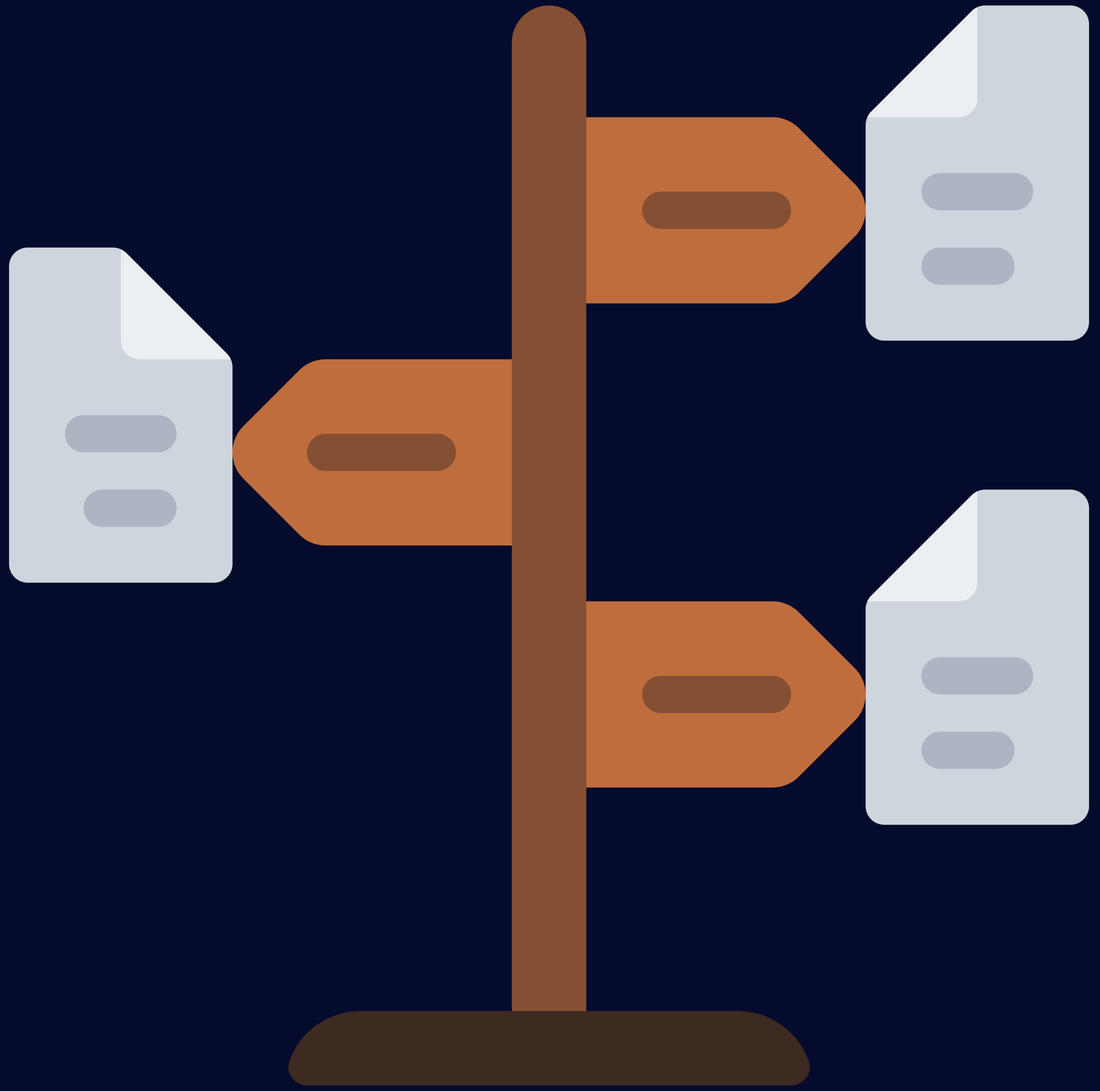
L=Loop

NODE JS MODULES

fs-File System



OS - Operating System



Path - Module