

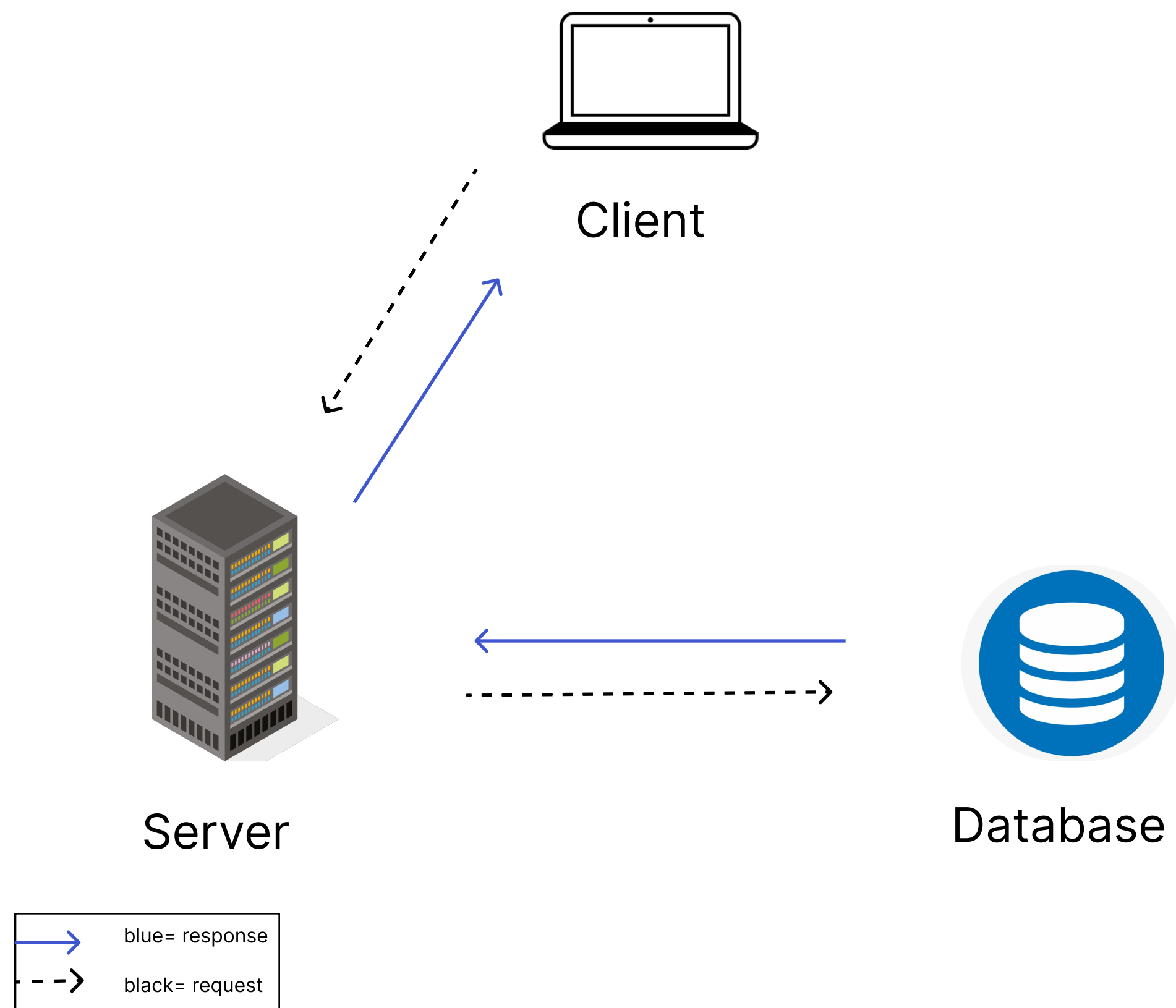
What is MVC?

To put it in simple terms, MVC is a form of separation of concern. It separates code into the three main parts: Model, View, and Controller. This makes it stress-free to work on different parts with a team of other engineers, without impacting the other parts of the code. Additionally, you don't have to repeat yourself. It improves organization.

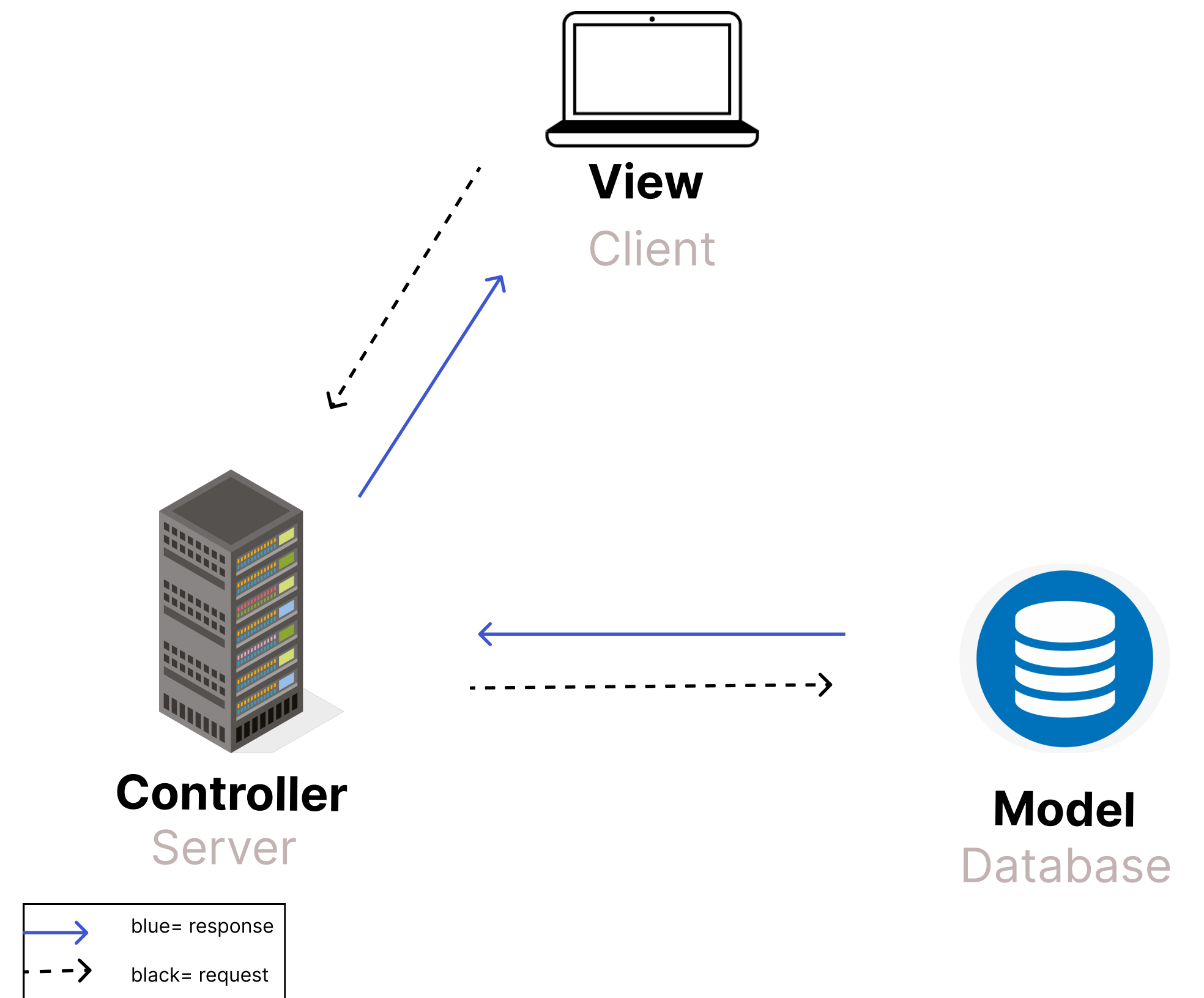
What does MVC stand for?

- M-Model
- V-View
- C-Controller

A normal workflow



A normal workflow with MVC

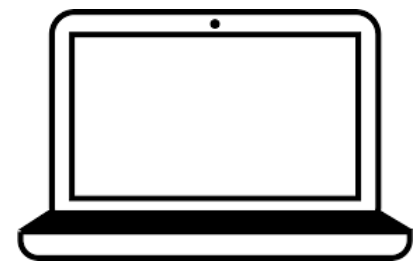
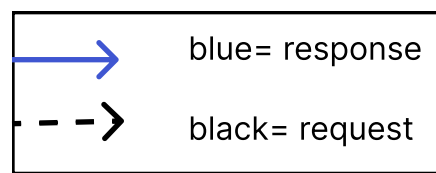


What is Mongoose?

A JS object-oriented programming library that creates a connection between MongoDB and Node.js

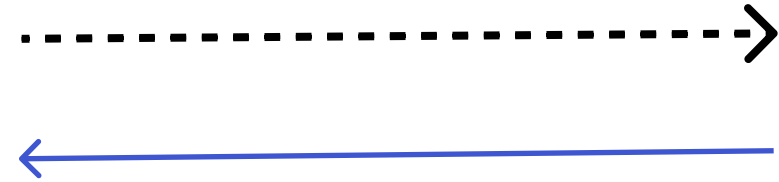
What is a schema?

A schema is the blueprint of a database which describes how the data may relate to other tables or other data models.



View

Client



Controller

Server



Model

Database

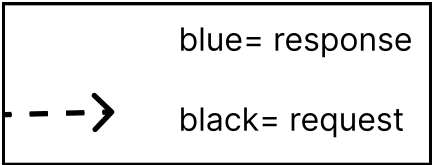
Everything the user will only see:

- HTML
- CSS

Interacts only with the Controller..only listens, to the Controller(doesnt talk back)

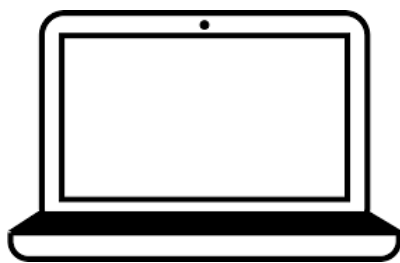
- Really is in charge
- Processes all requests.
- Is the **middleman** of processing everything.
- Takes a request from the View(client) processes request, talks to Model(Database) if need be. Gets info. from Model and then sends it back to the Client(view).
- Does not talk to the DB directly, only to the Model which communicates to the DB.

- **Connected to the DB.**
- The model talks/ interacts to the DB to pull info from the DB to hand it over to the Controller.
- Can add/retrieve items from DB
- Only speaks to the Controller, never directly to the View



User

The view then compiles the HTML and responds back to the user, or in some other forms sends it back to the Controller who sends it to the User.



View

Client

Sends a request to a server

Data that Controller received can be passed to the view to build the HTML

If DB info is needed Controller contacts the Model

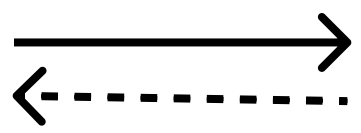
Gets DB info from Model



Model

Database

Model gets info from DB to send back to the Controller



Route

Knows which Controller to send it to



Controller

Server