BITS
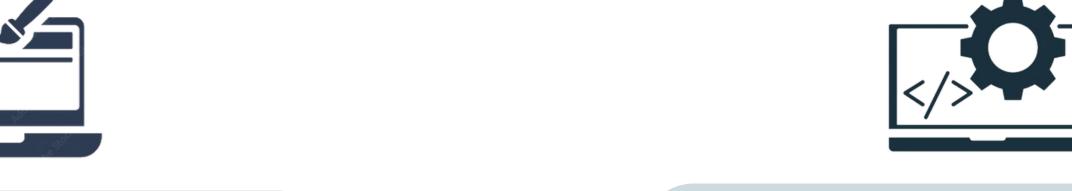# UNPLUGGED

1905064 - SAYEM SHAHAD

1905072 - MAHIR LABIB DIHAN

1905073 - SOUVIK GHOSH

SYSTEM ARCHITECTURE
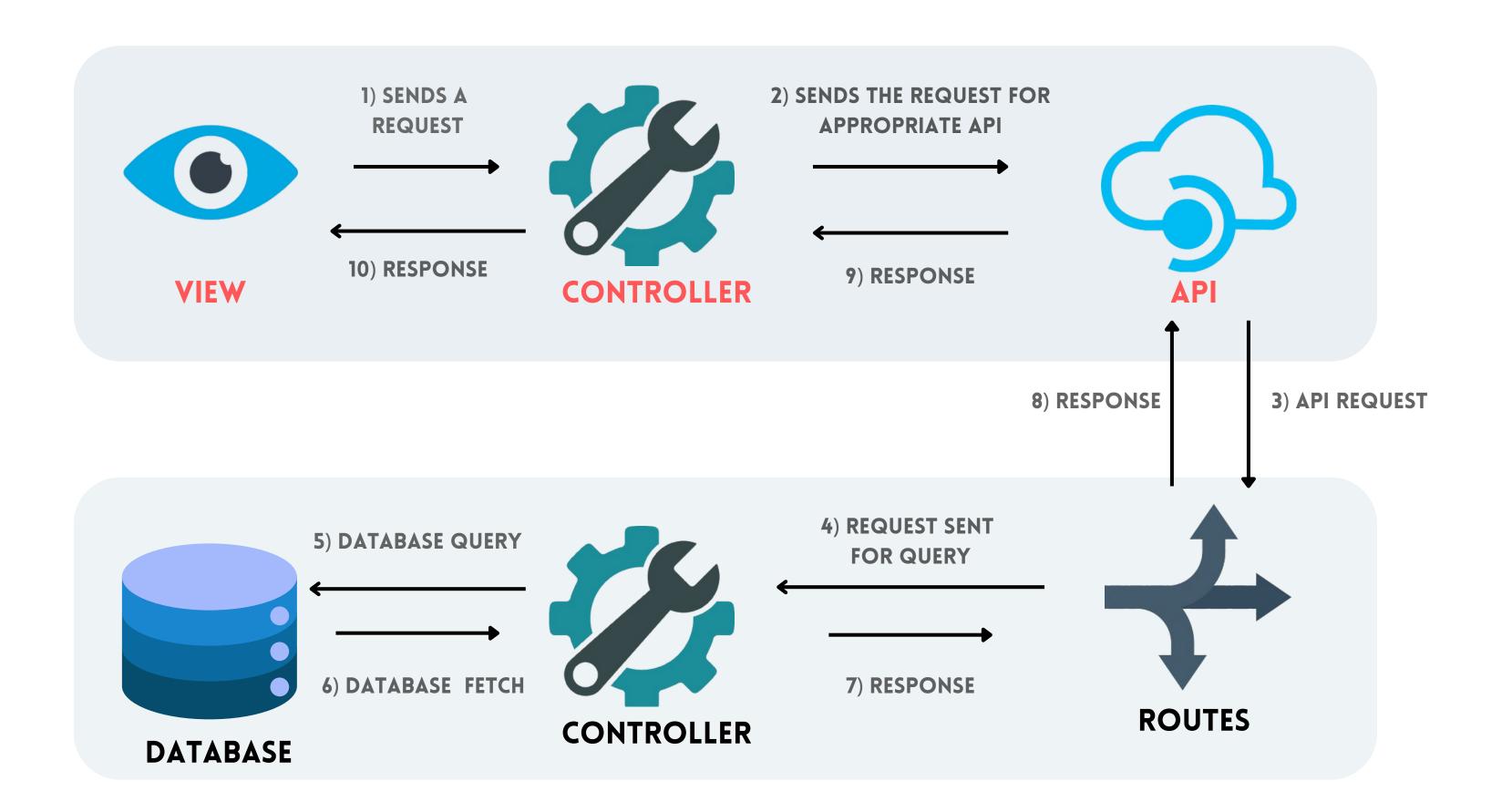
FRONTEND

BACKEND

VIEW

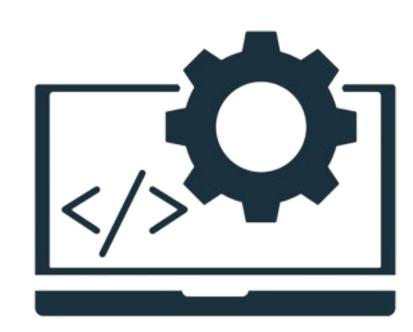1) SENDS A REQUEST

10) RESPONSE

CONTROLLER

2) SENDS THE REQUEST FOR APPROPRIATE API

9) RESPONSE

API

8) RESPONSE

3) API REQUEST

DATABASE

5) DATABASE QUERY

6) DATABASE FETCH

CONTROLLER

4) REQUEST SENT FOR QUERY

7) RESPONSE

ROUTES

- **A 3 TIER ARCHITECTURE.**

- **PRESENTATION LAYER:** 👁

  - CONSISTS OF UI COMPONENTS.

- **BUSINESS LOGIC LAYER:** 🔧

  - FRONTEND LOGICS ARE IMPLEMENTED HERE.

  - CALLS FUNCTIONS FROM DATA ACCESS LAYER IN CASE OF DATA NEEDED.

- **DATA ACCESS LAYER:** ☁

  - FETCH DATA WITH API CALLS

OUR FRONTEND

- **ALSO 3 TIER ARCHITECTURE.**

- **ROUTER LAYER:**
  - CONSISTS OF API ROUTES AND RESPONSIBLE TO PARSE THE INCOMING REQUESTS AND SEND IT TO SERVICE LAYER.

- **SERVICE LAYER:**
  - CONSISTS OF BUSINESS LOGICS.
  - COLLECTS DATA FROM MULTIPLE SOURCES USING CALL TO DATA ACCESS LAYER AND PROCESSES IT.
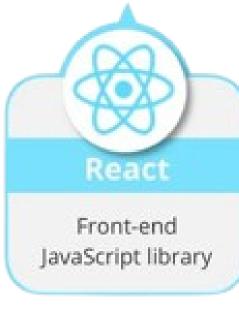
- **DATA ACCESS LAYER:**
  - FETCHES DATA FROM DATABASE

OUR BACKEND

DEVELOPMENT STACK

PERN Stack

PostgreSQL
Object-relational database

Express
Node.js web framework

React
Front-end JavaScript library

Node.js
JavaScript runtime environment

HOSTING

WE ARE USING ....

- **RENDER FOR HOSTING THE WEBSITE** render

- **SUPABASE TO HOST THE DATABASE** supabase

THANK YOU