A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green. They are positioned diagonally, with the blue one partially covering the green one.

# A cloud-native performance monitoring system

Design presentation

# Team Members



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# RISE

- Migrating to cloud-computing
- Needs to monitor performance of machines

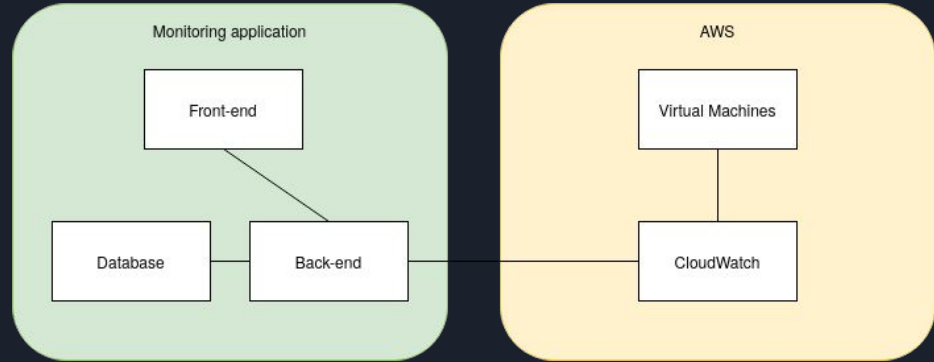
# RI. SE

# System Components

- Front-end
- Back-end
- Database

## External systems

- AWS CloudWatch



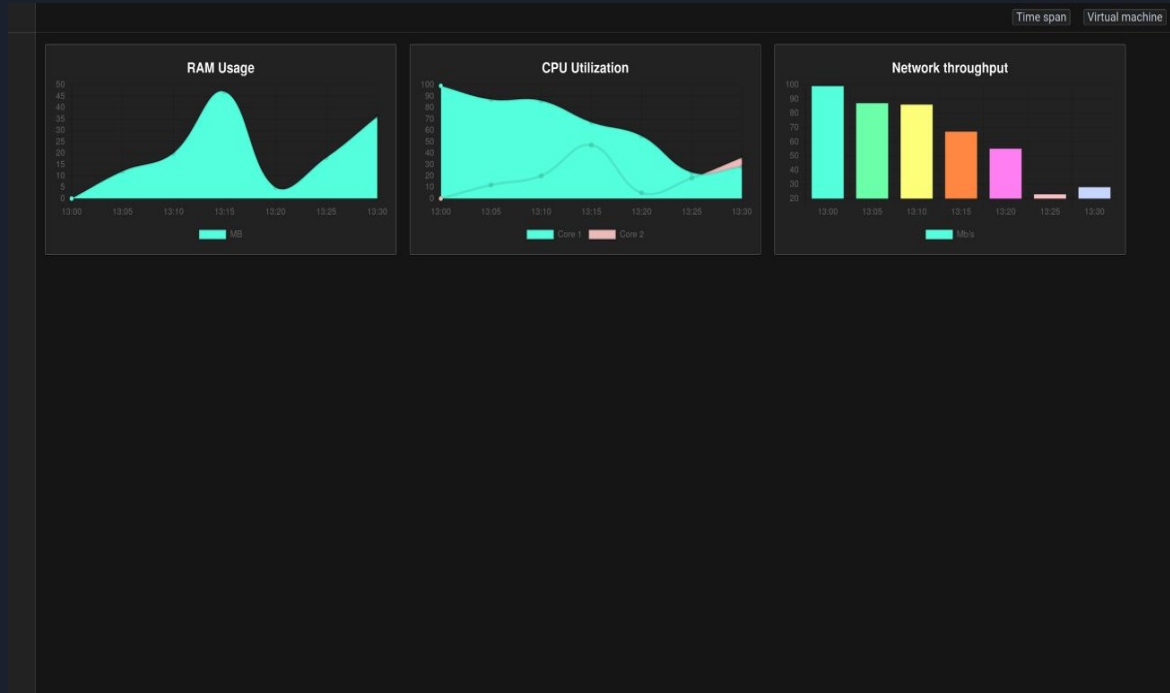


# Front-end

- Visualizes CloudWatch metrics as graphs
- Displays metrics over a specified time span
- React

# Front-end - GUI Structure

- Web pages
- Login page
- Dashboard
- hide/show graphs
- Admin page
- Toggle metrics collection on/off
- Remove users



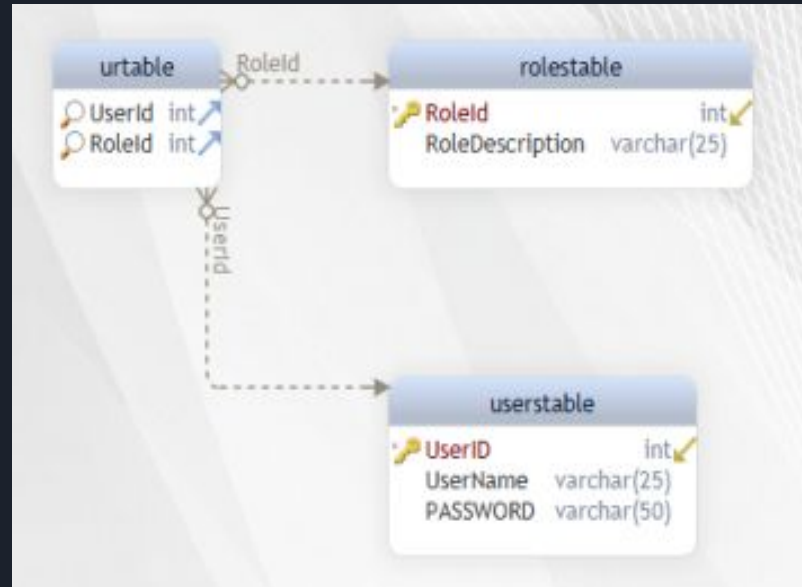


# Back-end

- Handles communication between the components
- Lets front-end talk to CloudWatch and database
- PHP

# Database

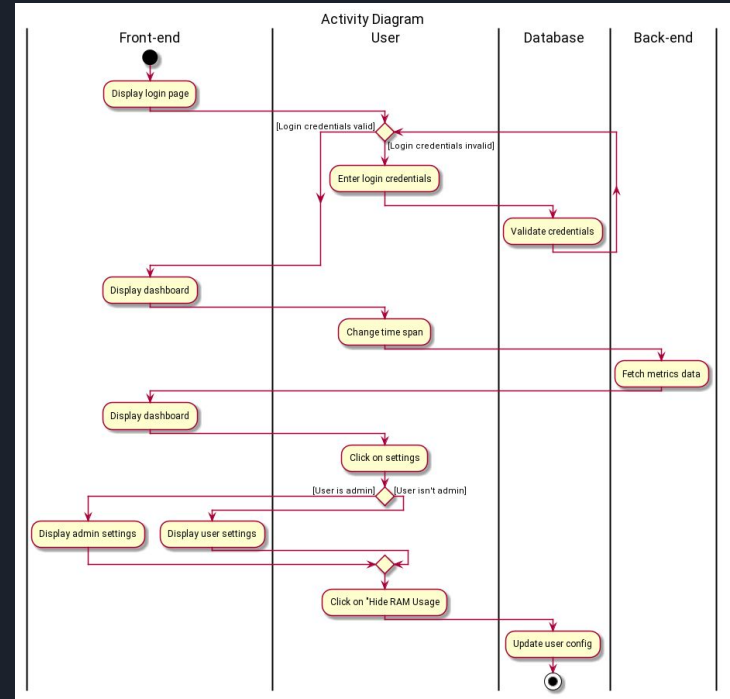
- User credentials
- User configurations
- MariaDB



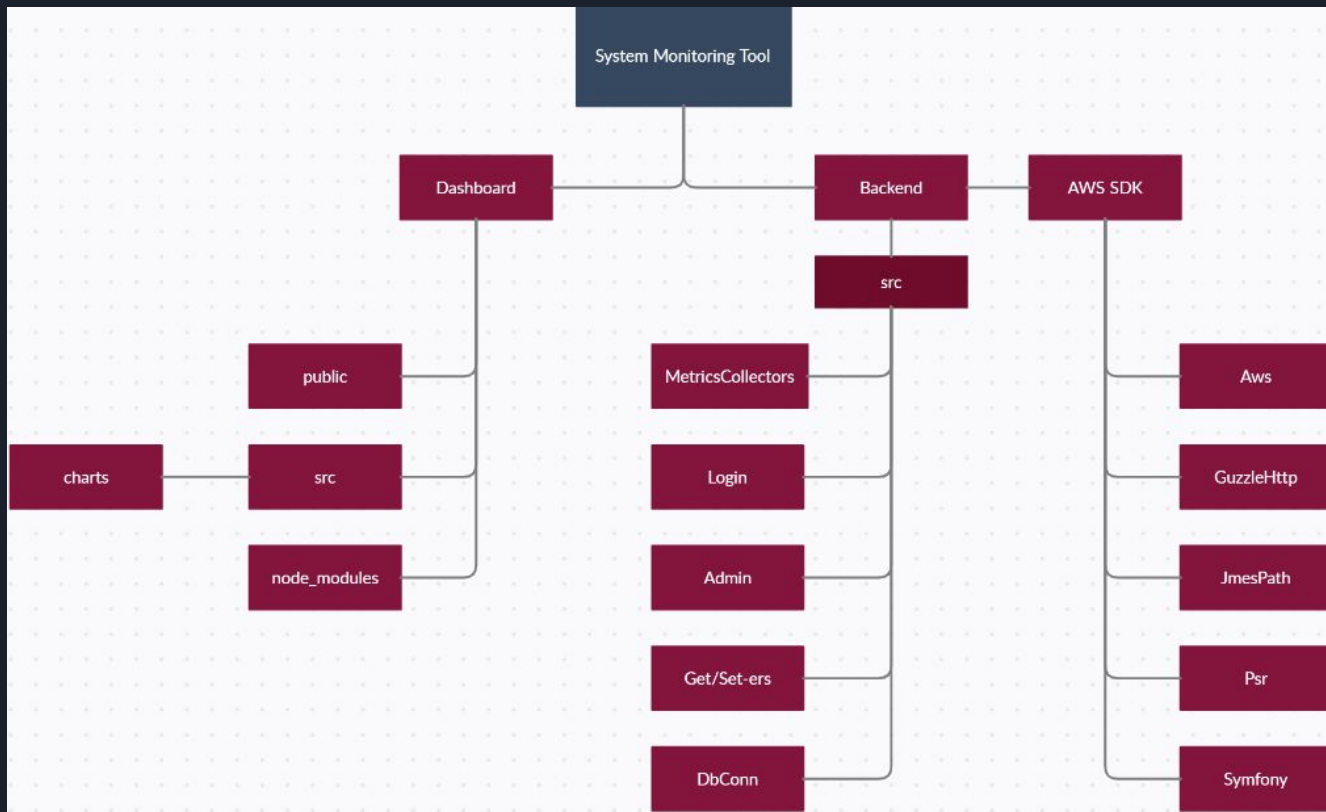


# User Activity Flow

- The user interacts with the application through the website
  - The user can access several graphs
  - The user can choose data
- 
- A logged in user can access the dashboard
  - An admin can manage users and metric collection



# Implementation Structure



- React
- SRC
- PHP
- AWS



# Implementation Structure

- Writing PHP as non-OOP
- Writing it as modular as possible
- Separate PHP files for functions
- Readability in PHP