

# Week-3 Projects

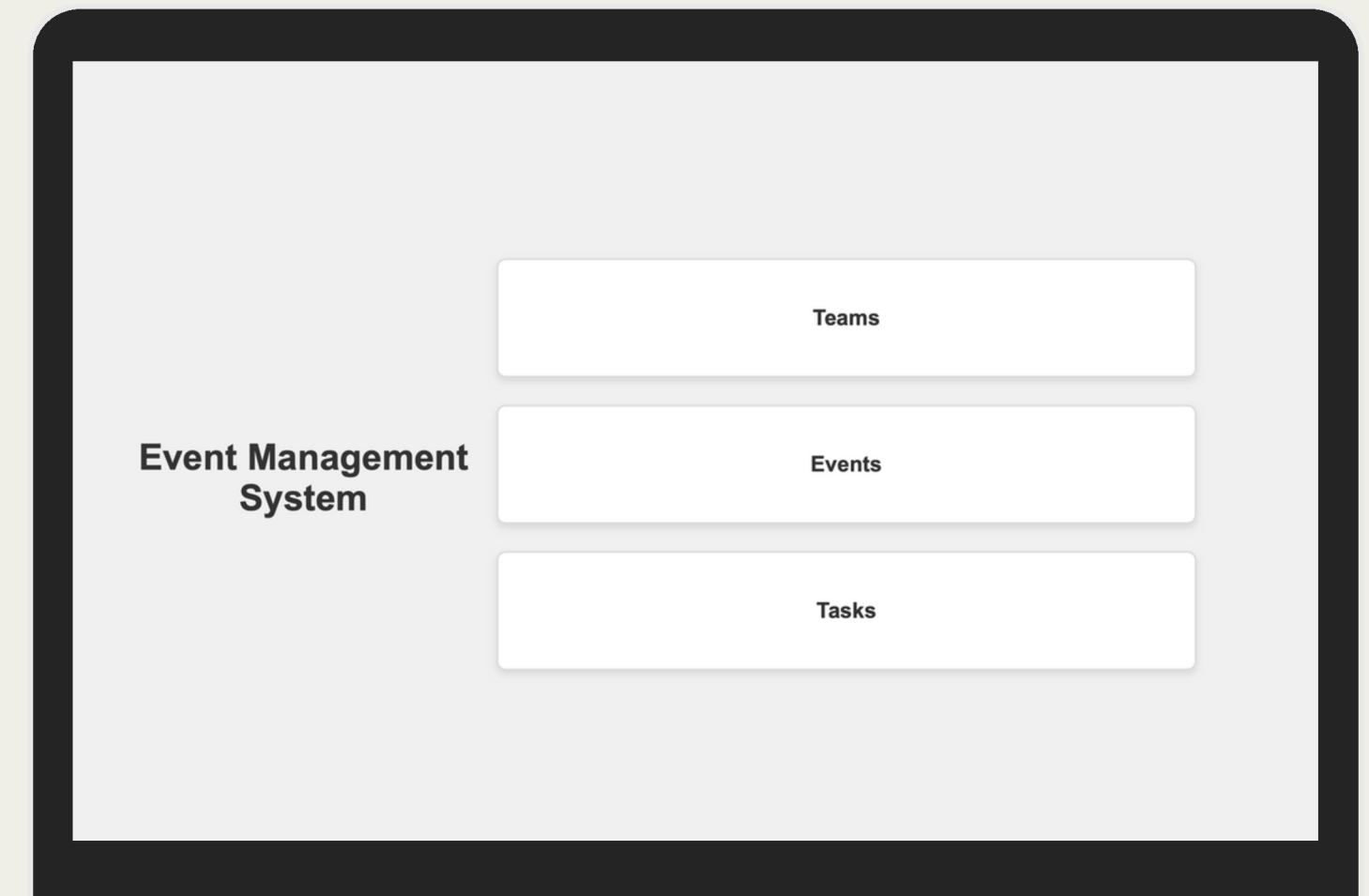
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- EVENT MANAGEMENT SYSTEM
- EQUIPMENT ALLOCATION SYSTEM

# EVENT MANAGEMENT

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- End user is the Event-Manager
- Event Setup and Task Assignment
  - View tasks of each events, teams
  - Add more tasks, update the task progress
- Automated Notifications and Reminders
  - Task creation alert
  - Event day alert, Preparation reminder alert, Progress-checkin alert, Issue Alert - in the Scheduler



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**Play-Application / Mysql/ Kafka System/ Akka  
actors/ Docker deployment**

# EndPoints

GET,POST /events

GET,POST /teams

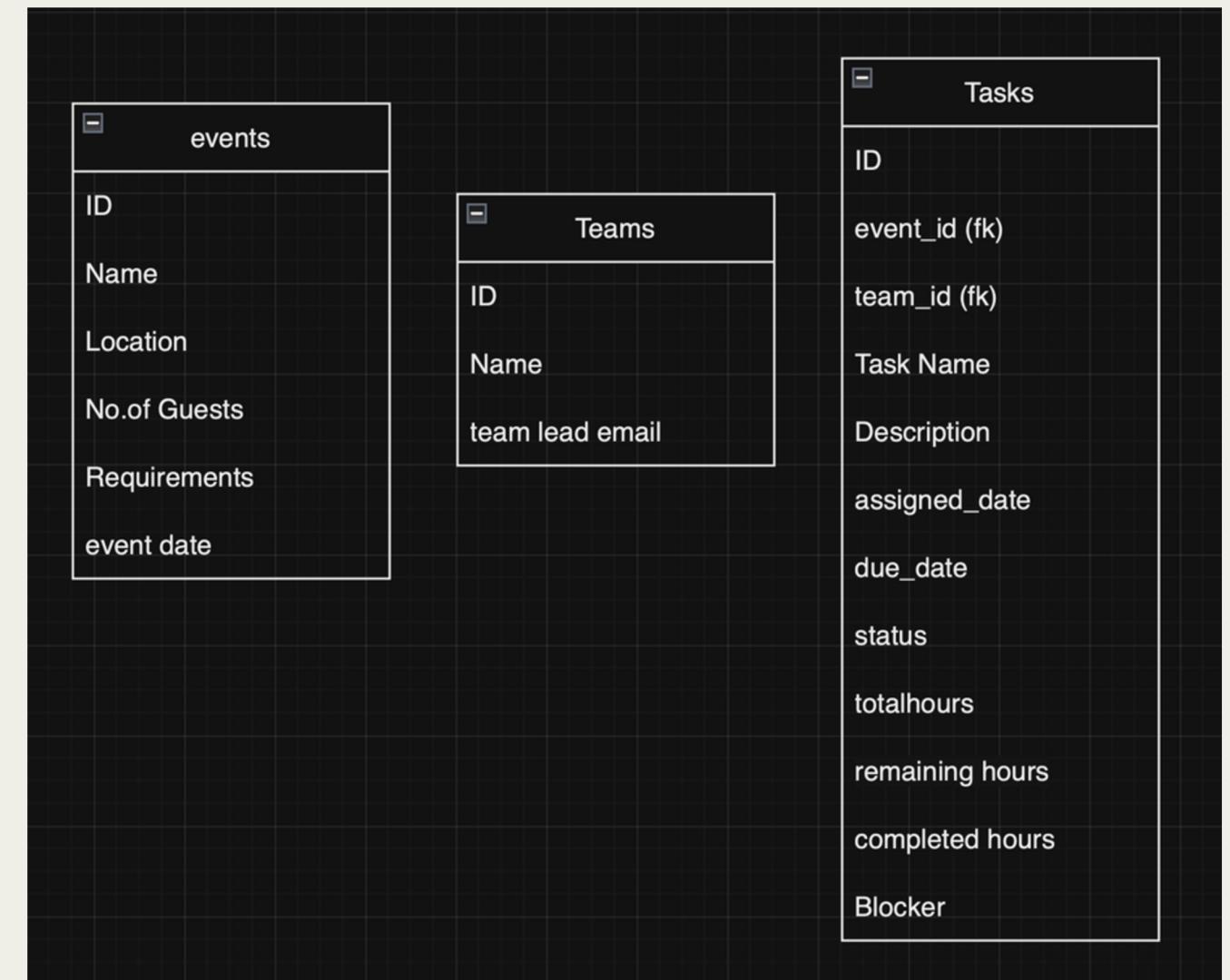
GET,POST /tasks

GET /events/:eventId/tasks - get tasks by events

GET /teams/:teamId/tasks - get tasks by teams

PUT /tasks/:taskId - update tasks

# Database Model



# PAGES

The diagram illustrates a user interface flow across four pages:

- Teams Page:** Shows two teams: "Catering service" and "Decoration team". Each team has a "Team Lead Email" and a "Team tasks" button.
- Events Page:** Shows four events: "Number of Guests: 400", "Cherry Wedding", "cutie Wedding", and another "cutie Wedding". Each event has a "Location", "Number of Guests", "Requirements", and "Event Date". A "Event Tasks" button is present under each event.
- Tasks Page:** Shows a list of tasks for specific events. It includes "food prep" tasks for "Cherry Wedding" and "cutie Wedding", and a "food prep" task for "Number of Guests: 400". Each task has a "Description", "Assigned Date", "Due Date", "Status", and a "Update Task" button.
- Task by Specific Event/Team:** A detailed view of a task for "cutie Wedding". It shows the task description, assigned date (2024-11-14), due date (2024-11-15), status (Pending), and a blocker ("vendor not pick up call"). It also includes an "Add Task" button.

## Teams Page

Get all teams, option to get tasks specific to teams, option to add the tasks

## Events Page

Get all Events, option to get tasks specific to events, option to add events

## Tasks Page

Get all Tasks, Option to add tasks, update the task status, hours completed, issues

## Task by Specific Event/Team

Get tasks by Events, Teams. Update the tasks, add tasks to that particular event or team.

# ALERTS

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## *Task Creation Alert*

This Alert is triggered whenever there is a creation of a new task. The producer would publish the task details to the topic “taskcreation\_alert”

## *Event Day Task Alert*

This Alert is inside a Scheduler, which runs everyday at 12.01 am. When this is triggered all the tasks on the event day are published into the topic “event-day”

## *Issue Alert*

This Alert is inside the Scheduler, which runs everyday at 12.01am. If the field blocker in task is not null it will publish that task into the topic “issue-alert”

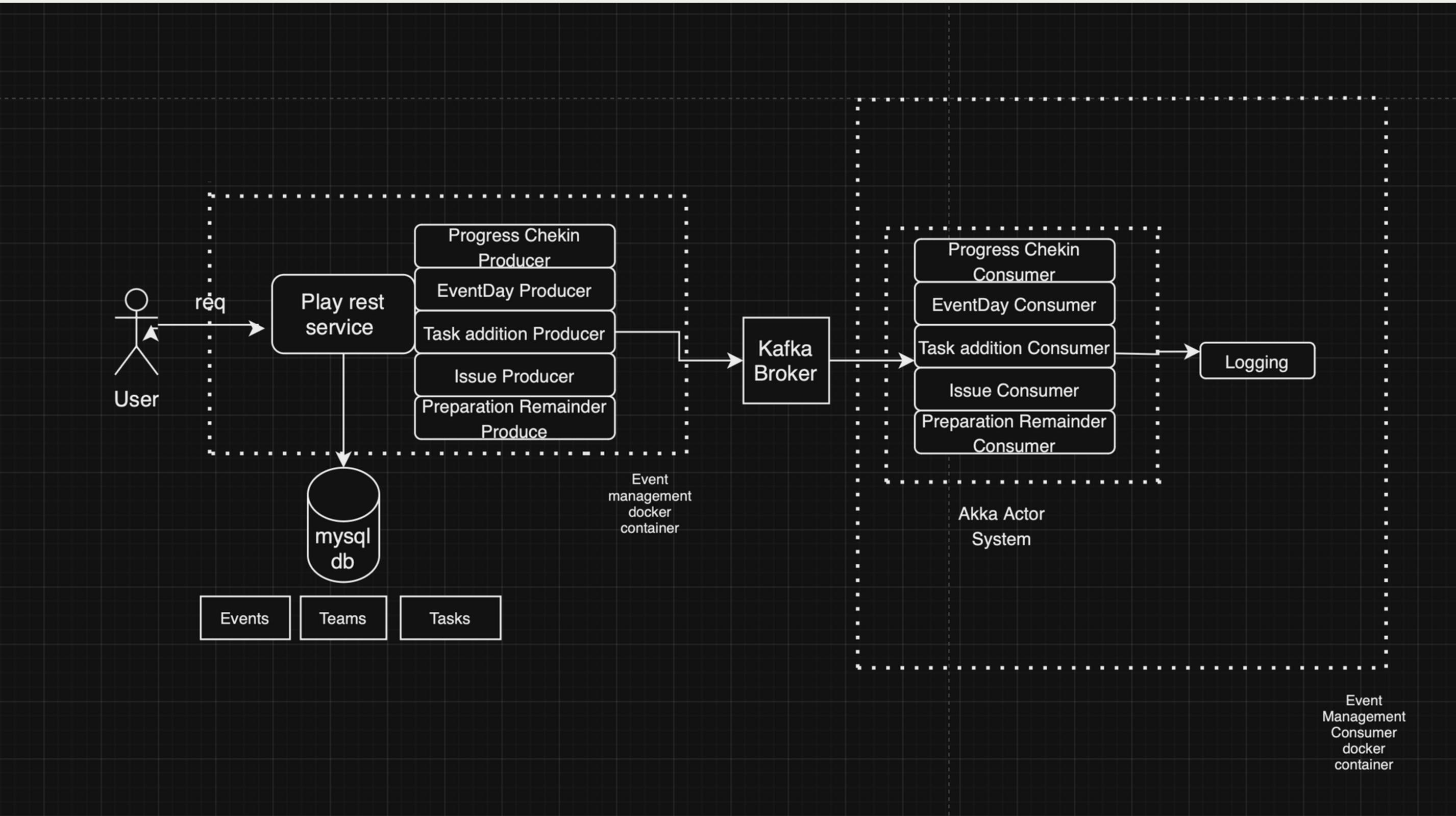
## *Preparation Remainder Alert*

This Alert is inside the Scheduler, runs at 12:01am everyday. If the task status is in progress the task will be published into the topic “reminder”

## *Progress Chekin Alert*

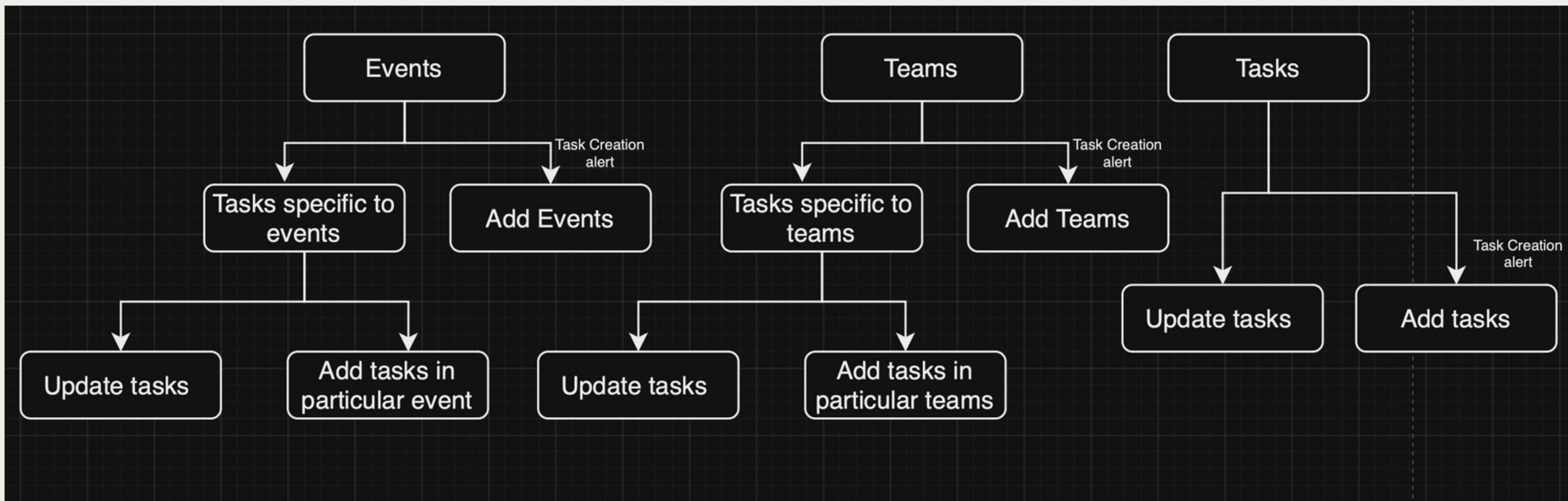
This Alert is inside the scheduler, runs everyday at 12:01am. If the task status is in progress the topic is “progress-check-in”

# SYSTEM ARCHITECTURE



# FLOW OF THE APPLICATION

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# EQUIPMENT ALLOCATION

- End user is the Receptionist
- User, Product , Allocation Request Services
- Automated Notifications and Reminders
  - Inventory Alert
  - Maintenance Alert
  - OverDue Alerts (Scheduler)

**Play REST Service/ Kafka Consumer-  
Producer/ Akka Actor System/ JWT Security/  
Angular Front-End/ Docker Deployment**



# EndPoints

GET,POST, DELETE /users

GET,POST,DELETE /products

GET /allocations

POST /allocation/:equipmentid - Create Allocation based on equipmentID

PUT, DELETE /allocation/:id - Update the allocation incase of return

GET /products/:id - get all equipments in the product type

POST /products/:id - Add equipments in the product category

# Database Model



# PAGES

Inventory

Product	Description	Action
Macbook Air M2 Chip	2022 Apple Macbook Air Laptop with M2 chip: 13.6-inch Liquid Retina Display, 16GB RAM, 256GB SSD Storage, Backlit Keyboard, 1080p FaceTime HD Camera. Works with iPhone and iPad; Midnight	STOCK →
Macbook Air M3 Chip	2024 Macbook Air: 13-inch, Apple M3 chip with 8-core CPU and 8-core GPU, 16GB Unified Memory, 256GB - Midnight.	STOCK →
Dell Inspiron 5430	13th Gen Laptop, Intel i7-1355U/16GB LPDDR5/512GB SSD/14.0 (35.56Cms) FHD+ Comfort View/Backlit KB + FPR/Windows 11+MSO 21/McAfee 15 Months/Platinum Silver/Thunderbolt 4.0/1.59Kgs	STOCK →
Lenovo ThinkPad E14	E14 Intel Core i7 13th Gen 14 WUXGA IPS 300 Nits Thin and Light Laptop (16GB RAM/1TB SSD/Windows 11 Home/Backlit Keyboard/FPR/Black/TY Onsite/1.41 kg), 21JKS13J00	STOCK →
boAt Rockerz 450	Bluetooth On Ear Headphones with Mic, Up to 15 Hours Playback, 40MM Drivers, Padded Ear Cushions, Integrated Controls and Dual Modes(Luscious Black)	STOCK →
Sony WH-CH520	Wireless On-Ear Bluetooth Headphones with Mic, Up to 50 Hours Playtime, DSEE Upscale, Multipoint Connectivity/Dual Pairing,Voice Assistant App Support for Mobile Phones (Blue)	STOCK →

## Product Page

Get all products the inventory,  
Option to get all the equipments  
in each product category.

## Equipment Page

Get all Equipment in the respective  
product category, Option to  
allocate the given equipment.

Stock (Macbook Air M2 Chip)

Equipment	Status	Action
NC123QWE	1 Availability: AVAILABLE Condition: GOOD	ALLOCATE
NC124QWE	2 Availability: ASSIGNED Condition: GOOD	ALLOCATE
NC125QWE	3 Availability: NOTAVAILABLE Condition: MAINTENANCE	ALLOCATE

Stock (Macbook Air M2 Chip)

Equipment	Status	Action
NC123QWE	1 Availability: AVAILABLE Condition: GOOD	ALLOCATE
NC124QWE	2 Availability: ASSIGNED Condition: GOOD	ALLOCATE
NC125QWE	3 Availability: NOTAVAILABLE Condition: MAINTENANCE	ALLOCATE

Raise Request

User: Select User ▾

Purpose: November 2024 ▾

Expected Return Date: 19

Time: 12:12

SUMMIT

Allocation Requests

Request	Purpose	Request Date	Expected Return Date	User
1	Allocated as part of onboarding	2024-11-15	2024-12-15	Saketh
2	Special request for speaker, approved by manager	2024-11-15	2024-12-15	Saketh
3	Special request for SSD, approved by manager	2024-11-15	2024-12-15	Srija

## Allocation Requests Page

Get all allocations, option to return  
the allocation.

## Allocation Request Raising for Equipment

Creating a Allocation Request for a  
particular equipment, filling in the  
nessecary fields.

# ALERTS

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## *Inventory Alert*

This Alert is triggered when any item is returned . The producer would publish the equipment details to the topic “inventory\_alerts”

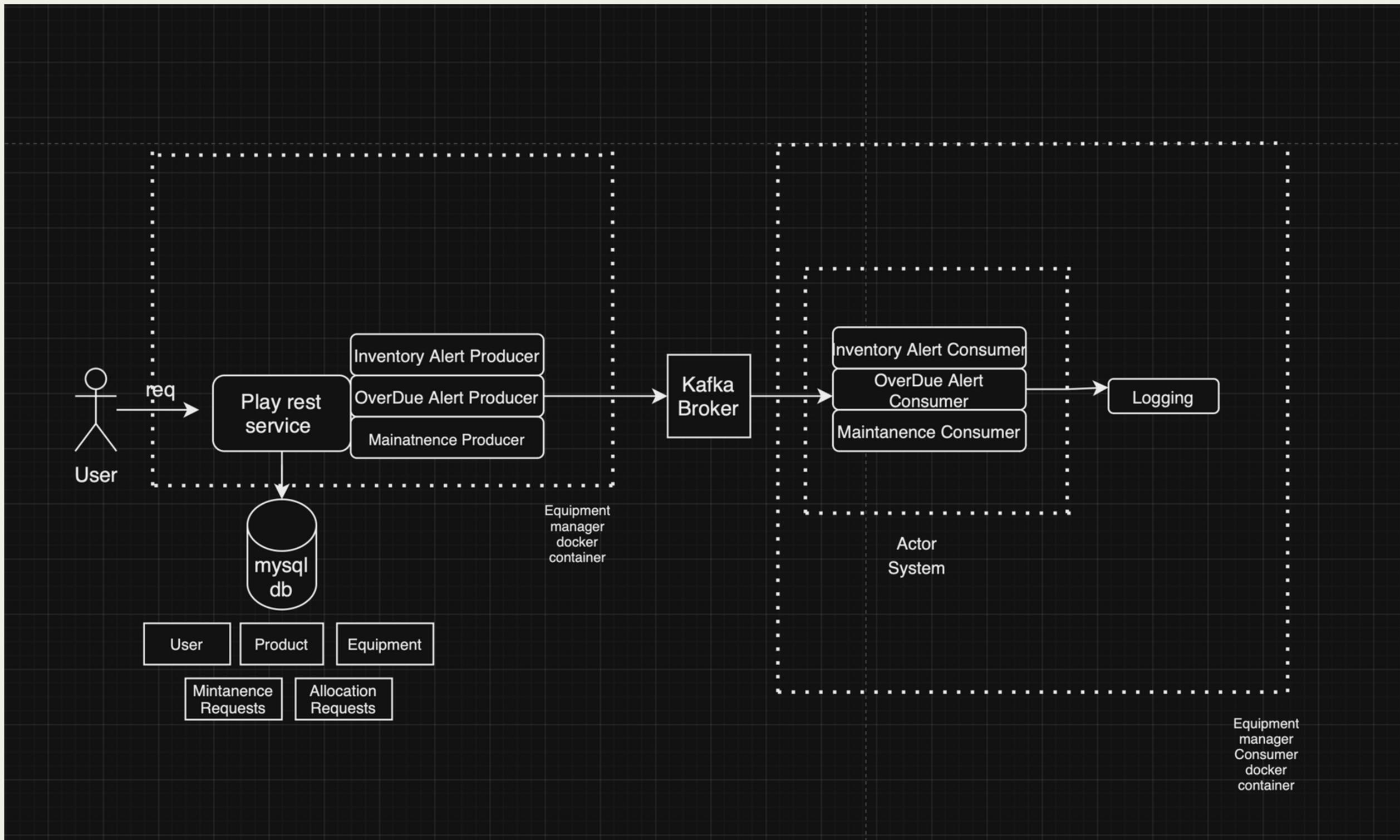
## *Maintanance Alert*

This Alert is triggered when any item is returned and marked as maintance. it would publish to the topic “alert”

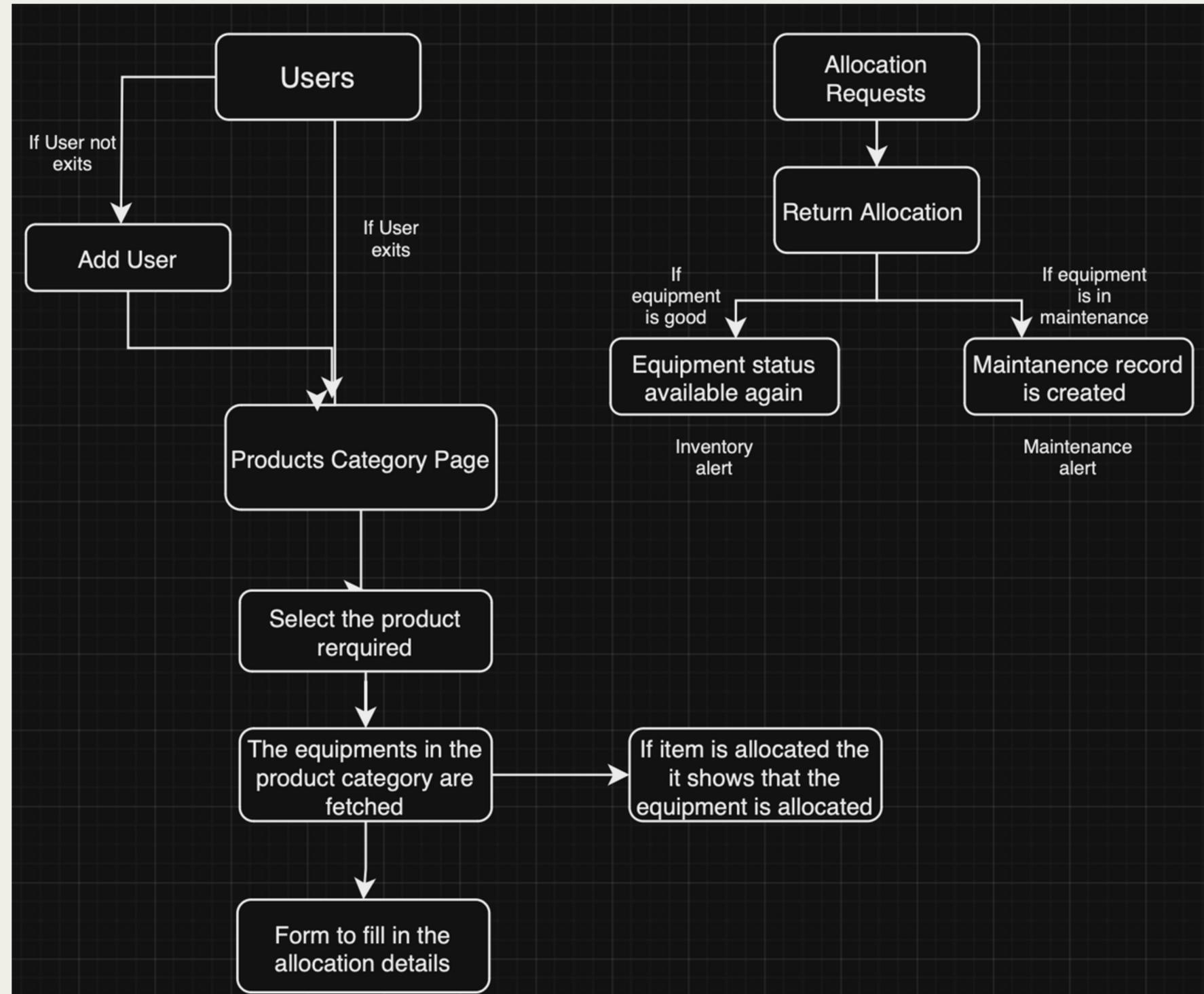
## *Overdue Alert*

This alert is inside the Scheduler, triggered when the expected return day is beyond the current day. Will be publishing into a topic “reminder”

# SYSTEM ARCHITECTURE



# FLOW OF THE APPLICATION



# Thank you!

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