Idea:

1)database: Mongo DB:

-User Schema: Store user credentials and profile information.

-Video Schema: Store video metadata, such as title, description, URL.

Why: Flexible schema design, horizontal scalability, and ease of integration with Java.

2) user service:

Implement registration and login using Spring Security with basic authentication.

3) Media Service:

- -Implement endpoints for uploading and retrieving videos.
- -Upload: Endpoint to upload videos and store metadata in MongoDB.
- -Retrieve: Endpoint to fetch video metadata and serve video files.
- 3) **Kafka**: Set up Kafka topics for video uploads and user actions.
- -Producer: Publish events like video upload to Kafka topics.
- -Consumer: Consume events for processing tasks.

Why Kafka: High throughput, fault-tolerance, and real-time event streaming capabilities.

- 4) **RabbitMQ**: Use RabbitMQ for real-time notifications and task queuing.
- -Publish: Send notifications to RabbitMQ queues.
- -Consume: Process notifications and deliver them to users.

Why RabbitMQ: Robust messaging broker with excellent support for real-time messaging and task queues.

5) **Redis**:

-Use Redis to cache frequently accessed data, such as video metadata and user sessions.

Why Redis: In-memory data store with high performance and ease of use for caching.

6) frontend: react

Application:

