

# Minor Project

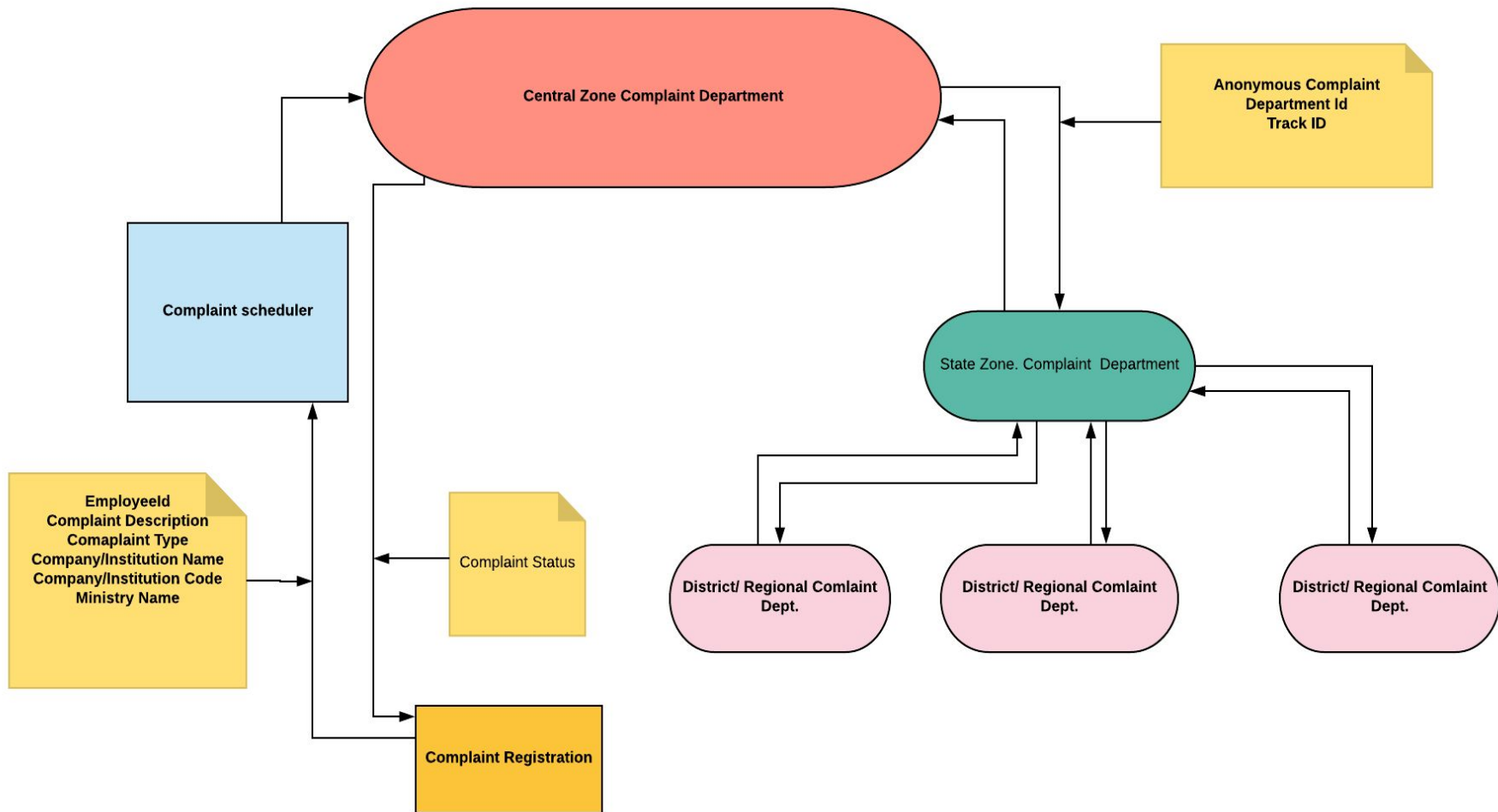
**Compliance system using  
sentiment analysis**

# Abstract

The compliance based system for 44 labour laws is schedule using **sentiment analysis**. Complaint scheduler uses sentiment analysis to set priority to the complaints having negative response ratio. The high priority complaint will be resolved first. The central authority will received the complaint first then transfers the high priority complaint to the lower departments and complaints are anonymous to the lower departments for labour security. Central authority can also track the complaints. Data flow diagrams are explained in the coming slides.

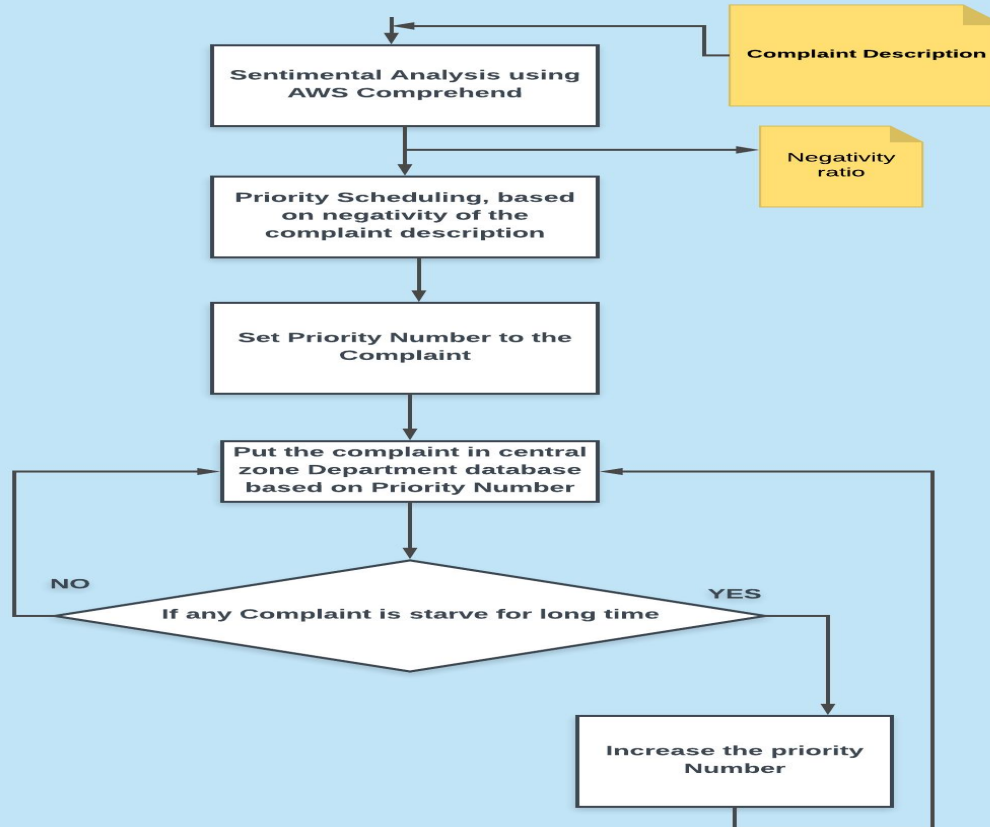
## Technology Stack

- AWS Comprehend for sentiment analysis.
- AWS dynamoDB for Database.
- AWS Lambda Function for serverless application.
- AWS Cognito Pool for user authentication.



# Complaints Scheduling

## Complaint scheduler



# Show Stopper

- Complaints are schedule with **sentiment analysis** using **AWS Comprehend**
- Different user type admin panel.
  - **Central Dept. Admin Panel**
  - **State Dept. Admin Panel**
  - **District Dept. Admin Panel**
- **Master-Slave** architecture are used.
- Anonymous complaints are processed to the lower Departments for labour **security**.
- Use of **serverless framework** (AWS lambda function) to reduce the load of the server