E Letter Case-Study:

Abstract: Application will have react web based user interface which shall provide following features:

- Registration Form for new employee addition with proper validations error messages in case any

- Login screen for HR Manager

- Manager must able to load pateint data from database/ Excel/Form

- Manager must able to login and add parent data in "DischargeSheet" template

- Manager able to preview all the "Discharge Sheet", he can apprive or reject

-All approved "DischargeSheet" must be created PDF format with parentnameandmonthyear pattern

--PDF should be password protected

--daywise PDF should be created in folder with "currentDate"

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- Save the project in Git, use Docker and Kubernetes too and deploy the same on AWS too

Front-end- react

BackEnd: (Microservices / RestWebservice)

ManagerService

PatentService

EurekaService

Modules:

Front-end Module

Back-end Module

Technical specification:

- Front-end to be developed using latest version of React.js with proper validation error messages

- Multiple Front-end components to show all backend database activities.

- Backend to be developed using Spring Boot, Data JPA or Hibernate

- There must be at least 2 different micro-services

- Pateint Services

- ManagerService

- Proper usage of exception handling wherever required

- Communication will be done through JSON between React/ SpringBoot / MySQL

- Postman for verification of all messages

Screenshots:

Testing

Jenkins

Postman

Code coverage

Outputscreens

Technology Stack:

- Java

- Spring Boot

- Spring JPA/REST/Exception Handling

- Hibernate for Validations

- TypeScript

- React

- MySQL

- PostMan

- Deployment and Build Creation using Git/Docker/Kubernetes/Jenkins/AWS /SonarQube