Final Project: Interview Registration system

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Abstract- The interview reservation system will allow companies and candidates to agree upon an interview date and time. The system will enable candidates and the organization to communicate availability. The candidate can then select the time for the interview after receiving proposed dates and times from a scheduling provider. Users can view appointments in their calendars by integrating the system with Calendar. Anyone can interact with the system to identify and suggest a different date or time if they need to change the appointment's planned time or date. Both parties have the right to cancel interviews, and they are free to give a reason. The system will send notifications through email. Additionally, reporting will be given so that parties can have a complete picture of their interviews.

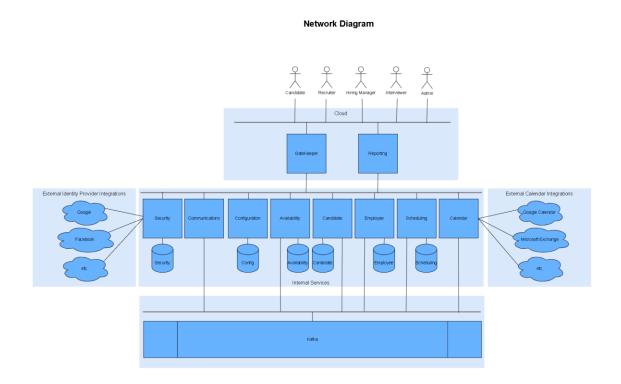
Objectives: Interview Request, Interview Confirmation, communications, company, candidate, scheduling, calendar integration, alerting, change (cancel/change date), reporting, and authentication and authorization

Technologies Used:

- Web Development
 - Language: Python
 - Web Framework: Flask
 - Authentication Mechanism: JWT Token
- Data Development
 - ORM: SQLAlchemy
 - Database: Postgresql
 - Service Integration: Kafka
- DevOps
 - Container Creation: Docker
 - Container Registry: DockerHub
 - Service Orchestration: Kubernetes
 - Cloud Platform: Okteto
 - Source Control: Git
 - Source Control Repository: Github
 - Build and Deployment Tool: Github Actions

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Part 2: Network Flows



Process Flows:

Here is the GitHub link where the process flows for our project.

https://github.com/hishaam19/CSC5991/blob/main/Documentation/ProcessFlows.pdf

Part 3: Project Outcomes

Allowing companies and candidates to agree upon an interview.

Allowing the company and candidates to share their availability.

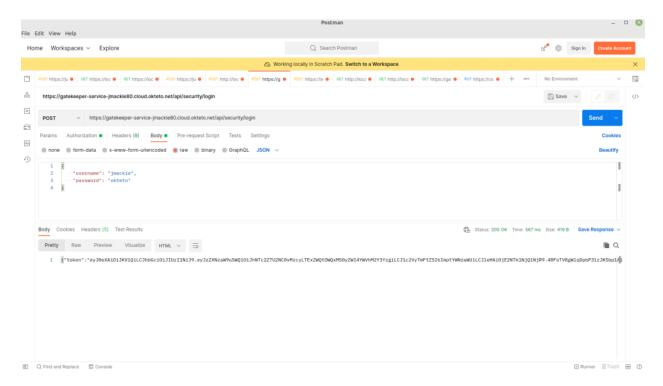
Allowing integration with Google Calendar.

Canceling or editing an interview.

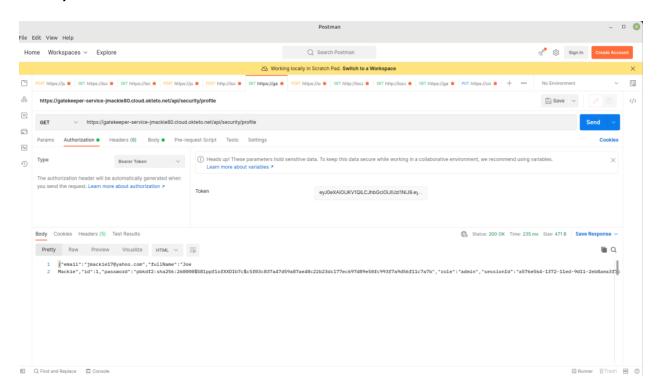
Reporting the interviews scheduled.

Part 4: Screenshot of our outcomes:

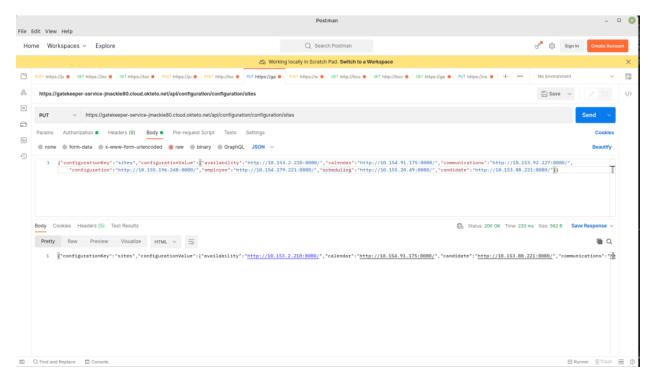
Security - Login

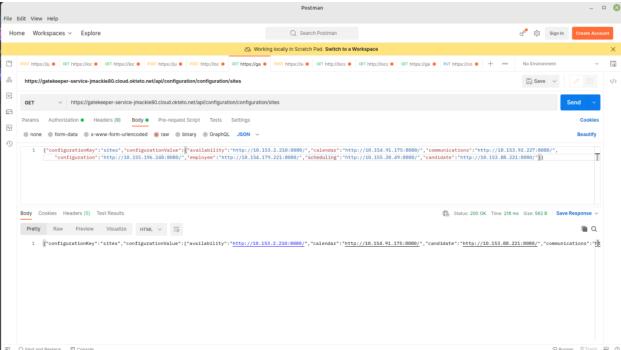


Security - Profile

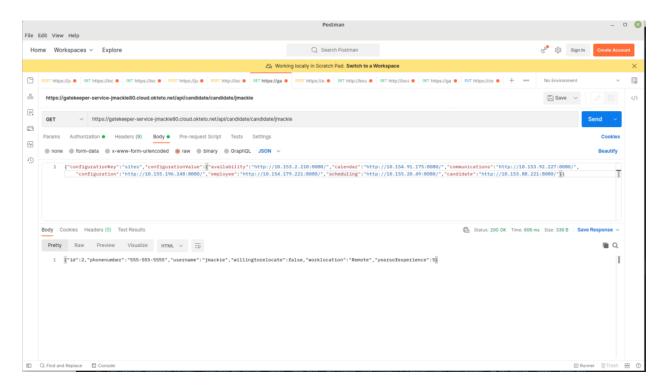


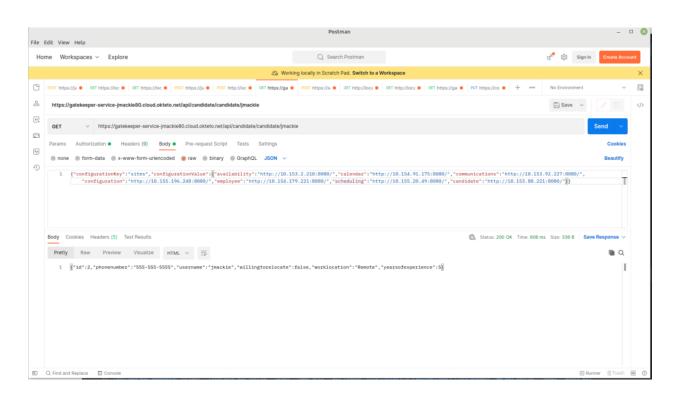
Security - Configuration



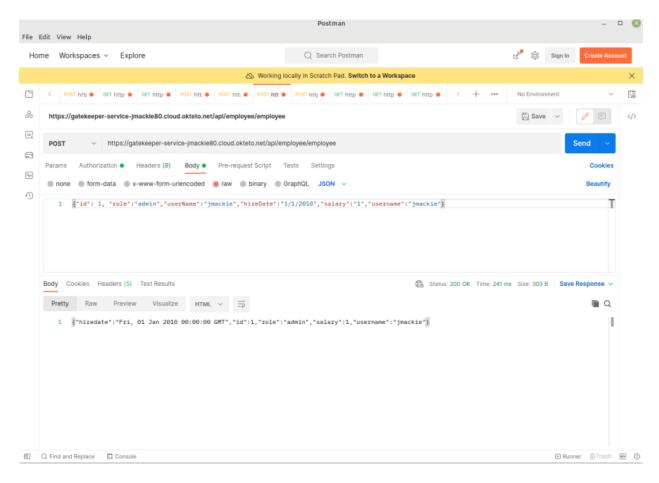


Candidate





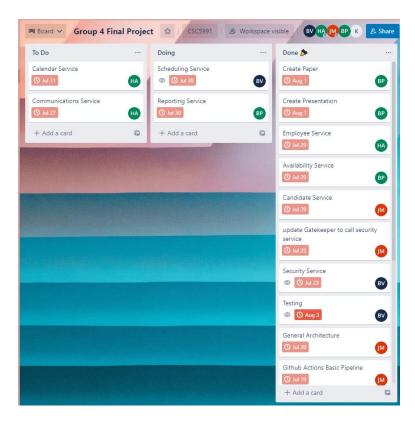
Employee

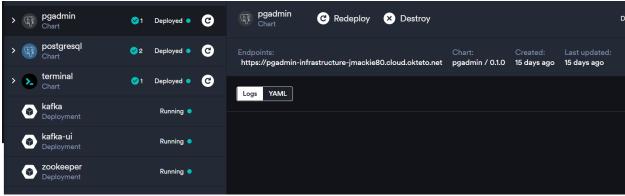


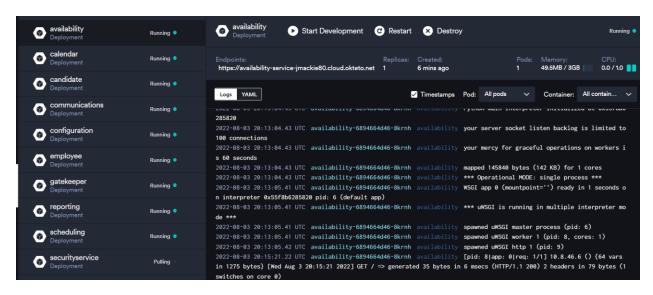
Part 5: Goals achieved and remaining goals:

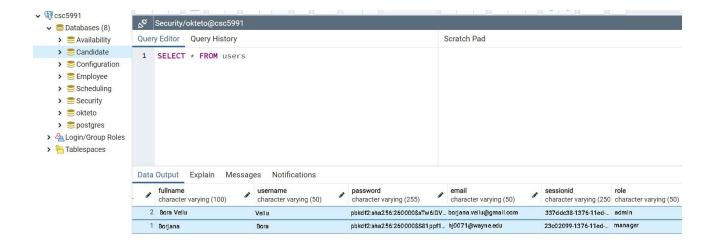
Increasing Productivity:

- Improving processes to produce the best results possible given the inputs.
- Determine who has the bandwidth for this project by examining the present workflow and outstanding tasks.
- Establish due dates for each activity.
- Frequently, checked in to make sure the project is on schedule.



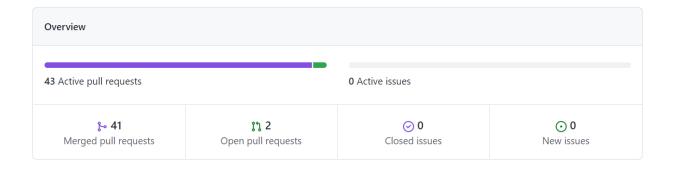






Implementing services like sending notifications through email, reporting service is one of our remaining goals. Due to difficulties in implementing those, we nevertheless provide these services. The targets we've already accomplished include putting up PostgreSQL, Kafka, Kubernetes, Oketo, DockerHub, and creating most of the services that we had in the proposal.

Part 6: Team member contributions and roles





Team Role:

Joseph - Team Lad, set up all the services, candidate service, configuration service, Process flows, network diagram.

Bharath - Reporting and Availability service, Paper, Powerpoint.

Hishaam - Communication service, Employee service and Calendar service

Borjana - Security Service (authentication and authorization), Scheduling service, Paper, and Testing

Part 7: GitHub, Trello and container registry address

https://trello.com/b/8ts8WKw6/group-4-final-project

https://kafka-ui-service-infrastructure-jmackie80.cloud.okteto.net/

https://pgadmin-infrastructure-jmackie80.cloud.okteto.net/

https://github.com/hishaam19/CSC5991