

# Hotel Bookings Analysis Status Report

## Group – 18

Jeyadev L

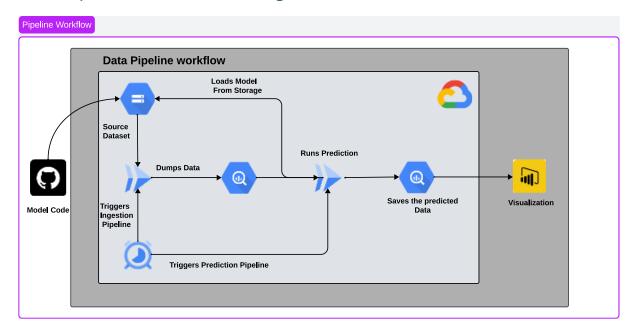
Gayathiri R

Bratati R

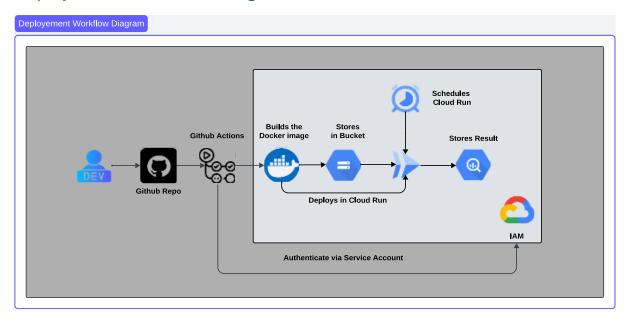
Devasree R

Sharone V

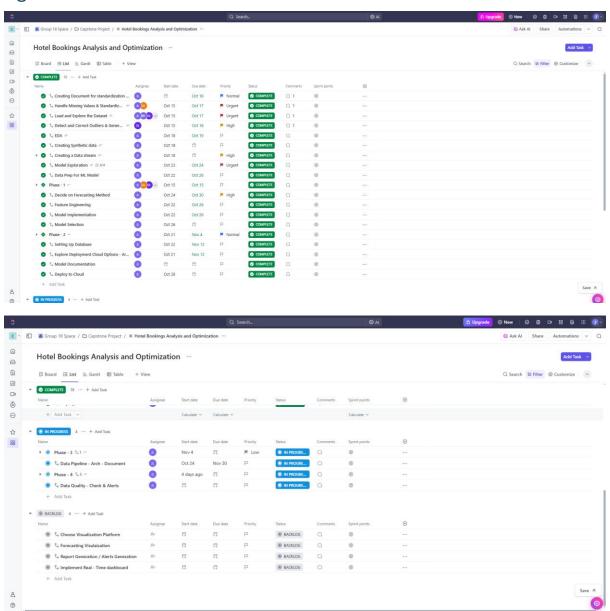
# Data Pipeline Architecture Diagram



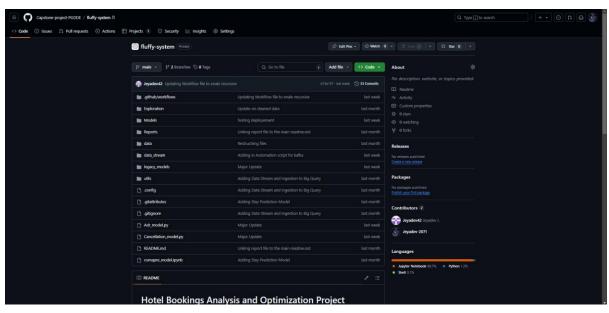
## Deployment Architecture Diagram

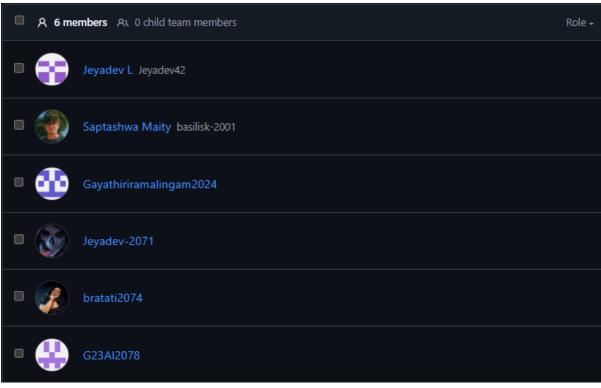


## **Agile Board**



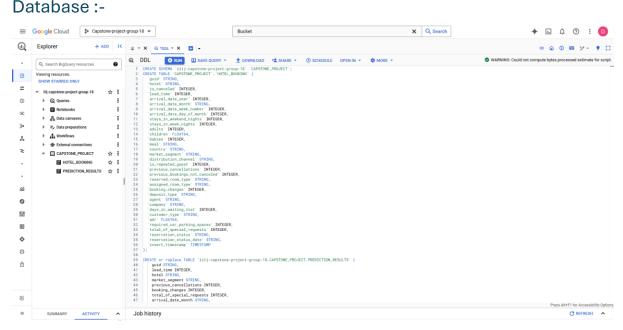
## GitHub Setup



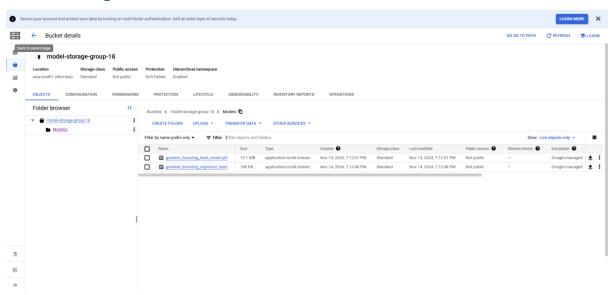


## **Cloud Setup**

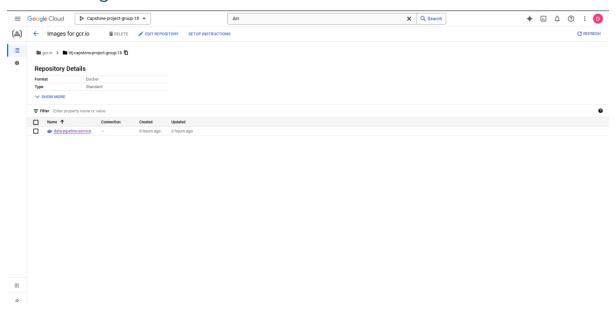
#### Database:-



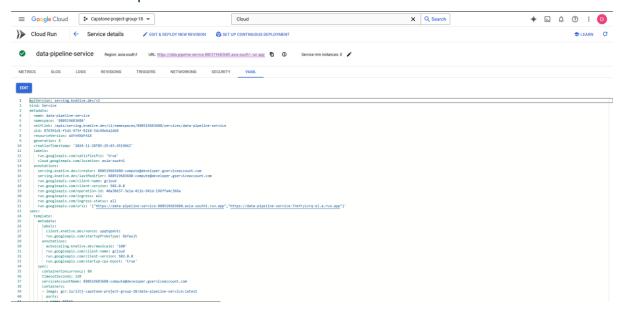
### Model Storage Cloud



### Docker Image



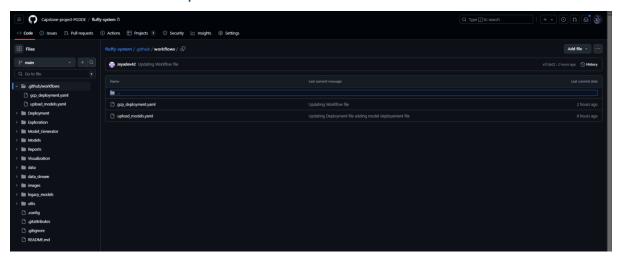
### Cloud Run Setup



#### Scheduler



### GitHub workflow set up



```
name: Upload Models to GCS
on:
  push:
   paths:
      - 'Models/**' # Trigger the workflow only when files in the Models folder change
 PROJECT_ID: ${{ secrets.GCP_PROJECT_ID }} # Google Cloud Project ID
  BUCKET_NAME: ${{ secrets.GCS_BUCKET_NAME }} # Google Cloud Storage bucket name
  MODELS_PATH: Models/ # Path to the models folder
  upload-models:
    runs-on: ubuntu-latest
    steps:
     # Step 1: Checkout the code
     - name: Checkout code
       uses: actions/checkout@v3
     - name: Authenticate with Google Cloud
       uses: google-github-actions/auth@v1
       with:
         credentials_json: ${{ secrets.GCP_SERVICE_ACCOUNT_KEY }}
     - name: Configure Google Cloud SDK
         gcloud config set project $PROJECT_ID
      - name: Upload Models to GCS
       run:
         for file in \{git diff --name-only --diff-filter=AM HEAD~1 \mid grep "^<math>\{MODELS\_PATH\}"\}; do
           echo "Uploading $file to GCS bucket $BUCKET_NAME"
           gsutil cp "$file" "gs://$BUCKET_NAME/$file"
```

```
name: Build and Deploy to Cloud Run
      branches:
- main
        - 'Models/**'
- 'Deployment'
env:
   PROJECT_ID: ${{ secrets.GCP_PROJECT_ID }}
  SERVICE_NAME: data-pipeline-service
REGION: asia-south1
jobs:
  build-and-deploy:
    runs-on: ubuntu-latest
     steps:
    # Step 1: Checkout repository
    - name: Checkout code
    uses: actions/checkout@v3
       # Step 2: Authenticate with Google Cloud
- name: Authenticate with Google Cloud
uses: google-github-actions/auth@v1
with:
               credentials_json: ${{ secrets.GCP_SERVICE_ACCOUNT_KEY }}
         - name: Configure Docker for GCP
run: gcloud auth configure-docker
       # Step 4: Debug file paths (optional)
- name: Debug Files
run: ls -R
         - name: Build Docker Image
               docker build -t gcr.io/$PROJECT_ID/$SERVICE_NAME:latest -f Deployment/Dockerfile .
        - name: Push Docker Image
run: docker push gcr.io/$PROJECT_ID/$SERVICE_NAME:latest
        # Step 7: Deploy to Cloud Run
- name: Deploy to Cloud Run
          run: |
gcloud run deploy $SERVICE_NAME \
               --image gcr.io/$PROJECT_ID/$SERVICE_NAME:latest \
--region $REGION \
                 --platform managed \
--allow-unauthenticated
```

## PowerBI Report

