



Opportunity Management Application

Rohit Michael Gonsalves

Under the Mentorship of:

Mr. Rahul Soni (Java Backend)

And

Mr. Pratik Anand (Angular Frontend)

Objective



While using this application, a user must be able to:

- Authorise himself with his organizational Mail Id via Google.
- View Previously posted Opportunities.
- Add new Opportunity/Job postings.
- Restricted Edit Existing Job Postings.
- View Previous versions of Edited Job Postings
- Delete Job Postings.
- View Trends on the Active Job Postings.

Tech Stack



→ Frontend:

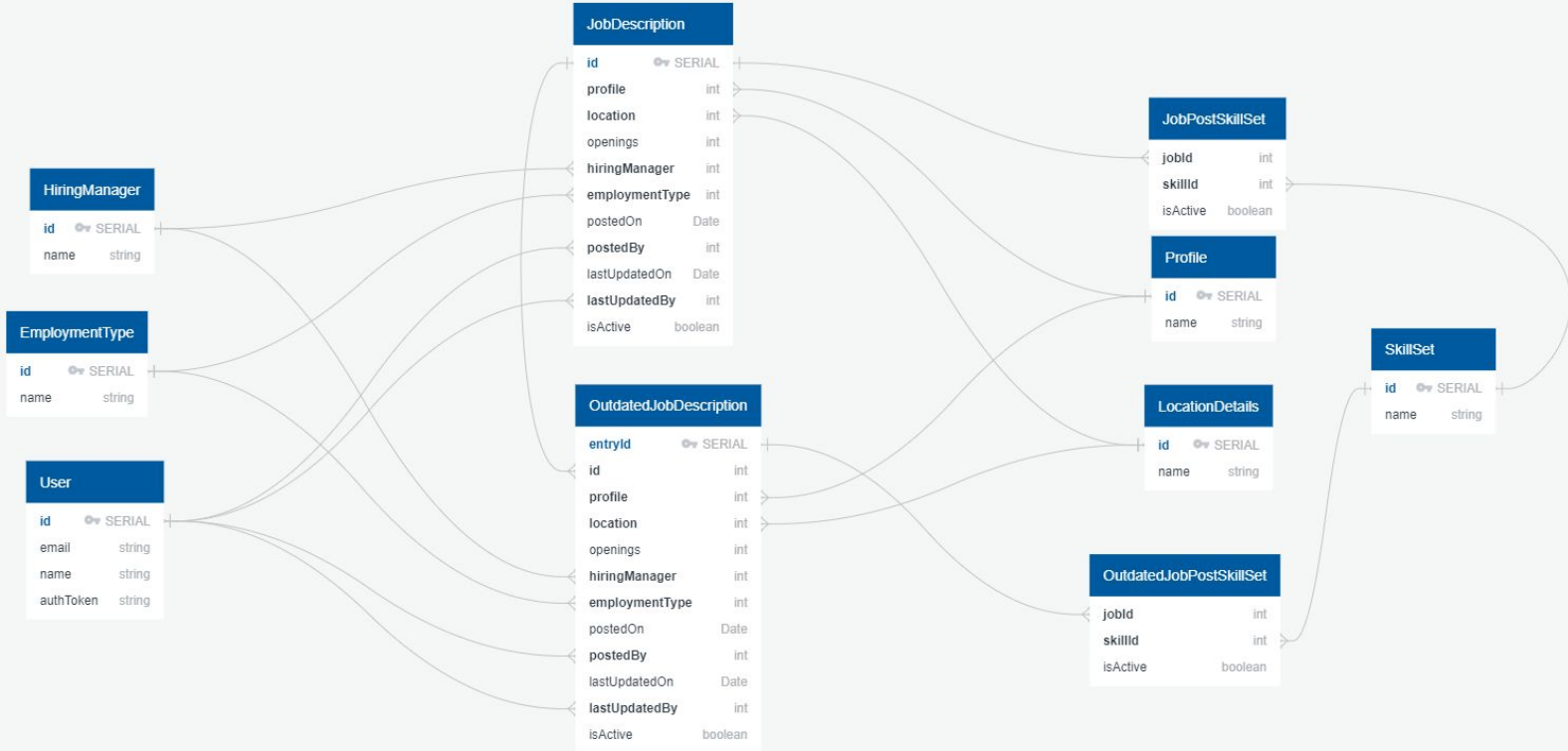
- ◆ Angular 9, TypeScript (Development Framework)
- ◆ Charts.js (Insights)
- ◆ Ng2-charts (angular engine for charts.js)

→ Backend

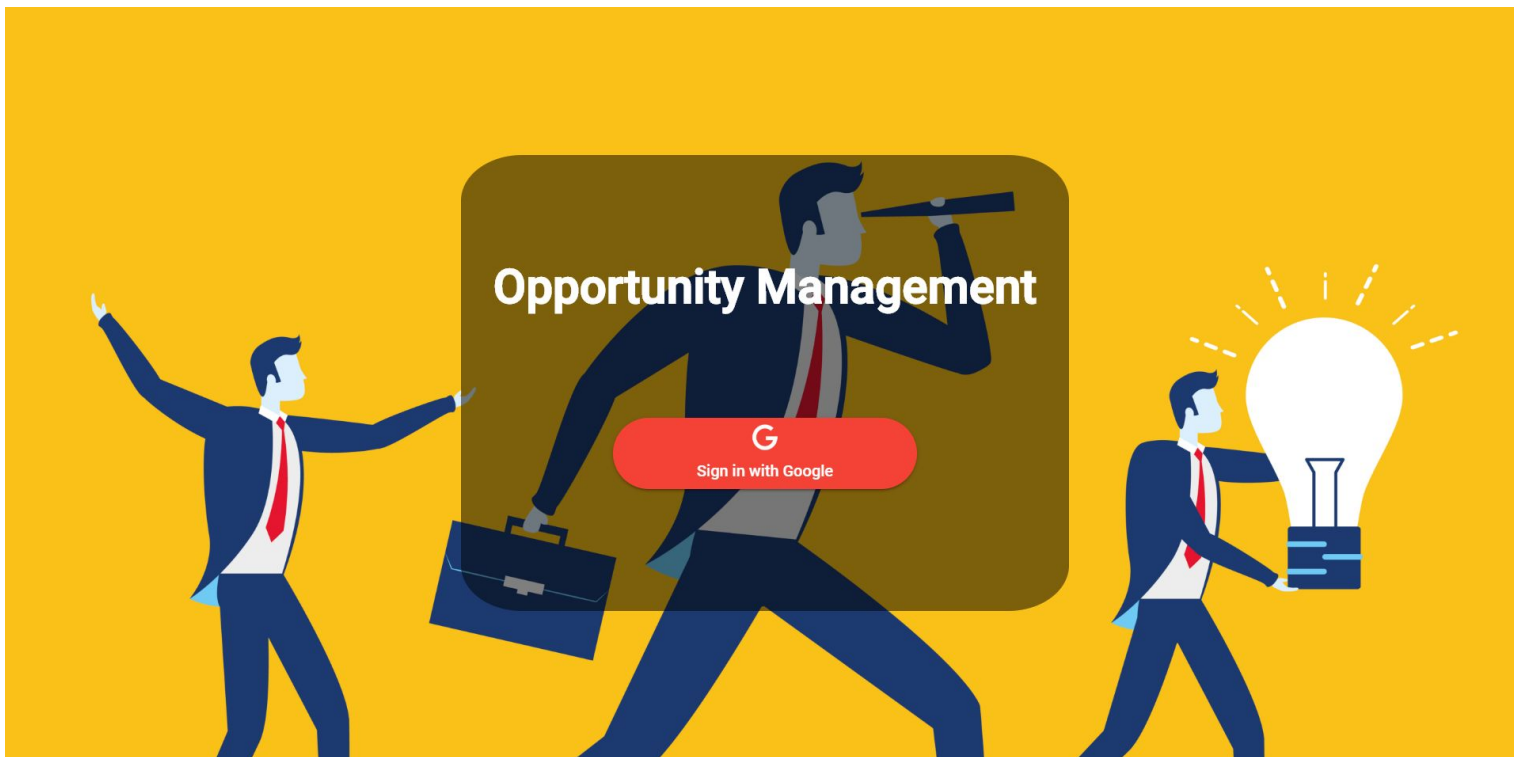
- ◆ Java 8 (Development Language)
- ◆ Spring BOOT(Server and EndPoints) (MVC Architecture followed with Controller, Service, DAO and Repository).
- ◆ Spring JDBC and JdbcTemplate (Database Access and Querying engine)
- ◆ PostgreSQL(Database)
- ◆ JUnit Jupiter 5 + Mockito(Unit testing and Dependency Mocking)
- ◆ Cucumber + JUnit Vintage Engine(Integration Testing)
- ◆ Slf4j and LogBack (Logging)
- ◆ SonarLint for Code Smells

Database Schema

www.quickdatabasediagrams.com



Login



Filter
Full

Filter By

Employment Type

Items per page: 25

1 - 8 of 8

Add/Edit Opportunity

Add Opportunity

Profile

Technical Analyst ▼

Employment Type *

Internship ▼

Openings *

10

Location *

Gurugram ▼

Hiring Manager * ▼

Please Select a Hiring Manager

Type in the Skill

Git ✕

Networking ✕

Angular ✕

Swift ✕

Job Description

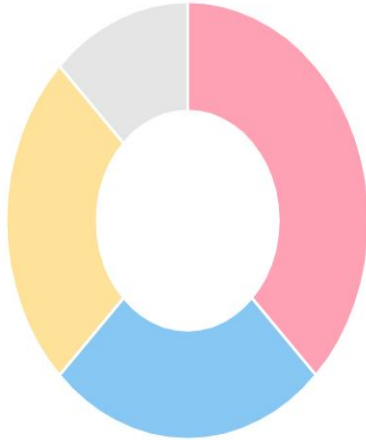
The Best Analyst job you could find

Submit

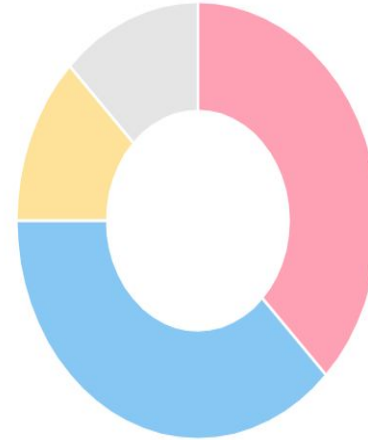
Reset

Trends

Location Wise Opportunities



Hiring Manager Wise Opportunities



Project Structure, Model Classes and Lombok

```

v [icon] > com.accolite.opportunitiesportal
  > [icon] > auth
  v [icon] > config
    > [icon] AddResponseHeaderFilter.java
    > [icon] AppConfig.java
    > [icon] CorsConfig.java
  v [icon] > jobs
    > [icon] constants
    v [icon] > controller
      > [icon] > JobAttributesController.java
      > [icon] > JobController.java
      > [icon] > JobDescriptionVersioningController.java
    v [icon] > dao
      > [icon] > JobsAttributeDao.java
      > [icon] > JobsDao.java
    > [icon] model
    > [icon] queries
    v [icon] > repository
      > [icon] > JobsRepository.java
    > [icon] rowmapper
    v [icon] > service
      > [icon] > JobAttributeService.java
      > [icon] > JobsService.java
  > [icon] OpportunitiesPortalApplication.java

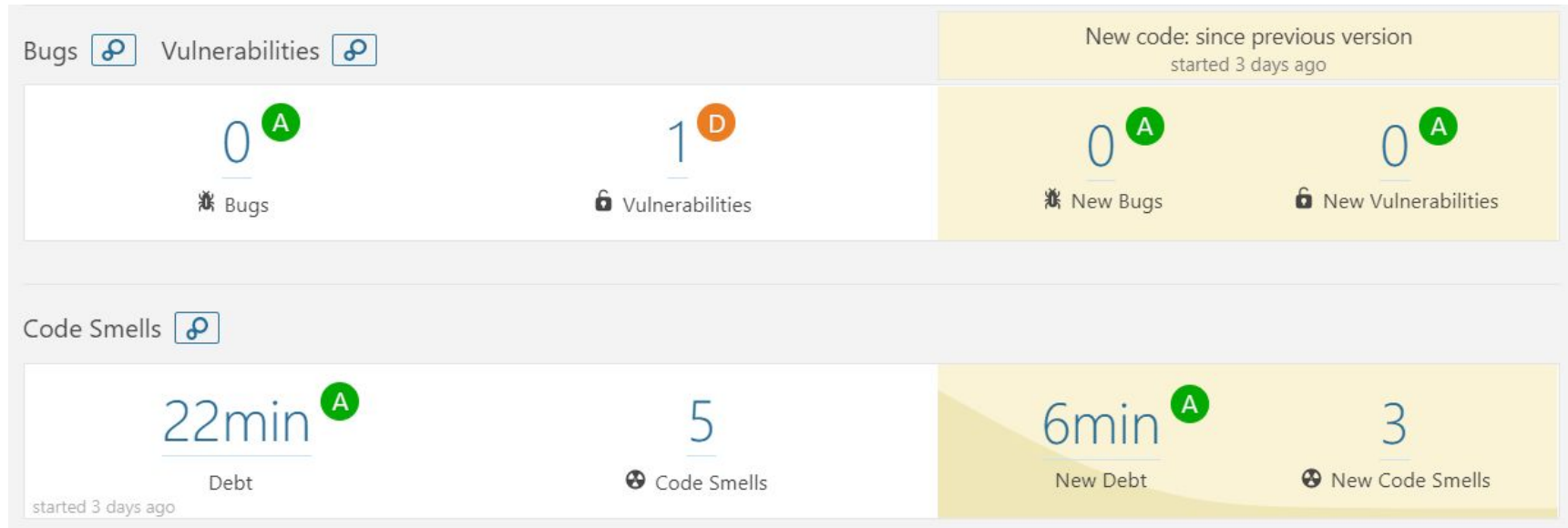
```

```

3+ import java.util.Date;
9
10 @Getter
11 @Setter
12 @AllArgsConstructor
13 @NoArgsConstructor
14 public class JobDescription {
15
16     int id;
17     int profile;
18     int location;
19     int employmentType;
20     int hiringManager;
21     int openings;
22     Date postedOn;
23     int postedBy;
24     Date lastUpdated;
25     int lastUpdatedBy ;
26     String description;
27
28
29 }
30

```

Quality Reporting in SonarQube



Code Coverage (Unit + Integration Testing) 96.7%

Finished after 16.886 seconds

Runs: 110/110 (2 skipped)

Errors: 0

Failures: 0

- > JobDescriptionVersioningControllerTest [Runner: JUnit 5] (0.444 s)
- > MobileProviderSignInControllerTest [Runner: JUnit 5] (1.080 s)
- > JobsRepositoryTestActual [Runner: JUnit 5] (1.599 s)
- > UserRepositoryTest [Runner: JUnit 5] (0.125 s)
- > JobsRepositoryTest [Runner: JUnit 5] (0.283 s)
- > OpportunitiesPortalApplicationTests [Runner: JUnit 5] (0.469 s)
- > RunCucumberTest [Runner: JUnit 5] (3.212 s)
- > JobsServiceTest [Runner: JUnit 5] (0.234 s)
- > JobsDaoTest [Runner: JUnit 5] (0.156 s)
- > SessionCryptTest [Runner: JUnit 5] (0.031 s)
- > JobsControllerStepDefinitions [Runner: JUnit 5] (0.157 s)

Failure Trace

Coverage

java (4 Jun, 2020 11:17:38 PM)

Element	Coverage	Covered Instru...	Missed Instruct...	Total Instructio...
▼ opportunitiesportal	98.1 %	6,289	121	6,410
> src/main/java	96.7 %	3,142	108	3,250
> src/test/java	99.6 %	3,147	13	3,160

Frontend Code Coverage (91.03 %)



```
===== Coverage summary =====  
Statements   : 91.03% ( 487/535 )  
Branches     : 88.46% ( 92/104 )  
Functions    : 86.55% ( 103/119 )  
Lines        : 90.82% ( 455/501 )  
=====
```

REST Endpoints Documentation using Swagger

The screenshot displays the Swagger UI interface. At the top, it shows the 'OpenAPI definition' with version 'v0' and 'OAS3' specification. Below this, a table lists API elements, including 'api/v3/api-docs' and 'api/opportunitiesportal'. A 'Servers' section is visible, with a dropdown menu set to 'http://localhost:8081 - Generated server url'. The main content area is divided into two sections: 'mobile-provider-sign-in-controller' and 'job-attributes-controller'. The 'mobile-provider-sign-in-controller' section lists two POST endpoints: '/api/jobs/signin/{providerId}' and '/api/jobs/verifySession'. The 'job-attributes-controller' section lists three GET endpoints: '/api/jobs/DropDownMap', '/api/jobs/jobInsights', and '/api/jobs/DropDownItems'.

OpenAPI definition v0 OAS3

api/v3/api-docs

Element	Coverage	Covered Instru...	Missed Instru...	Total Instructio...
api/opportunitiesportal	93.3 %	5,871	422	6,293

Servers

http://localhost:8081 - Generated server url

Failures: 0

mobile-provider-sign-in-controller

POST /api/jobs/signin/{providerId}

POST /api/jobs/verifySession

job-attributes-controller

GET /api/jobs/DropDownMap

GET /api/jobs/jobInsights

GET /api/jobs/DropDownItems

Thank You



Checkout my code at:

1. Frontend:
 - a. <https://github.com/gonsalvesrohit920/Opportunities-Portal-Frontend.git>
2. Backend:
 - a. <https://github.com/gonsalvesrohit920/Opportunities-Portal-Backend.git>