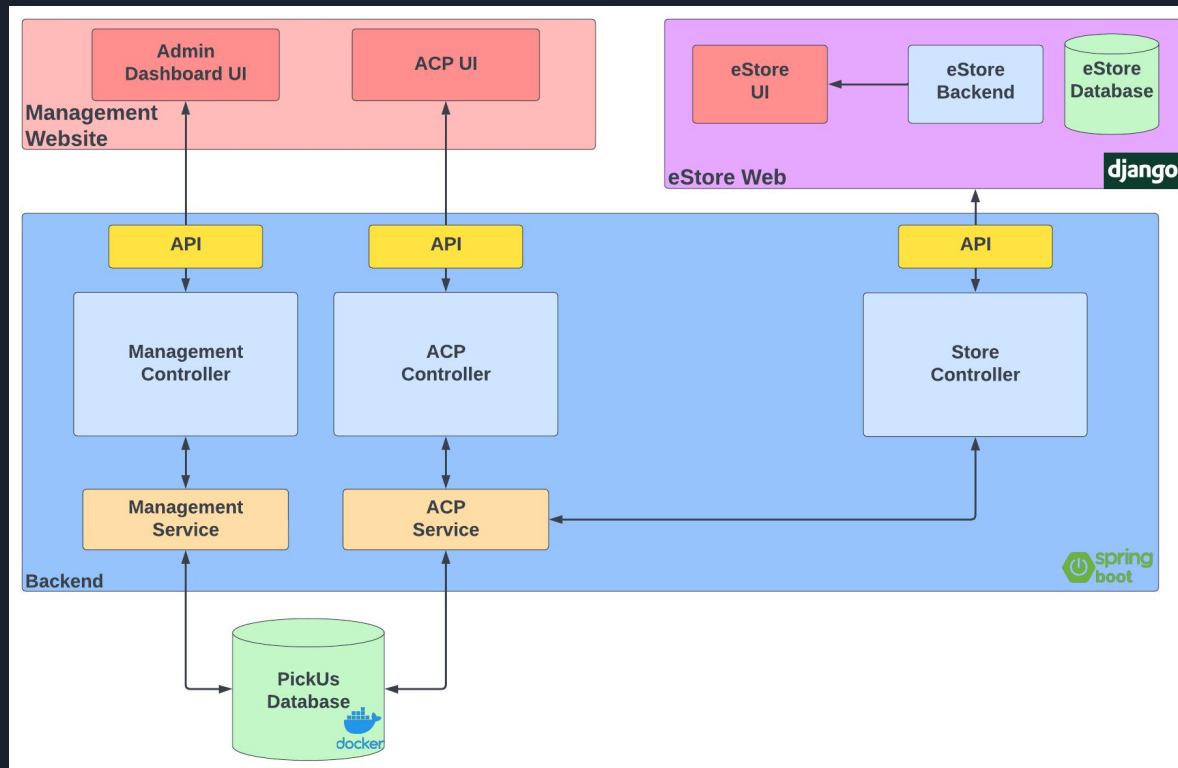




PickUS

Alexandre Gazur	102751
Daniel Ferreira	102885
Emanuel Marques	102565
Ricardo Pinto	103078

Architecture



Feature Branching

□  feature/TQSPROJ-34/register-acps ✓

#28 by Xela10001 was merged 2 weeks ago

 TQSPROJ-17 /  TQSPROJ-26

Accept New ACP Applications

 Anexar

 Adicionar um problema secundário

 Associar problema



Descrição

As an administrator, I want to accept new ACP applications so that we have more drop off locations available.

GIVEN I'm in the Admin Dashboard page





















WHEN I receive an ACP application

AND I click "Accept Application"

THEN the application is accepted

AND that ACP becomes a new drop off site.

Pull Requests

<input type="checkbox"/>	 Bugfix: allow cors origin to integrate with web apps ✓ #32 by DanielFerreira011102 was merged last week	 2
<input type="checkbox"/>	 feature/TQSPROJ-43/track-orders ✓ #31 by Xela10001 was merged last week	 1
<input type="checkbox"/>	 feature/TQSPROJ-40/list-acps ✓ #30 by Xela10001 was merged last week	 1
<input type="checkbox"/>	 feature/TQSPROJ-38/order-products ✓ #29 by Xela10001 was merged last week	 2
<input type="checkbox"/>	 feature/TQSPROJ-34/register-acps ✓ #28 by Xela10001 was merged 2 weeks ago	 2
<input type="checkbox"/>	 Hotfix: delete folder 'target' and gitignore it ✓ #27 by zzzzz151 was merged 2 weeks ago	 1
<input type="checkbox"/>	 Bug fix: fixed sonar coverage always 0 by refactoring CI workflow and adding jacoco ✓ #26 by zzzzz151 was merged 2 weeks ago	 1
<input type="checkbox"/>	  Bugfix sonar coverage always 0 - workflow refactor and jacoco added ✗ #25 by zzzzz151 was closed 2 weeks ago	 1
<input type="checkbox"/>	  Fixing bug sonar coverage always 0 by adding jacoco ✗ #24 by zzzzz151 was closed 2 weeks ago	 1

Coding style

Android Open Source Project (AOSP) Java coding style

- Naming Conventions
- Use english language
- Treat acronyms and abbreviations as words:
 - Class Html (not HTML)
 - String url (not URL)
- Use standard brace style
- Explicit access level
- Single declaration per line
- TODO comments (temporary)
- and other

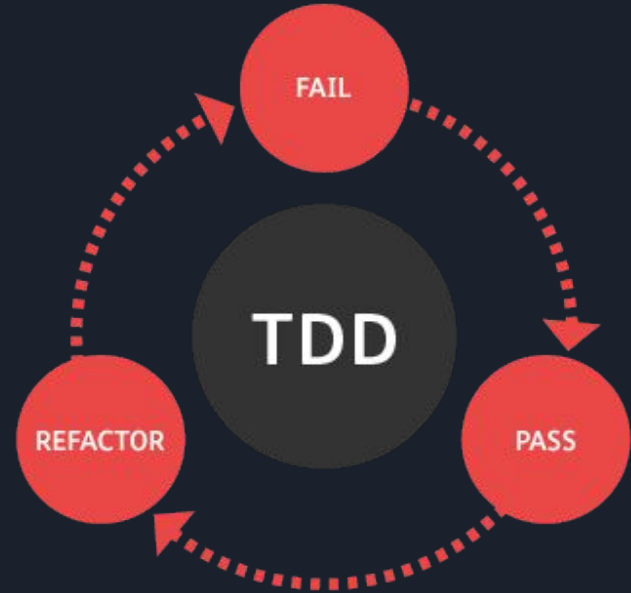


Software development practice

Test Driven Development (TDD)

We followed TDD whenever possible

The important thing is that we continued to use tests to ensure that everything worked before moving forward.





Unit Tests

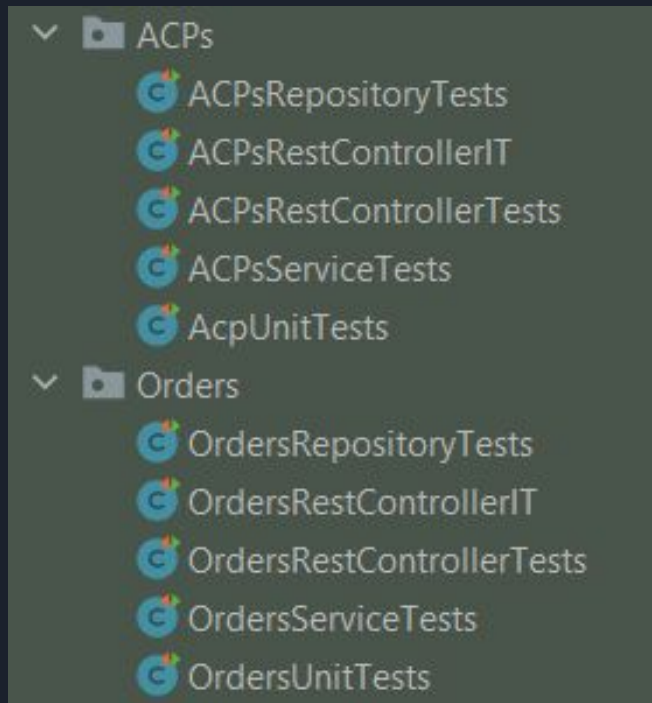
ACP - 12 Unit Tests

Orders - 9 Unit Tests

Repository Tests limit the scope to just data access

Services Tests mock their repository

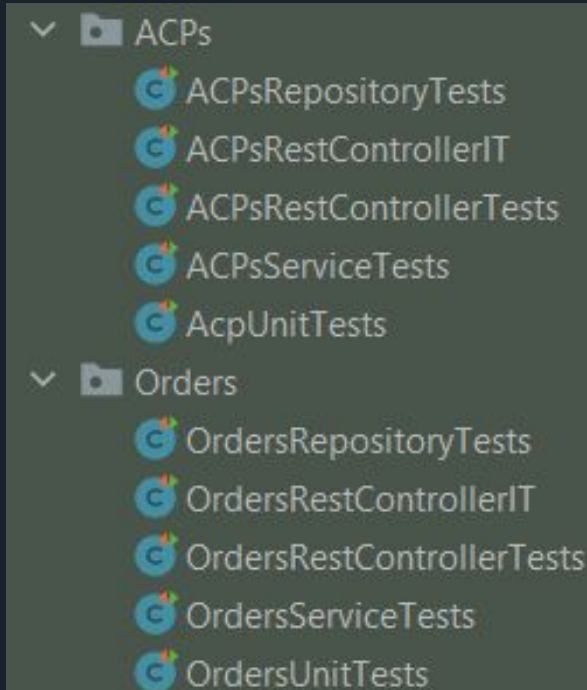
Controller Tests mock their service and use MockMVC



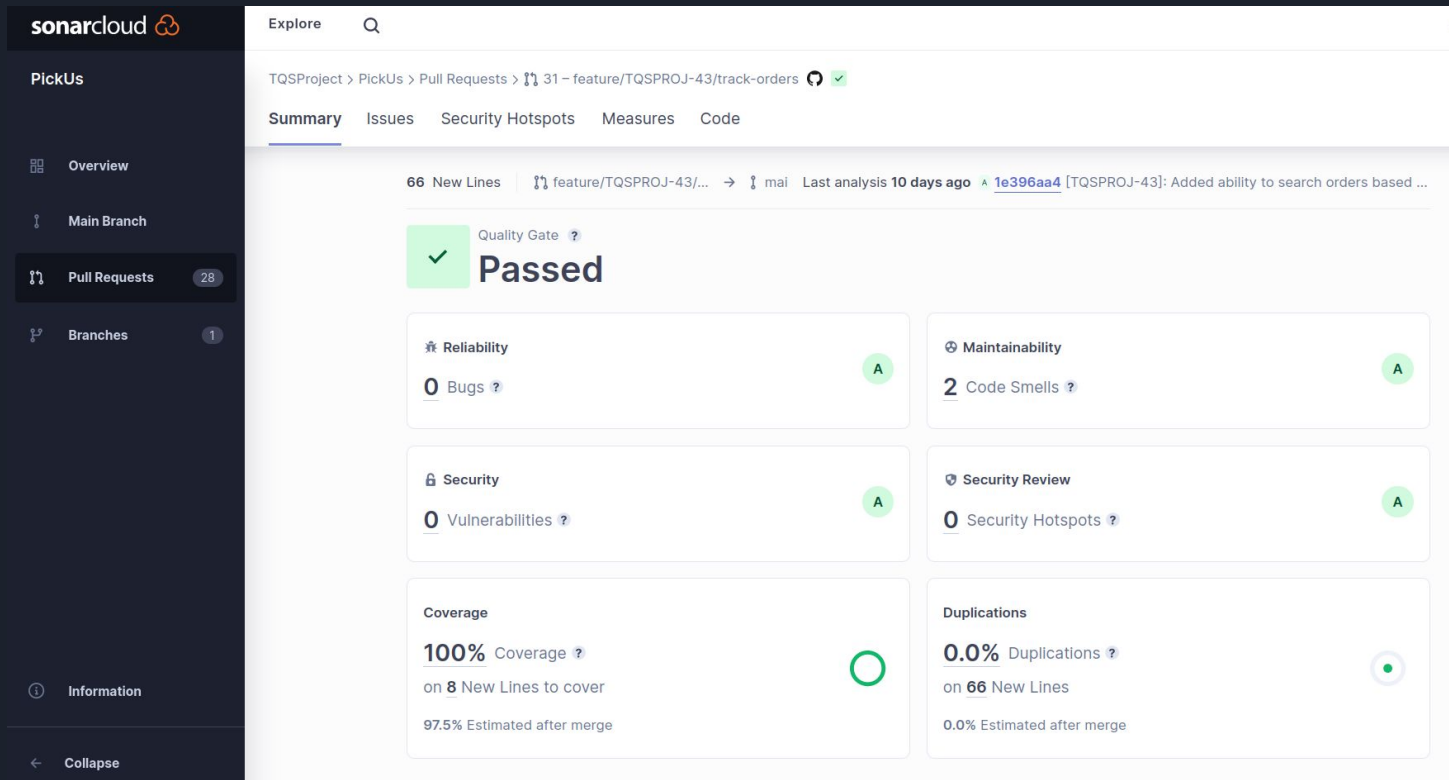
Integration Tests

5 Integration Tests

Uses the entire system (@SpringBootTest)
Tests POST and GET endpoints




Static Code Analysis



The screenshot displays the SonarCloud web interface. On the left is a dark sidebar with navigation links: 'PickUs', 'Overview', 'Main Branch', 'Pull Requests' (highlighted with a '28' badge), 'Branches' (with a '1' badge), and 'Information'. The main content area is titled 'Explore' and shows the path 'TQSPROject > PickUs > Pull Requests > 31 - feature/TQSPROJ-43/track-orders'. Below this is a tabbed interface with 'Summary' selected. The summary shows '66 New Lines' and 'Last analysis 10 days ago'. A large green checkmark icon and the text 'Quality Gate Passed' are prominent. Below this, six metrics are displayed in a grid:

Metric	Value	Grade
Reliability	0 Bugs	A
Maintainability	2 Code Smells	A
Security	0 Vulnerabilities	A
Security Review	0 Security Hotspots	A
Coverage	100% Coverage on 8 New Lines to cover 97.5% Estimated after merge	A
Duplications	0.0% Duplications on 66 New Lines 0.0% Estimated after merge	A



SonarCloud Quality Gate

Sonar way + overall code















Conditions ?

[Add Condition](#)













Conditions on New Code

Conditions on New Code apply to all branches and to Pull Requests.

Metric	Operator	Value
Coverage	is less than	80.0%  
Duplicated Lines (%)	is greater than	3.0%  
Maintainability Rating	is worse than	A  
Reliability Rating	is worse than	A  
Security Hotspots Reviewed	is less than	100%  
Security Rating	is worse than	A  

Conditions on Overall Code

Conditions on Overall Code apply to long-lived branches only.

Metric	Operator	Value
Coverage	is less than	80.0%  
Duplicated Lines (%)	is greater than	3.0%  
Maintainability Rating	is worse than	A  
Reliability Rating	is worse than	A  
Security Hotspots Reviewed	is less than	100%  
Security Rating	is worse than	A  



Continuous Integration Pipeline

GitHub Actions

Push or Pull Request events triggers this workflow which runs the tests and analyses the code with Sonar Cloud

```
on:
  push:
    branches:
      - main
  pull_request:
    types: [opened, synchronize, reopened]

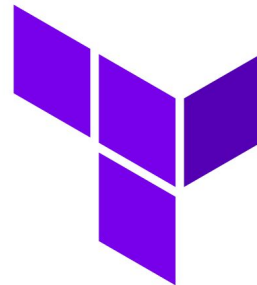
jobs:
  build:
    name: PickUs Tests
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v3
        with:
          fetch-depth: 0 # Shallow clones should be disabled for a better relevancy of analysis
      - name: Set up JDK 17
        uses: actions/setup-java@v3
        with:
          java-version: 17
          distribution: 'zulu' # Alternative distribution options are available.
      - name: Create MySQL container
        run: docker compose -f PickUs/docker-compose.yml up mysql-db -d
      - name: Compile, run tests and integration tests
        run: mvn verify --file PickUs/pom.xml

  sonarAnalysis:
    name: Sonar Analysis
    if: ${ always() }
    needs: build
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v3
        with:
          fetch-depth: 0 # Shallow clones should be disabled for a better relevancy of analysis
      - name: Set up JDK 17
        uses: actions/setup-java@v3
        with:
          java-version: 17
```

Deployment



Google
Compute
Engine



Terraform



Demo