

SONAR Report(Code Coverage)- FlightBookingMicroservices

a)Notification_Microservices

Before:

The screenshot shows the SonarCloud dashboard for the 'Notification_Microservice' project. The main summary section displays the following metrics:

| Category | Value | Status |
|-------------------|---------------|--------------------|
| Security | 0 Open issues | A |
| Reliability | 0 Open issues | A |
| Maintainability | 0 Open issues | A |
| Accepted Issues | 0 | ? |
| Coverage | 0.0% | Red |
| Duplications | 0.0% | Green |
| Security Hotspots | 0 | |

On the left sidebar, under 'Main Branch', there are sections for Overview, Pull Requests, and Branches. The 'Information' and 'Administration' sections are also visible.

After:

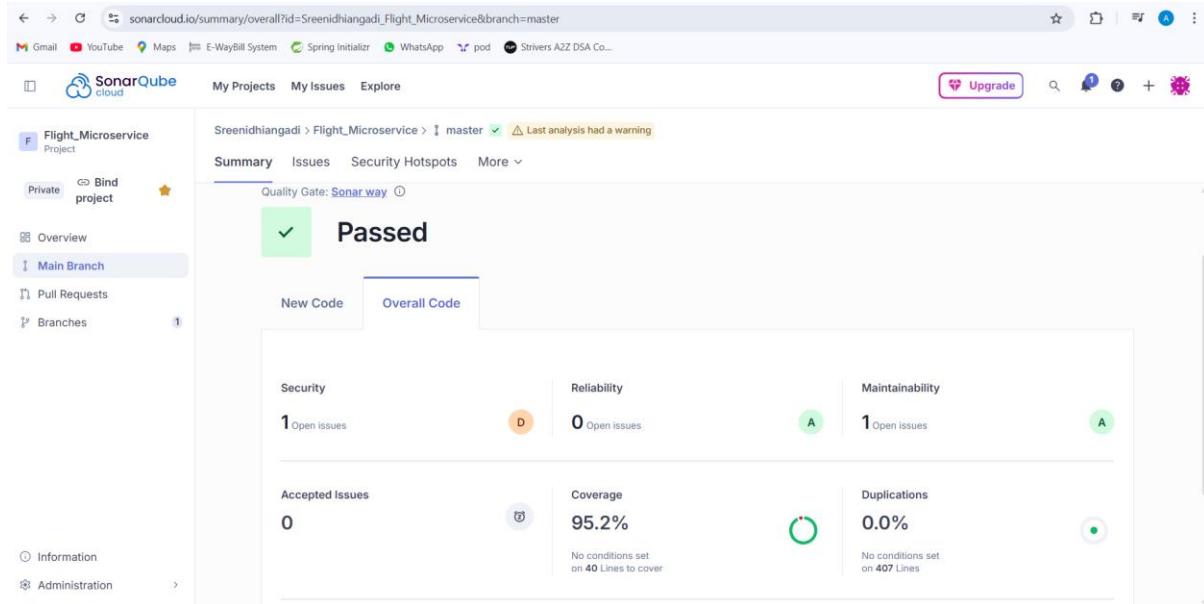
The screenshot shows the SonarCloud dashboard for the 'Notification_Microservice' project after optimization. The main summary section now displays the following metrics:

| Category | Value | Status |
|-------------------|---------------|--------------------|
| Security | 0 Open issues | A |
| Reliability | 0 Open issues | A |
| Maintainability | 0 Open issues | A |
| Accepted Issues | 0 | ? |
| Coverage | 95.0% | Green |
| Duplications | 0.0% | Green |
| Security Hotspots | 0 | |

A green checkmark icon is displayed above the coverage metric, indicating a successful analysis. The 'Quality Gate: Sonar way' status is shown as 'Passed'. On the left sidebar, the 'Main Branch' section is highlighted in green, indicating the current active branch. The 'Information' and 'Administration' sections are also visible.

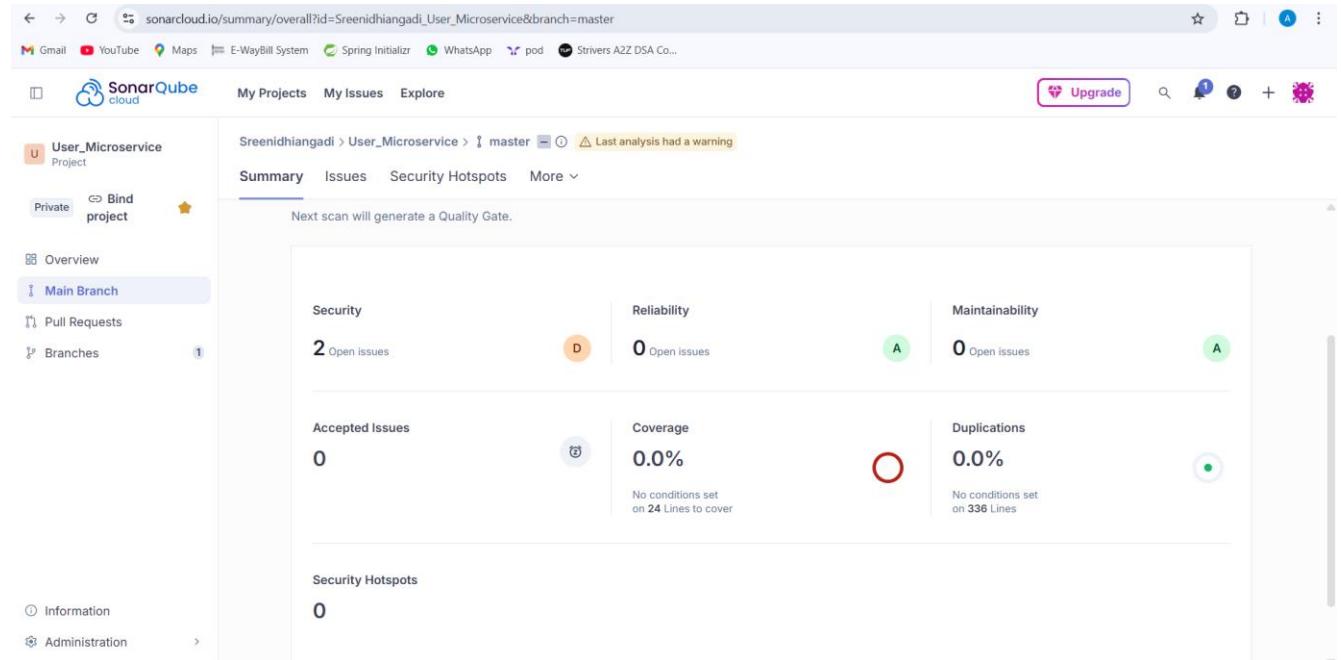
b)Flight_Microservices

After:



c)User_Microservices

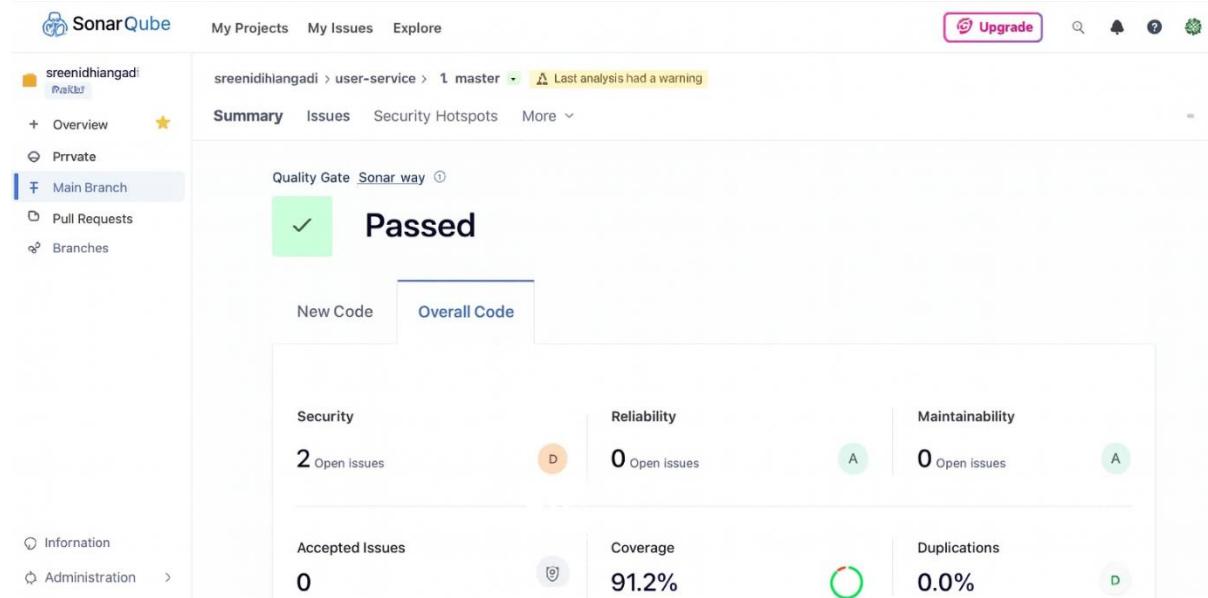
Before:



Screenshot of the SonarCloud interface showing the 'User_Microservice' project summary. The sidebar shows 'Main Branch' selected. The summary card indicates 'Next scan will generate a Quality Gate.' The Quality Gate section shows the following metrics:

| Metric | Status | Value | Color |
|-------------------|--------|--|--------|
| Security | D | 2 Open issues | Orange |
| Reliability | A | 0 Open issues | Green |
| Maintainability | A | 0 Open issues | Green |
| Accepted Issues | O | 0 | Grey |
| Coverage | 0.0% | No conditions set on 24 Lines to cover | Red |
| Duplications | 0.0% | No conditions set on 336 Lines | Green |
| Security Hotspots | O | 0 | Grey |

iii)After:



Screenshot of the SonarCloud interface showing the 'user-service' project summary. The sidebar shows 'Main Branch' selected. The summary card indicates 'Quality Gate Sonar way' has passed. The Quality Gate section shows the following metrics:

| Metric | Status | Value | Color |
|-----------------|--------|---------------|--------|
| Security | D | 2 Open issues | Orange |
| Reliability | A | 0 Open issues | Green |
| Maintainability | A | 0 Open issues | Green |
| New Code | Passed | Overall Code | Green |
| Accepted Issues | O | 0 | Grey |
| Coverage | 91.2% | 91.2% | Green |
| Duplications | 0.0% | 0.0% | Green |

d)Booking_Microservice

Before:

The screenshot shows the SonarCloud dashboard for the 'Booking_Microservice' project. The left sidebar includes links for Overview, Main Branch (selected), Pull Requests, Branches, Information, and Administration. The main content area displays a summary card with metrics: Security (0 Open issues, A grade), Reliability (0 Open issues, A grade), Maintainability (9 Open issues, A grade), Accepted Issues (0), Coverage (7.2%, red circle icon), Duplications (0.0%), and Security Hotspots (0). A note indicates 'No conditions set on 114 Lines to cover'.

After:

The screenshot shows the SonarCloud dashboard for the 'Booking_Microservice' project after optimization. The left sidebar remains the same. The main content area now features a 'Passed' status indicator with a green checkmark. Below it, the summary card shows updated metrics: Security (0 Open issues, A grade), Reliability (0 Open issues, A grade), Maintainability (12 Open issues, A grade), Accepted Issues (0), Coverage (90.6%, green circle icon), Duplications (0.0%), and Security Hotspots (0). A note indicates 'No conditions set on 114 Lines to cover'.