

Important Screenshots of the Assignment:

SonarQube Analysis:(Overall Code)

The screenshot shows the SonarQube interface for the `trademax-pro` project. The main header displays the URL `sonarcloud.io/summary/overall?id=PolakuJoshiKaSree_TradeMaxPro&branch=master`. The left sidebar shows the project navigation with the `Main Branch` selected. The main content area is titled **Main Branch Summary** and indicates 753 Lines of Code, Version 0.0.1-SNAPSHOT, and a last analysis 7 minutes ago. A prominent green checkmark icon with the word **Passed** indicates the quality gate status. Below this, there are two tabs: **New Code** (selected) and **Overall Code**. The summary section includes metrics for Security, Reliability, and Maintainability, all showing 0 open issues with grade A. It also shows Accepted Issues (0), Coverage (83.4%), Duplications (0.0%), and a note about no conditions set on 268 lines to cover.

SonarQube Analysis:(New Code)

The screenshot shows the SonarQube interface for the `trademax-pro` project, specifically the **New Code** summary. The URL is `sonarcloud.io/summary/new_code?id=PolakuJoshiKaSree_TradeMaxPro&branch=master`. The left sidebar shows the project navigation with the `Main Branch` selected. The main content area is titled **New Code** and indicates new code since about 8 hours ago. It shows 0 New Issues and 0 Accepted Issues. Coverage is listed as 88.57% with a note that required coverage is 80.0% on 19 New Lines to cover. The bottom section shows Duplications (0.0%) and Security Hotspots (0), both with notes about conditions set.

MongoDB:

The screenshot shows the Compass MongoDB interface. On the left, there's a sidebar with 'Connections' (localhost:27017) and a 'users' collection selected. The main area displays three documents in the 'users' collection:

```
_id: "js@email.com"
name: "joshiika"
email: "panid"
pan: "akjdhb"
_class: "com.trademaxpro.model.User"

_id: "1234"
name: "joshiika"
email: "joshiika@gmail.com"
pan: "ABC123"
wallet: Object
balance: 9000
portfolio: Array (1)
  * 0: Object
    * 0: Object
      ticker: "TCS"
      quantity: 1
      avgPrice: 3924.9731720281397
    _class: "com.trademaxpro.model.User"

_id: "1235"
name: "Vanshika"
email: "vanshika@gmail.com"
pan: "ABCDE1234E"
wallet: Object
portfolio: Array (empty)
_class: "com.trademaxpro.model.User"
```

Postman :(all the requests here are working)

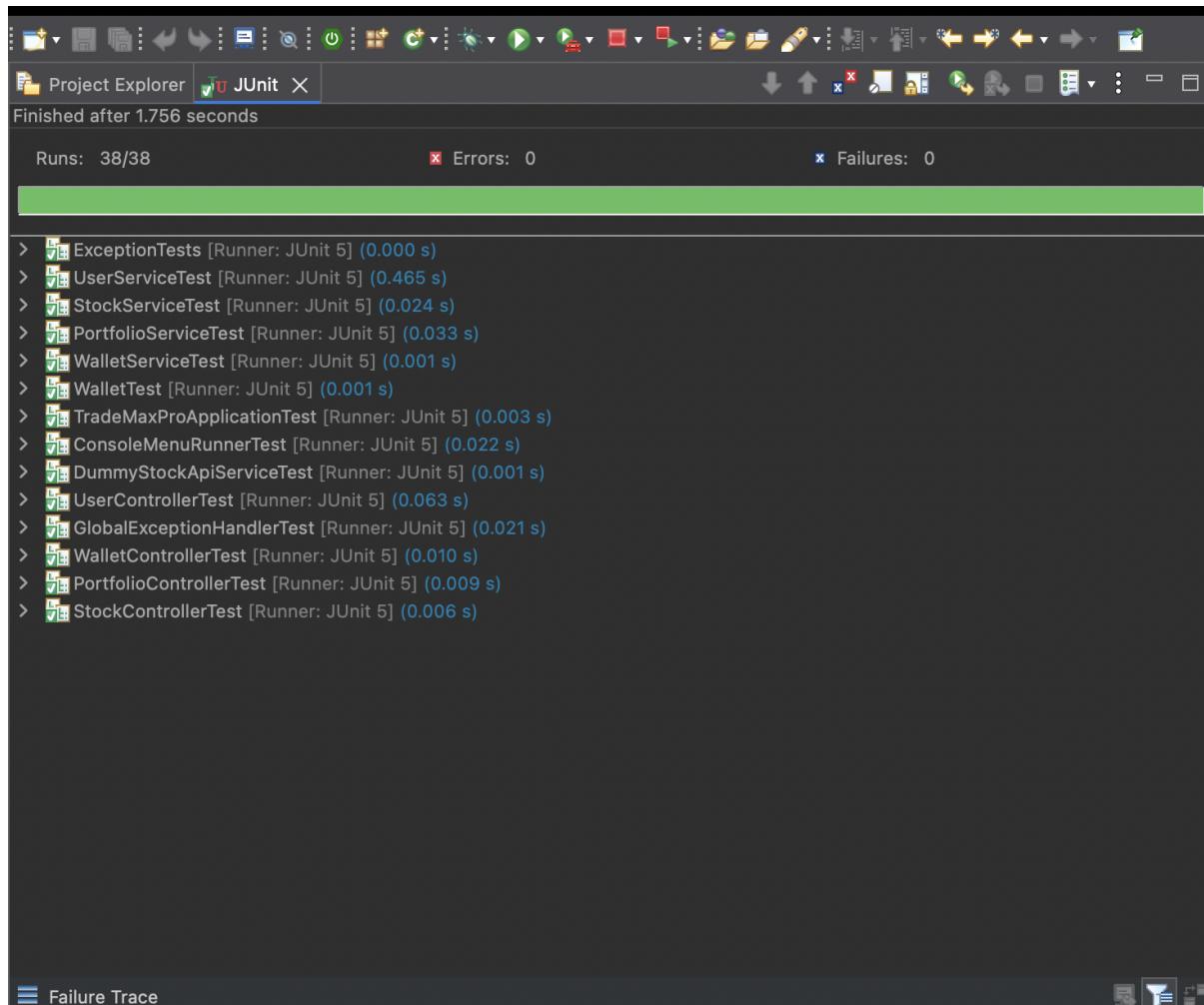
The screenshot shows the Postman application interface. On the left, there's a sidebar with 'Collections' (Joshi sree Polaku's Workspace), 'Environments', 'History', 'APIs', 'Specs', 'Mock servers', 'Monitors', 'Flows', and 'Insights'. The main area shows a 'tradepromax / Post user details' collection. A POST request is selected with the URL `http://localhost:8080/api/users/register`. The 'Body' tab shows the following JSON payload:

```
{
  "id": "1235",
  "name": "Vanshika",
  "email": "Vanshika@gmail.com",
  "pan": "ABCDE1234E"
}
```

The response section shows a 200 OK status with a response time of 154 ms and a body size of 282 B. The response JSON is:

```
{
  "id": "1235",
  "name": "Vanshika",
  "email": "Vanshika@gmail.com",
  "pan": "ABCDE1234E",
  "wallet": {
    "balance": 0.0
  },
  "portfolio": []
}
```

JUnit Testing:

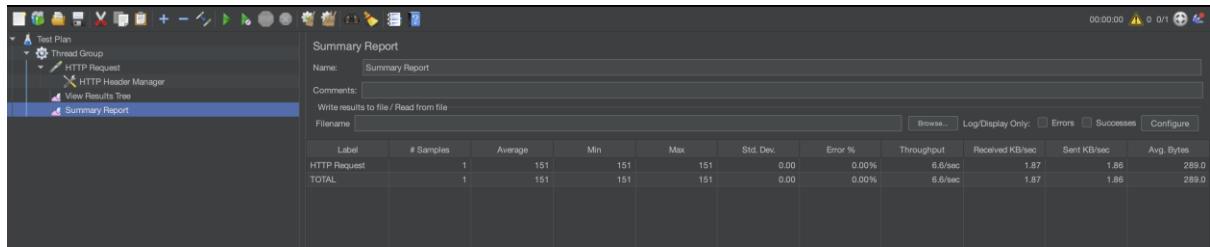


Springboot output:

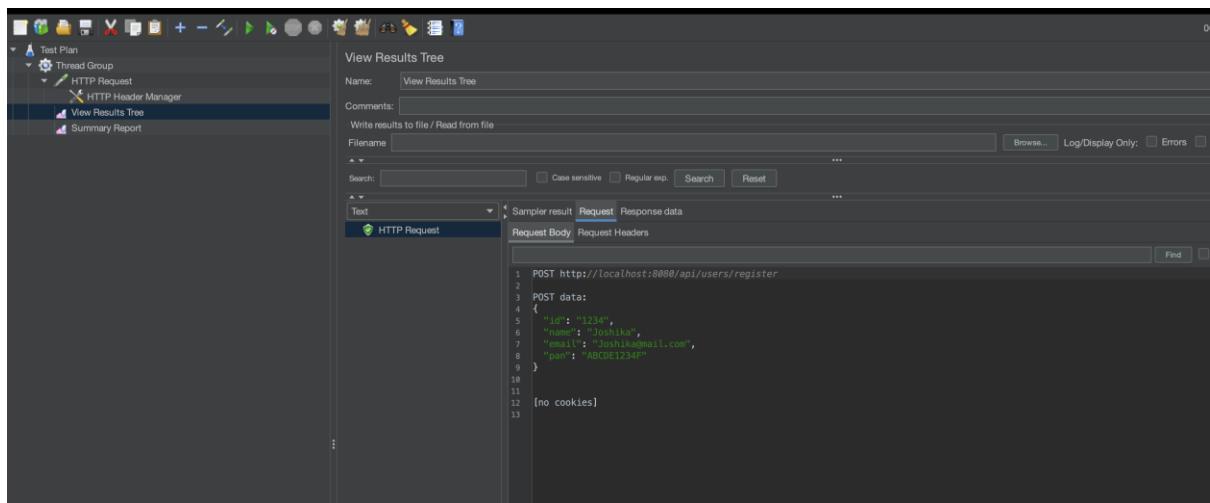
```
2025-11-27T23:52:36.215+05:30 [INFO] [96623] [main] [com.trademaxpro.ConsoleMenuRunner] ===== TradeMax Pro =====
2025-11-27T23:52:36.215+05:30 [INFO] [96623] --- [TradeMaxPro] [main] com.trademaxpro.ConsoleMenuRunner : 1. Register User
2025-11-27T23:52:36.215+05:30 [INFO] [96623] --- [TradeMaxPro] [main] com.trademaxpro.ConsoleMenuRunner : 2. Add Money
2025-11-27T23:52:36.215+05:30 [INFO] [96623] --- [TradeMaxPro] [main] com.trademaxpro.ConsoleMenuRunner : 3. Withdraw Money
2025-11-27T23:52:36.215+05:30 [INFO] [96623] --- [TradeMaxPro] [main] com.trademaxpro.ConsoleMenuRunner : 4. View Balance
2025-11-27T23:52:36.215+05:30 [INFO] [96623] --- [TradeMaxPro] [main] com.trademaxpro.ConsoleMenuRunner : 5. View Stocks
2025-11-27T23:52:36.215+05:30 [INFO] [96623] --- [TradeMaxPro] [main] com.trademaxpro.ConsoleMenuRunner : 6. Buy Stock
2025-11-27T23:52:36.215+05:30 [INFO] [96623] --- [TradeMaxPro] [main] com.trademaxpro.ConsoleMenuRunner : 7. Sell Stock
2025-11-27T23:52:36.215+05:30 [INFO] [96623] --- [TradeMaxPro] [main] com.trademaxpro.ConsoleMenuRunner : 8. View Portfolio
2025-11-27T23:52:36.215+05:30 [INFO] [96623] --- [TradeMaxPro] [main] com.trademaxpro.ConsoleMenuRunner : 9. Exit
2025-11-27T23:52:36.215+05:30 [INFO] [96623] --- [TradeMaxPro] [main] com.trademaxpro.ConsoleMenuRunner : Choose:
```

JMeter:

SUMMARY REPORT for post request to register user



View result tree:



After disabling Post request and sending a Get request:

