

# CROSS-PLATFORM APPLICATION DEVELOPMENT

## Team Members:

Aishwarya G -2021SP93074

Sharadhi-2021SP93034

Pragti Singh-2021SP93061

Pratyush Sinha-2021SP93070

Mohith M-2021SP93069

# Problem Statement

Do any of the following seem familiar?

- Feeling bored of studying alone or working too much?
- Confused between learning & playing?
- Want to learn while you play?

Don't think you're unusual because there are thousands of students or in general say people who wants this!



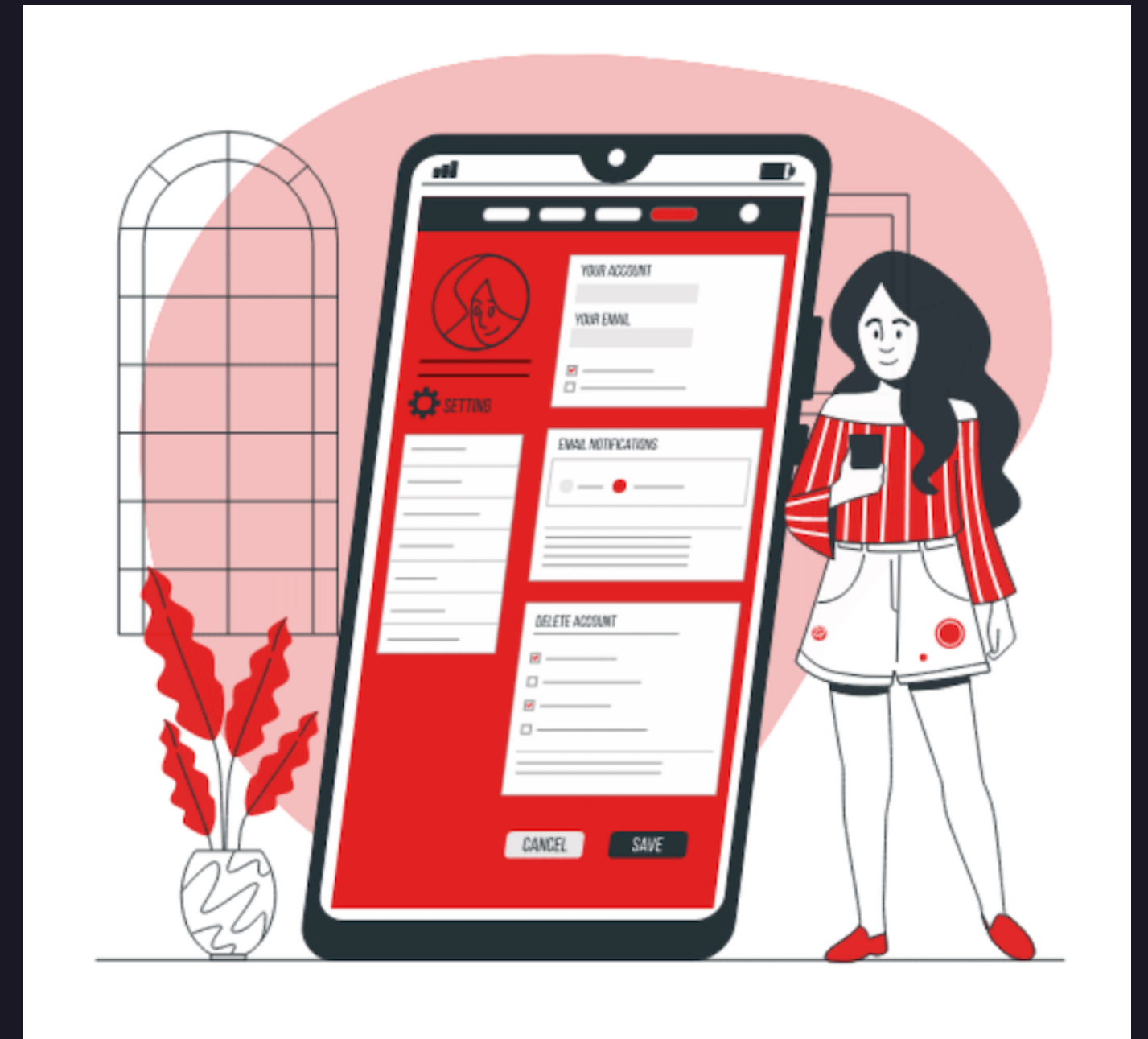
# Solution

- TRIVIA is the go-to app that helps one to play quizzes in group.
- It helps in passing your time in a fun and productive way.



# Features

- 216,138 Trivia Questions
- Sign-in/Sign-up
- Play Trivia based on different categories
- Play with friends
- Learn new things





# Front End

- **FLUTTER:** Flutter is an open-source mobile UI framework created by Google which allows us to develop cross platform applications
- **DART :** Dart is a programming language designed for client development, such as for the web and mobile apps.



# Backend

- **FIREBASE:** Firebase is a set of hosting services for any type of application (Android, iOS, JavaScript, Node.js, Java, Unity, PHP, C++..). It is a platform developed by Google for creating mobile and web applications



# CI/CD Setup and Hosting

```
Dashboard > POC > SampleProject > main > #23

14:42:09 Now using project quiz-bf7e6
14:42:09 [Pipeline] sh
14:42:10 + firebase deploy --token 1//0gFRX0By0V_oRCgYIARAAGBASNwF-L9Ir97No0j2dUVdvJXsFF-
e1tfP8cDGyvnLvFHKonaIvRpGV8wh8zV7rgLg1C7odWuAHBtg --non-interactive
14:42:11 ⚠ Authenticating with '--token' is deprecated and will be removed in a future major version
'firebase-tools'. Instead, use a service account key with 'GOOGLE_APPLICATION_CREDENTIALS':
https://cloud.google.com/docs/authentication/getting-started
14:42:12
14:42:12 === Deploying to 'quiz-bf7e6'...
14:42:12
14:42:12 i deploying hosting
14:42:14 i hosting[quiz-bf7e6]: beginning deploy...
14:42:14 i hosting[quiz-bf7e6]: found 5 files in web
14:42:15 i hosting: upload complete
14:42:15 ✓ hosting[quiz-bf7e6]: file upload complete
14:42:15 i hosting[quiz-bf7e6]: finalizing version...
14:42:15 ✓ hosting[quiz-bf7e6]: version finalized
14:42:15 i hosting[quiz-bf7e6]: releasing new version...
14:42:16 ✓ hosting[quiz-bf7e6]: release complete
14:42:16
14:42:16 ✓ Deploy complete!
14:42:16 Project Console: https://console.firebase.google.com/project/quiz-bf7e6/overview
14:42:16 Hosting URL: https://quiz-bf7e6.web.app
14:42:16 [Pipeline] sh
```

Dashboard > POC > SampleProject > main >

Status

Changes

Build Now

View Configuration

Full Stage View

Job Config History

Open Blue Ocean

GitHub

Embeddable Build Status

Pipeline Syntax

Full project name: POC/SampleProject/main

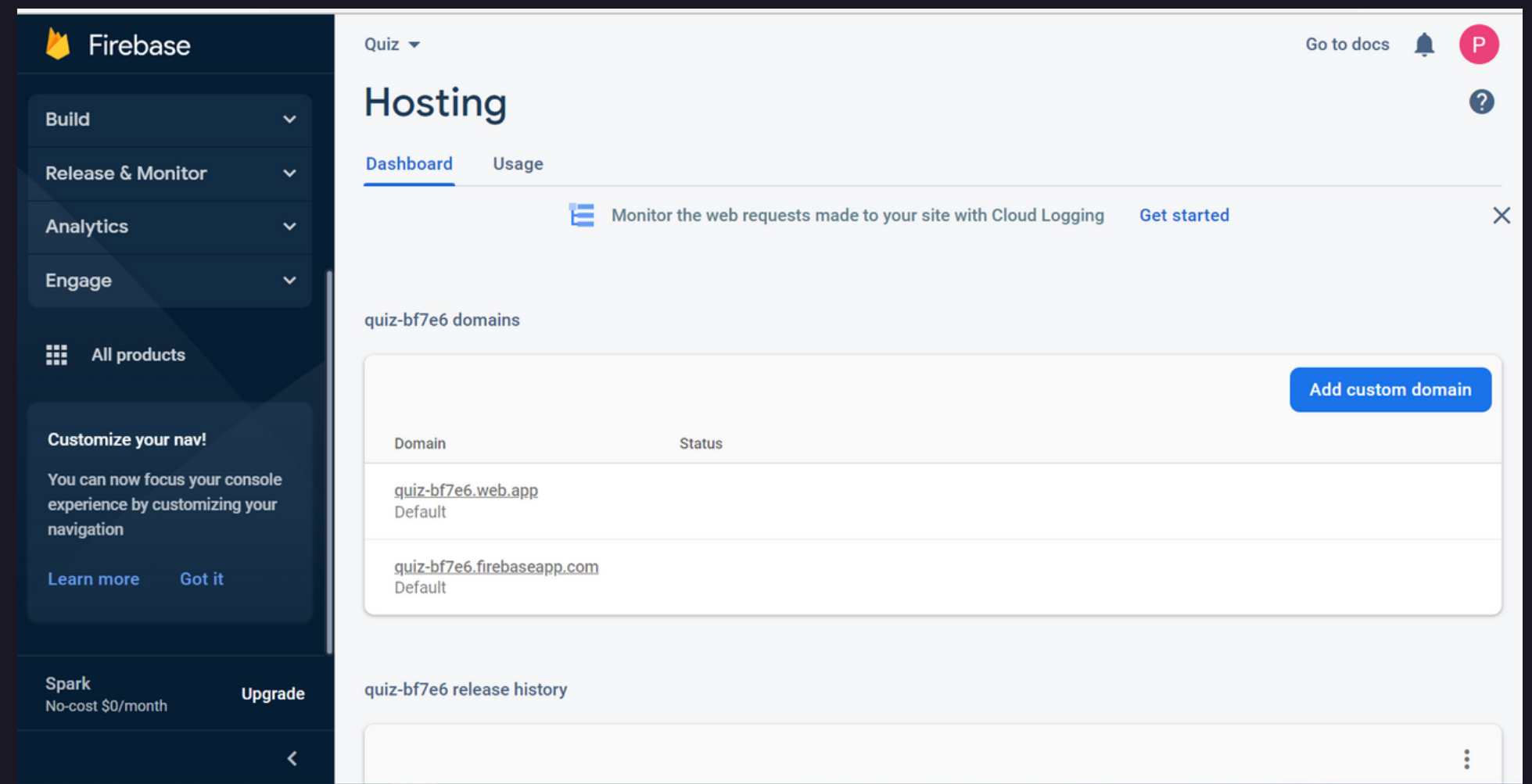
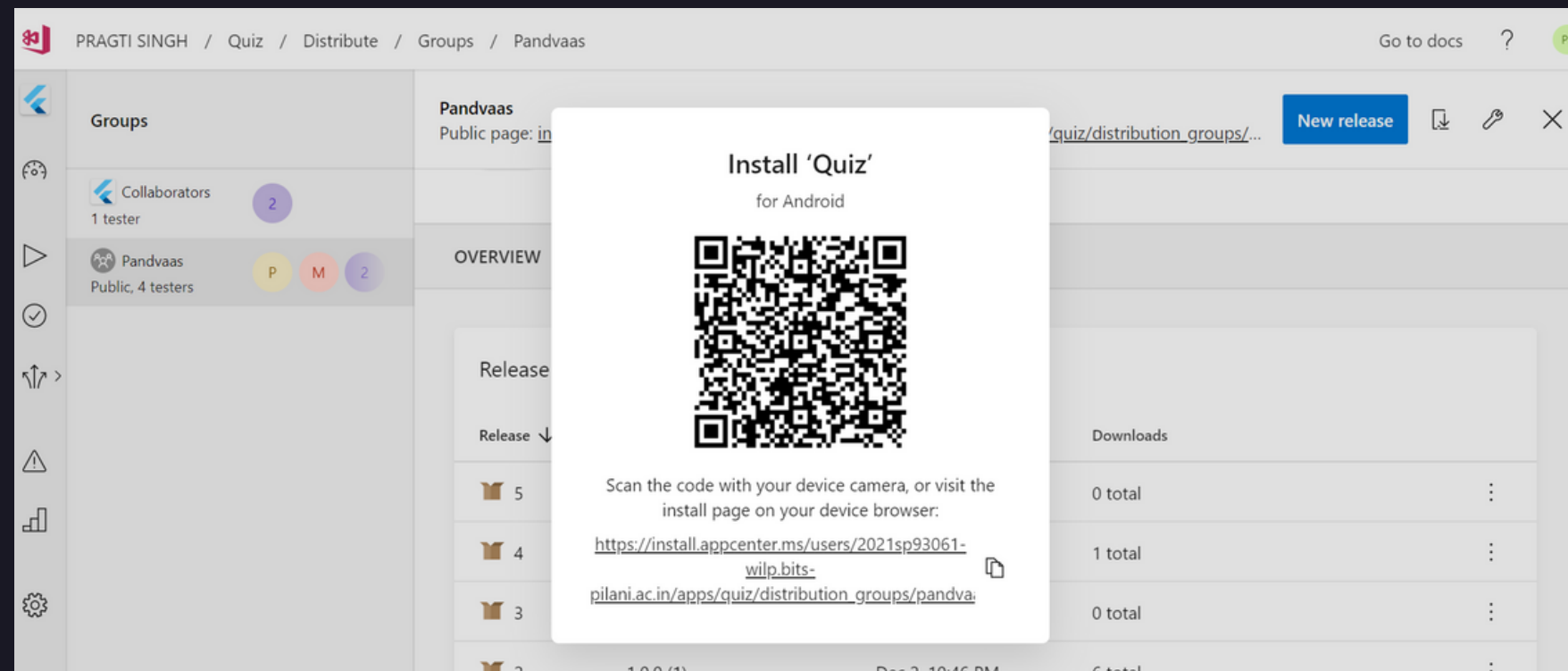
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Recent Changes

Stage View

	Building Quiz App	Publishing to App Center	Publishing to Web
Average stage times: (Average <u>full</u> run time: ~8min 38s)	3min 59s	2min 45s	1min 52s
#21 Dec 03 11:28 1 commit	3min 8s (paused for 9ms)	44s (paused for 8ms)	3min 45s (paused for 7ms)
#20 Dec 03 11:13 2 commits	2min 59s (paused for 8ms)	41s (paused for 9ms)	162ms (paused for 7ms) failed

# Hosting for Android and Web





# Integration With SonarQube

The screenshot displays the SonarCloud web interface for a project named **CPAD2022SecATeam06**. The left sidebar contains navigation links: Overview, Main Branch, Pull Requests (0), Branches (1), Information, and Administration. The main content area shows the project's summary, including the branch **main** and a search bar. The **Summary** tab is active, displaying the following metrics:

- 184 Lines of Code** (with a help icon)
- Last analysis 7 minutes ago** (with analysis ID [ce55c279](#))
- Quality Gate**: **Not computed** (with a help icon). A button **Set New Code Definition** is available. A note states: "The Quality Gate helps you see if your New Code is deployable or not."
- Reliability**: **1 Bugs** (with a help icon), grade **C**.
- Maintainability**: **1 Code Smells** (with a help icon), grade **A**.
- Security**: **0 Vulnerabilities** (with a help icon), grade **A**.
- Security Review**: **3 Security Hotspots** (with a help icon), **0.0% Reviewed**, grade **E**.
- Coverage**: A message states "A few extra steps are needed for SonarCloud to analyze your code coverage" (with a help icon).
- Duplications**: **0.0% Duplications** (with a help icon).

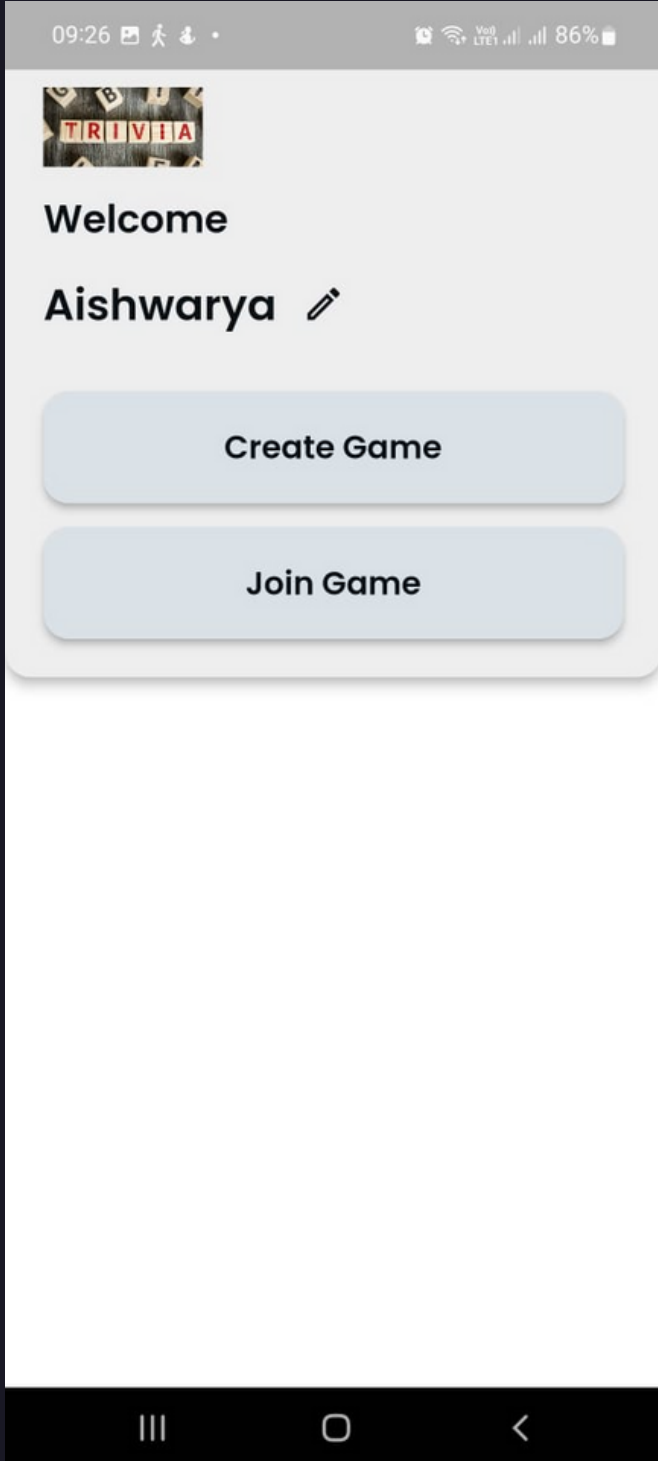
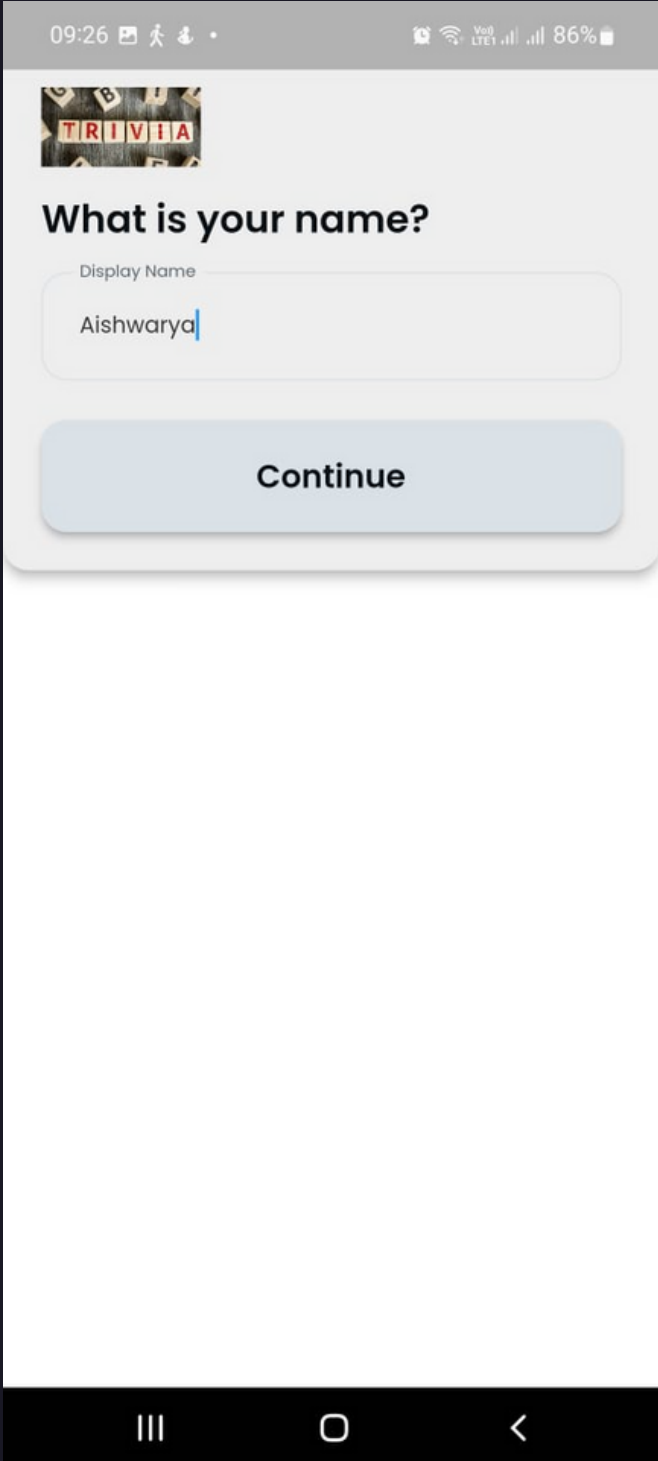
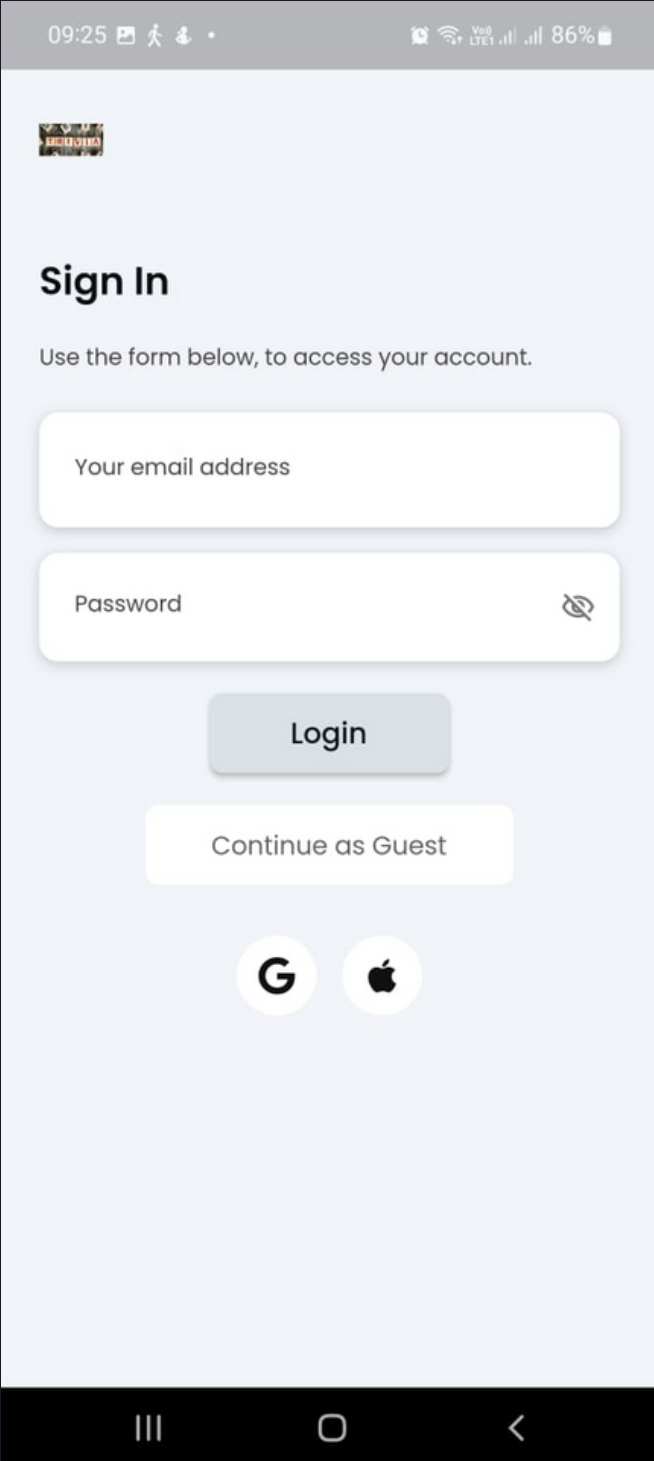
# SonarQube Code smells and Bugs resolved

The screenshot shows the SonarCloud web interface for a project named **CPAD2022SecATeam06**. The left sidebar contains navigation links: Overview, Main Branch, Pull Requests (0), Branches (1), Information, and Administration. The main content area shows the project's summary, including the number of lines of code (184) and the last analysis time (11 minutes ago). The Quality Gate status is **Not computed**. Below this, several metrics are displayed in a grid:

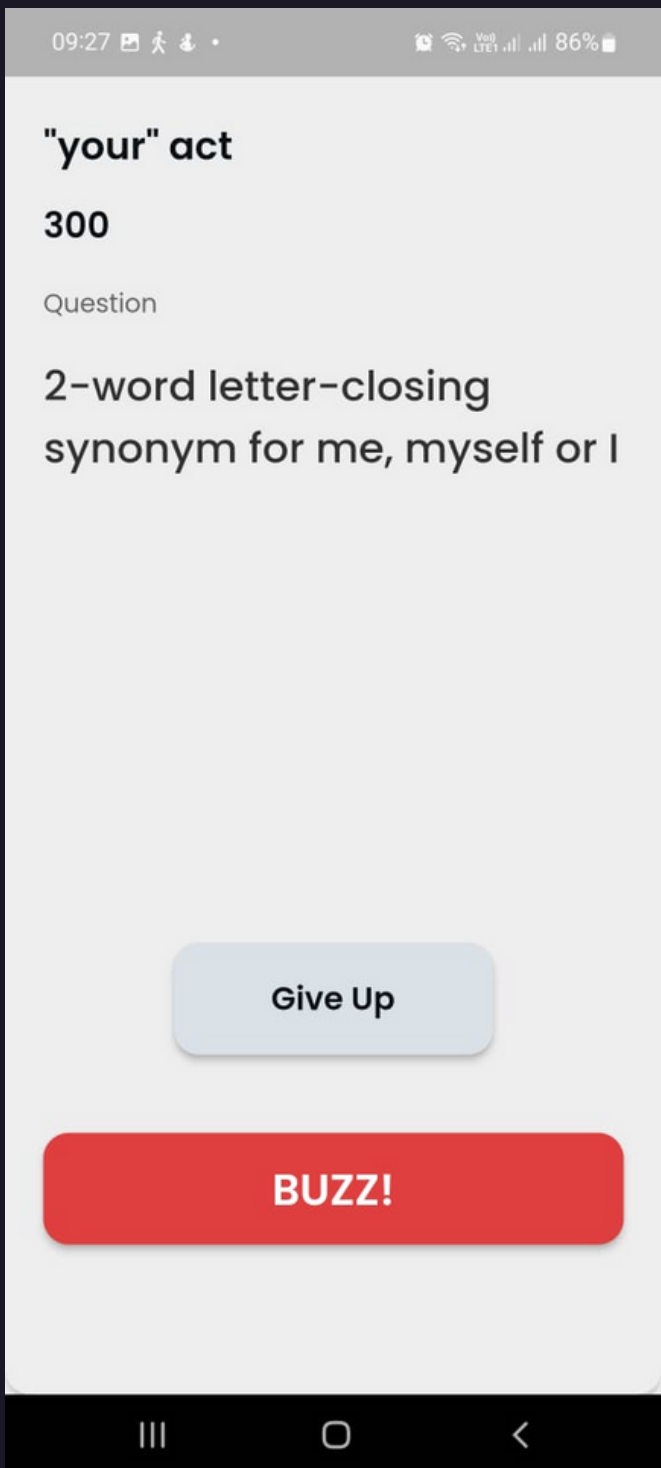
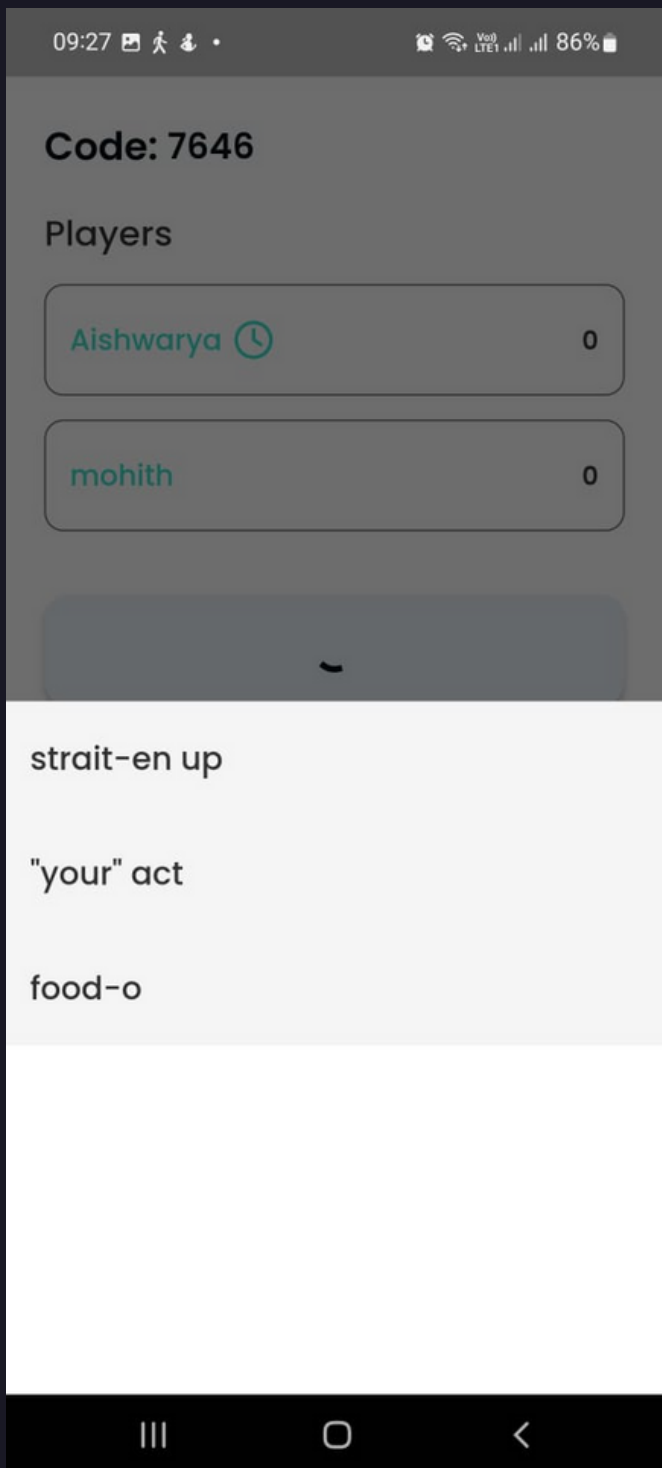
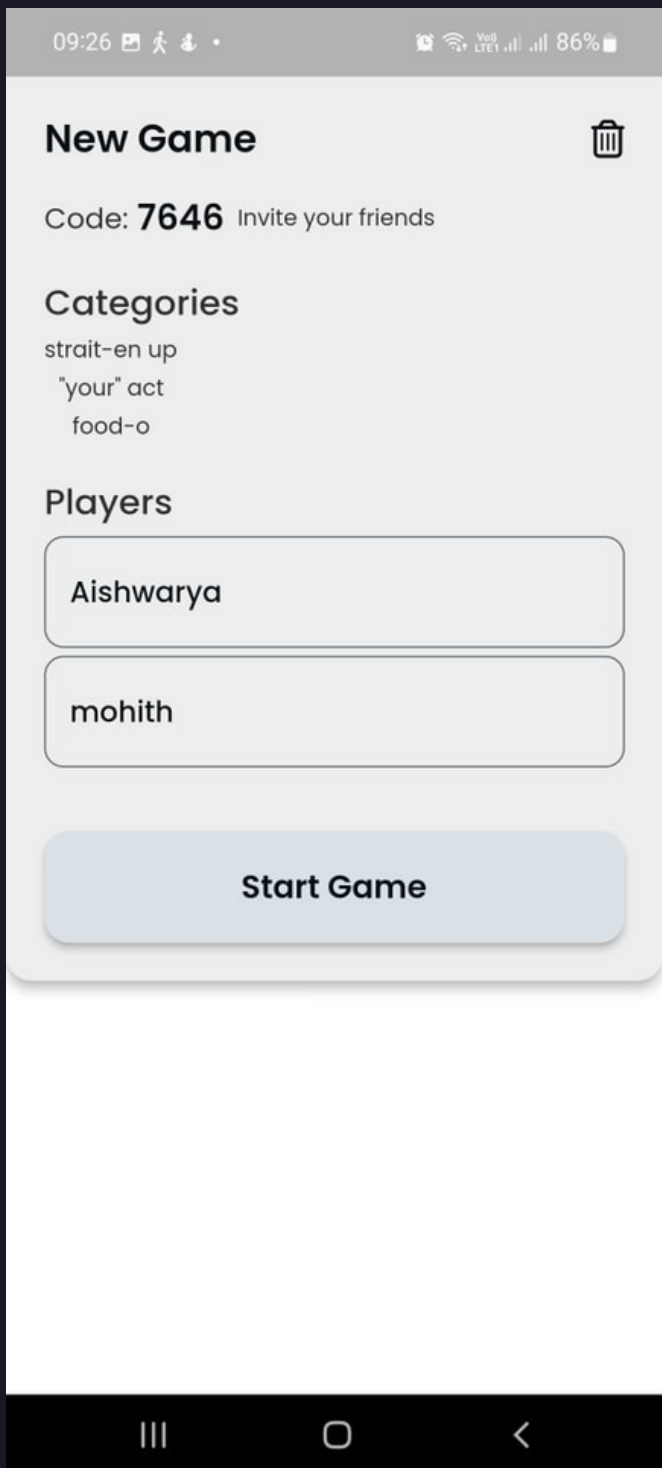
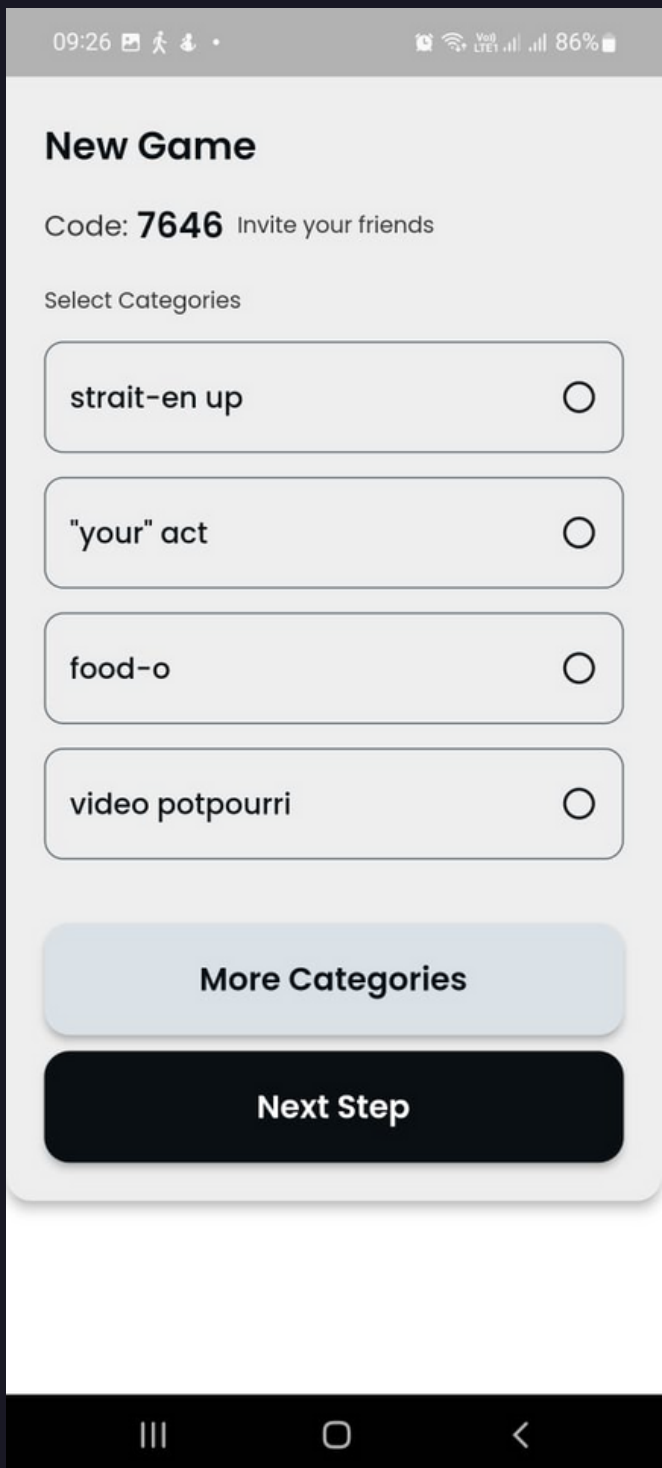
Metric	Value	Grade
Reliability	0 Bugs	A
Maintainability	0 Code Smells	A
Security	0 Vulnerabilities	A
Security Review	3 Security Hotspots, 0.0% Reviewed	E

The bottom of the interface shows sections for Coverage and Duplications. The URL at the bottom is <https://sonarcloud.io>.

# Screenshots of the Application



# Screenshots of the Application



**Thank You**