

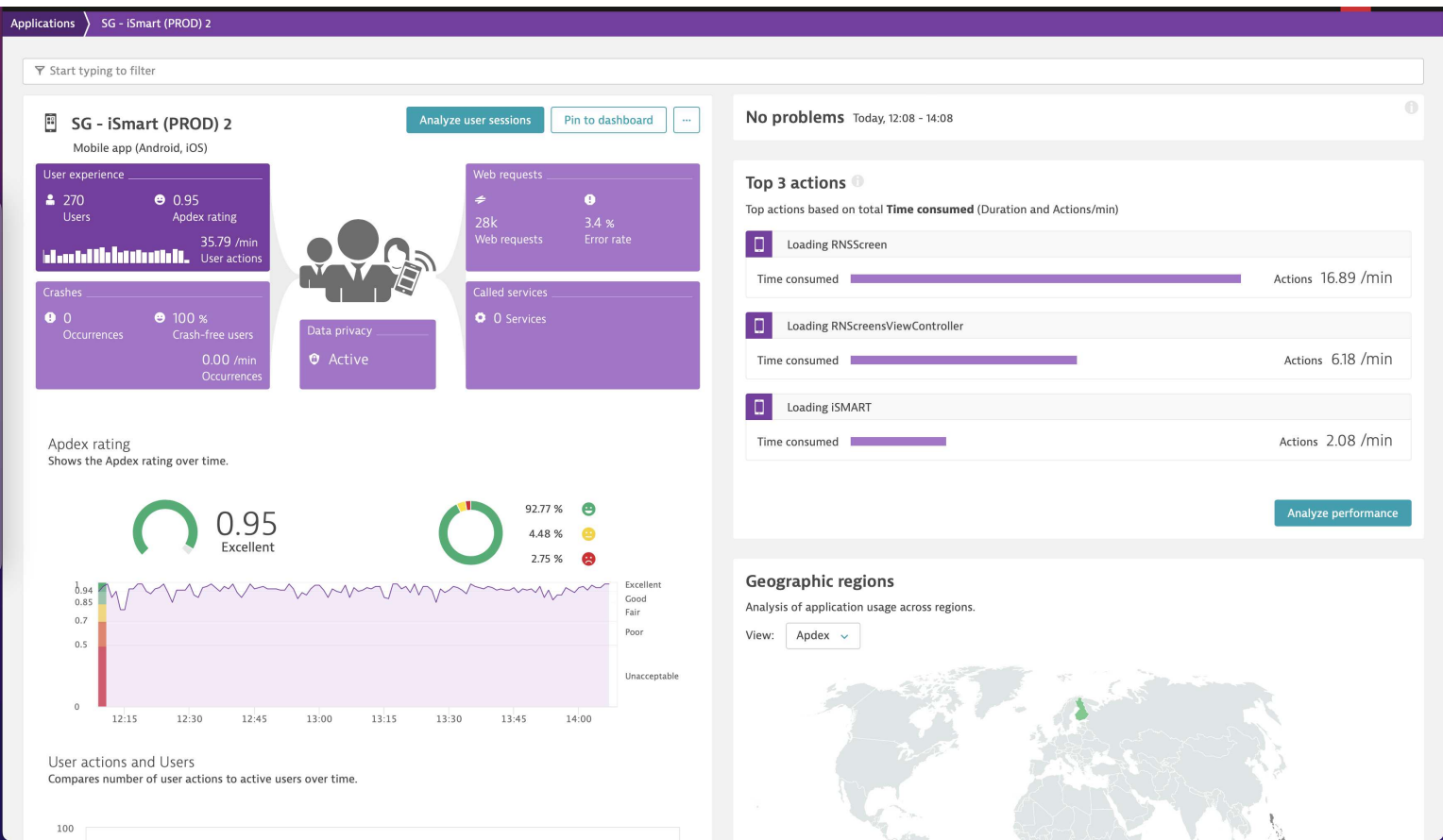
**ISMART**

## **R2 Phases**

## **Delivery**

- New Business Funnel
- Performance Tracking
- Teaming (Day 1, Day 2)
- Customer Portfolio (Day 1)
- Career Benefit
- AAD + SSO Integration
- Home Screen Redesign (Day 1)
- Enhanced Policy View (Day 1)
- Secretary Access (Day 1)

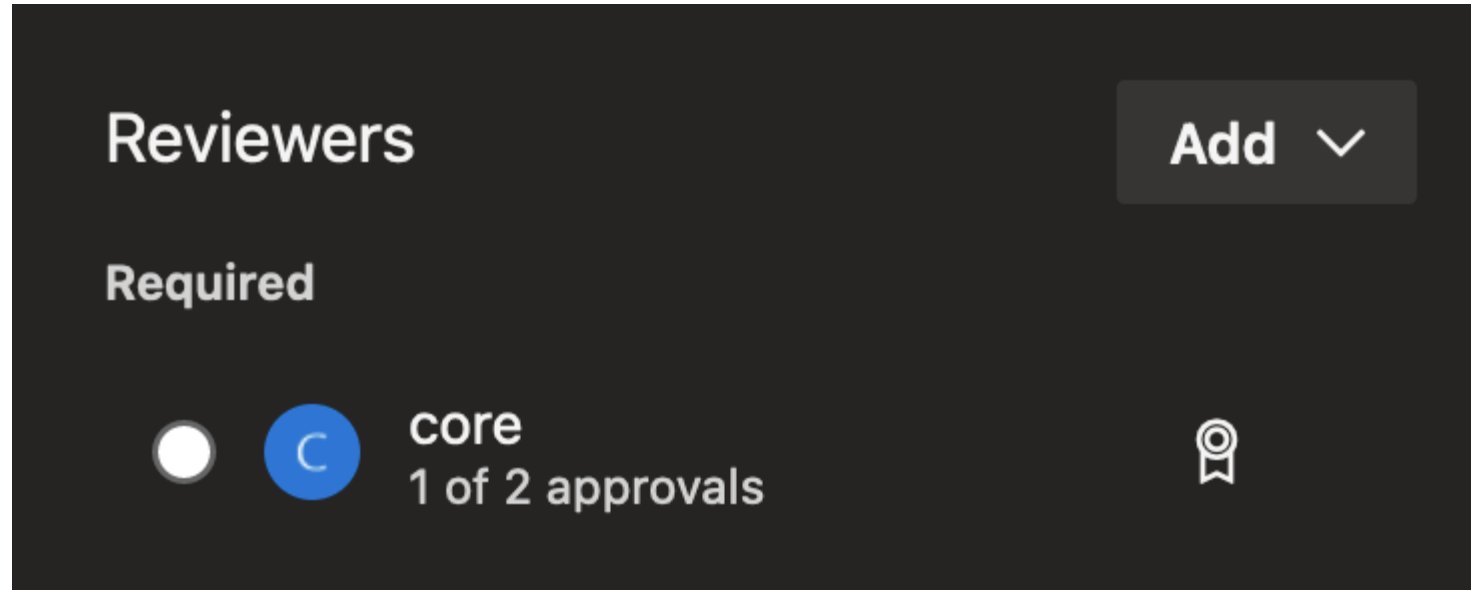
# iSmart Application Performance



# **Engineering Practice**

## Code Review

Using Azure DevOps feature, we can set some requirement to achieve higher quality PRs. These policy are set automatically for every new PR. We require at least 2 review to merge PRs.



## Code Review: Branching Strategies

Modified version of scaled trunk based development.

- master production ready
- develop temporary, reset whenever
- epic/\* branched off from master
- feature/\* branched off from epic/\*
- hotfix/\* branched off master for urgent fixes outside of epic

Use merge commit (non-fast-forward), except from feature/\* to epic/\*.

# Code Coverage: Backend

From 0 coverage (Jan 2021):

```
~/g/i/ismart-server
~/g/i/ismart-server ((ffc6619c...)) [1]> git show HEAD --format="%Cred%h %Cgreen%cd%Creset %s%Creset"
ffc6619 2021-01-15 Merged PR 584: EPR-15542 iSmart - Prod Deployment (FastStart)

~/g/i/ismart-server ((ffc6619c...))> jest --coverage
No tests found, exiting with code 1
Run with `--passWithNoTests` to exit with code 0
In /Users/bentinata/git/ismart/ismart-server
 150 files checked.
   testMatch: **/__tests__/**/*.[jt]s?(x), **/?(*.)+(spec|test).[jt]s?(x) - 0 matches
   testPathIgnorePatterns: /node_modules/ - 150 matches
   testRegex: - 0 matches
Pattern: - 0 matches
~/g/i/ismart-server ((ffc6619c...)) [1]> 
```



# Code Coverage: Backend

To around 57% LoC covered:

```
~/g/i/ismart-server

31 |

at decrypt (app/utils/mycrypt.js:28:11)
at Object.<anonymous> (app/utils/mycrypt.js:9:20)
at Object.<anonymous> (app/api/customersOds.js:6:24)
at Object.<anonymous> (app/models/ods/__tests__/OdsCustomer.test.js:2:14)

(node:16848) [DEP0106] DeprecationWarning: crypto.createDecipher is deprecated.
(Use `node --trace-deprecation ...` to show where the warning was created)
(node:16848) [DEP0005] DeprecationWarning: Buffer() is deprecated due to security and usability issues. Please use the Buffer.alloc(), Buffer.allocUnsafe(), or Buffer.from() methods instead.

===== Coverage summary =====
Statements   : 55.84% ( 397/711 )
Branches     : 29.81% ( 62/208 )
Functions    : 28.93% ( 46/159 )
Lines        : 57.08% ( 379/664 )
=====

Test Suites: 10 failed, 4 passed, 14 total
Tests:       18 failed, 10 passed, 28 total
Snapshots:   2 passed, 2 total
Time:        5.276 s
Ran all test suites.
~/g/i/ismart-server (master) [1]> |
```

# Code Coverage: Frontend

From 0 coverage (Nov 2020):

```
~/g/i/ismart-client
Format from '@util/Format';

SyntaxError: Cannot use import statement outside a module
    at Runtime.createScriptFromCode (node_modules/jest-cli/node_modules/jest-runtime/build/index.js:1350:14)

===== Coverage summary =====
Statements   : Unknown% ( 0/0 )
Branches     : Unknown% ( 0/0 )
Functions    : Unknown% ( 0/0 )
Lines        : Unknown% ( 0/0 )
=====
Test Suites: 6 failed, 6 total
Tests:       0 total
Snapshots:   0 total
Time:        1.84 s
Ran all test suites.
~/g/i/ismart-client ((59cee305...)) [1]> git show HEAD --format="%Cred%h %Cgreen%cd%Creset %s%Creset"
59cee305 2020-11-19 Merged PR 379: 1.5.4
~/g/i/ismart-client ((59cee305...))> 
```

# Code Coverage: Frontend

To around 79% LoC covered:

```
~/g/i/ismart-client
FAIL src/components/agent/___test___/AgentsList.test.js
  ● Test suite failed to run

  TypeError: Cannot read properties of null (reading 'match')

    at getDevServer (node_modules/react-native/Libraries/Core/Devtools/getDevServer.js:30:19)
    at Object.<anonymous> (node_modules/expo/src/environment/logging.fx.ts:14:27)
    at Object.<anonymous> (node_modules/expo/src/Expo.fx.tsx:3:1)

===== Coverage summary =====
Statements   : 76.5% ( 866/1132 )
Branches     : 51.66% ( 372/720 )
Functions    : 74.07% ( 260/351 )
Lines        : 79.36% ( 796/1003 )
=====

Summary of all failing tests
FAIL src/util/MyCrypt.test.js
  ● decrypt with IV (local)

    expect(received).toBe(expected) // Object.is equality

    Expected: "S3644869E"
    Received: ""
```

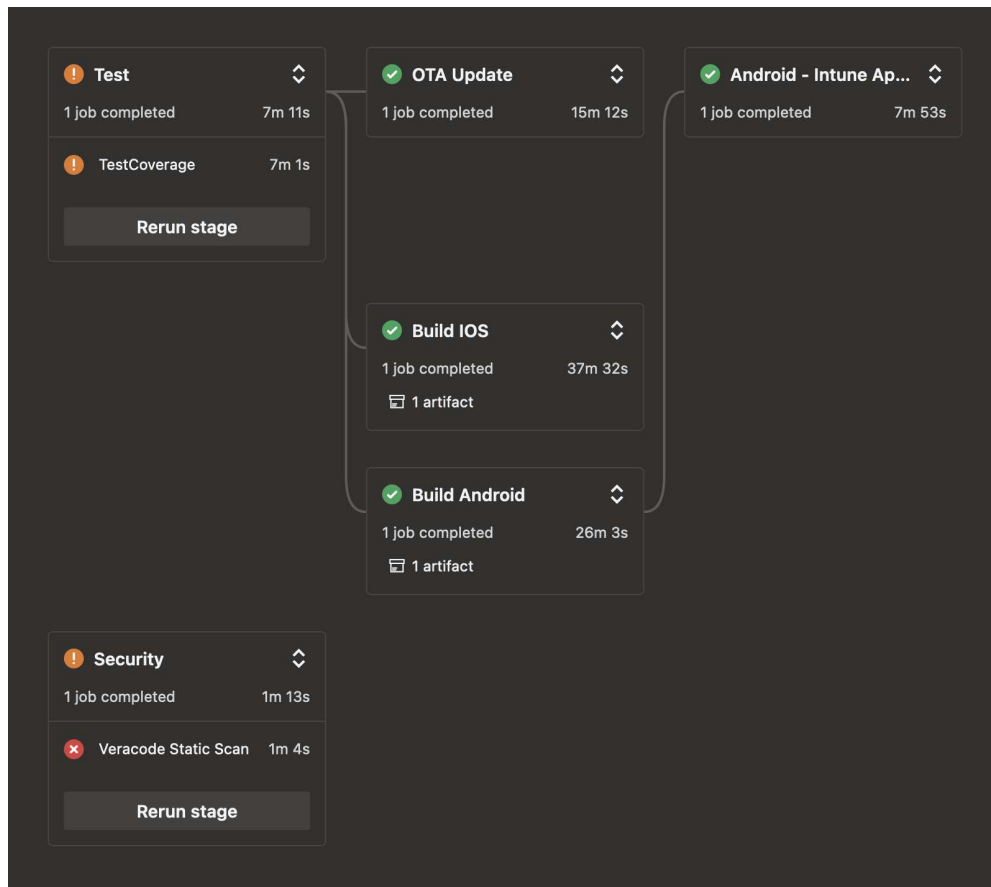
## **Code Coverage: Conclusion**

Not much, but we strive for the better (*80%+ covered*).

# Tech Advancements

- Code coverage improvement
- Integration with Azure Active Directory
- Logging improvement
- `npmjs.com/@aia-sg/fmt`
- Azure Pipelines

# Azure Pipelines: Client Build and OTA Update



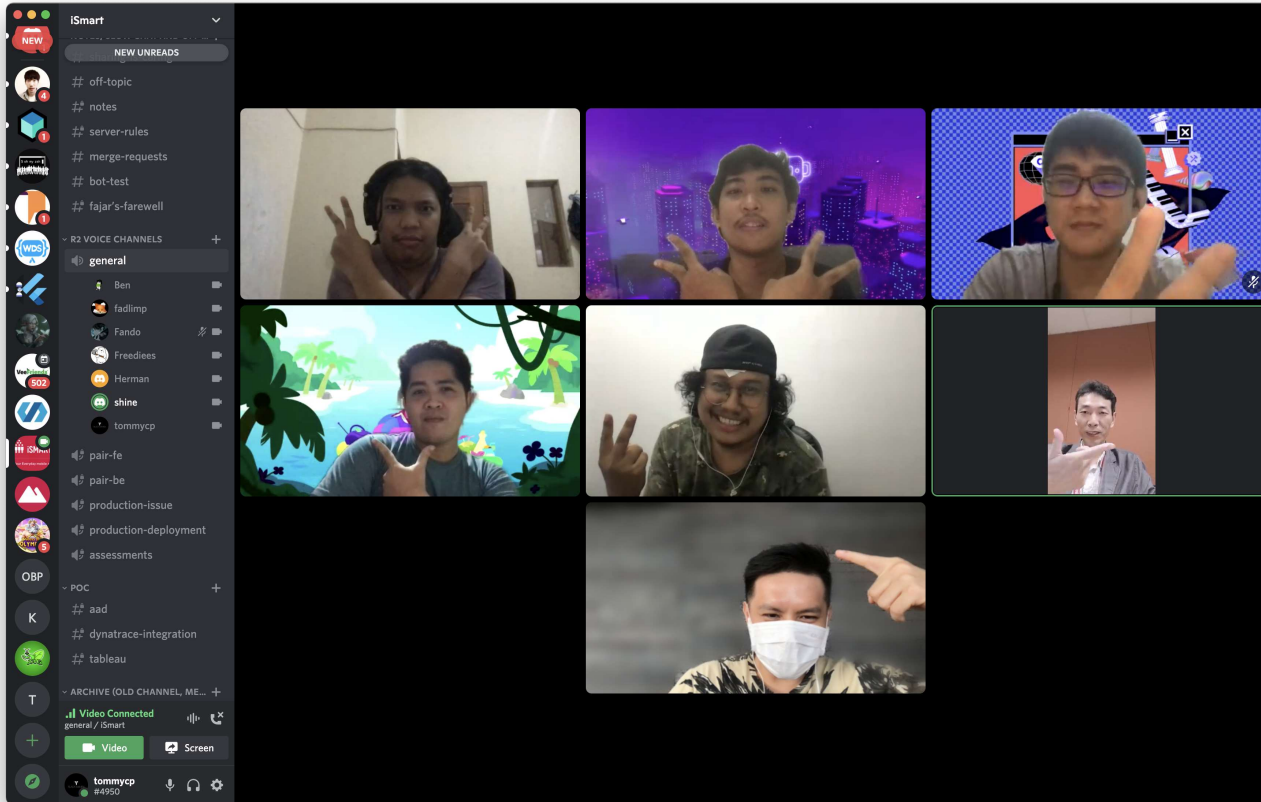
# Team Building

## Weekly (when not busy) sharing session

- [Relationship](#), by Ferdi
- [Mental Health](#), by Fando
- [Starting Your Own Online Shop](#), by Fadli
- [Face Detection](#), by Yunan
- [Git Branching](#), [Iodash](#) and [WSL](#), by Ben
- [Ikigai](#) and [ESLint & Prettier](#), by Tommy
- [Enzyme](#), by Herman
- [YAML](#), by Ariq



# Farewell Ferdi :'(



**But Herman,  
Taufiq,  
Caleb, Ariq,  
and Jul  
Joins!**



Coffee  
addict



Traveler



Very  
good  
cook



Lift  
weights



Can't  
cook