

9News iOS App Assessment

By Aruna Sairam

Key Points:

- Re-usability
- Separation of concerns
- Testability
- Consistency
- Conformance to Apple Human Interface Guidelines

Compatibility:

- Please run in Xcode 13.x (Xcode 14 has a few known issues – mentioned at the end)

Architecture:

- MVVM + Manager + Service
- Coordinator for navigation

Manager:

- Creates and owns a 'Service'
- Layer on top of 'Service' to parse JSON into 'Model' Objects
- Decides whether to retrieve data from the 'Service', 'Memory' or 'Cache'
- Reusable and Testable

Service:

- Communication between a single endpoint
- Does not associate with 'Model'. It is not aware of 'Model'.
- Used only by Manager
- Reusable and Testable

Extra Features: (apart from the requirements of the task)

- Have added menu on the navigation bar to sort the articles by 'Newest to oldest' and 'Oldest to Newest'
- Compatible with both iPhone and iPad, the cells will adjust their size based on the device. Can be viewed in any orientation
- Along with sorting, I have also added 'time elapsed' tag on each cell, that says how long ago an article was published
- Compatible with both dark mode and light mode, and have added
- Have added 'Progress Bar', 'Web Page Title', 'Refresh', 'Share', 'Navigate Forward' and 'Navigate Backward' buttons in the Website View Screen.

- Have added 9news logo on Launch Screen, Home Screen Custom Navigation Bar, and App Icon

Unit Tests:

- 100% Unit test coverage
- Have written the test cases to both 'success' and 'failure' scenarios of each function
- Have written comments in documentation style before each test case (Clicking on the function will show it's documentation on the right-hand side)
- Have used mock JSON files for 'news article (asset)' mocks.

UI Tests:

- Tests for News List Collection View
- Tests to check for 'Thumbnail', 'Headline', 'By Line', 'Abstract' and 'Elapsed time'
- Test to check '9News logo on the navigation bar'
- Tests for Web View Screen
- Tests for UI elements in Web View Screen
- Tests for interaction and navigation between Collection View and Web View

Known Issues (Xcode bug):

- There is a bug in Xcode, which says "[Security] This method should not be called on the main thread as it may lead to UI unresponsiveness." In the console. It is a known bug in Xcode and has been reported in Apple Developer forums. We can ignore this message in the console.
- Xcode 14 also has problems running UI Tests sometimes, hence please use Xcode 13.x

Git:

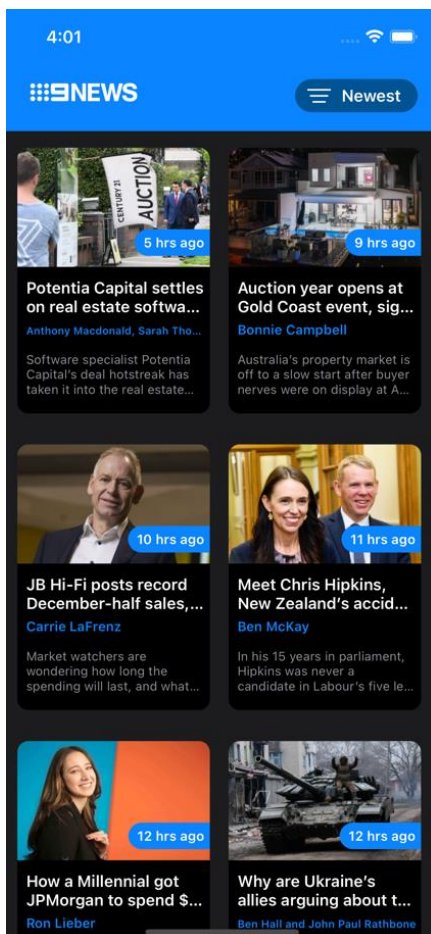
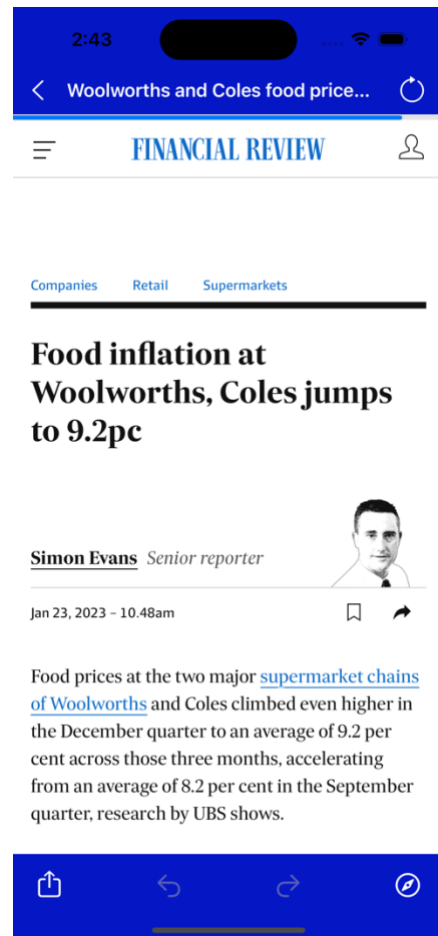
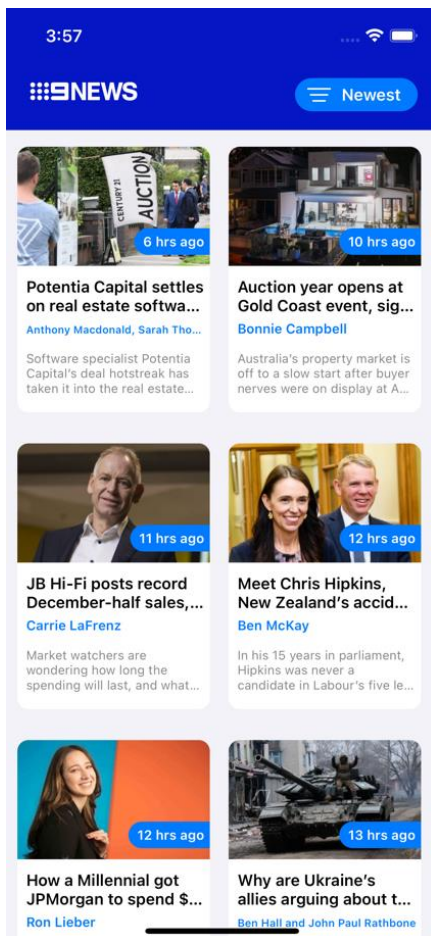
The feature branches have been merged into 'main'. The 'main' branch is up-to-date.

Repository link:

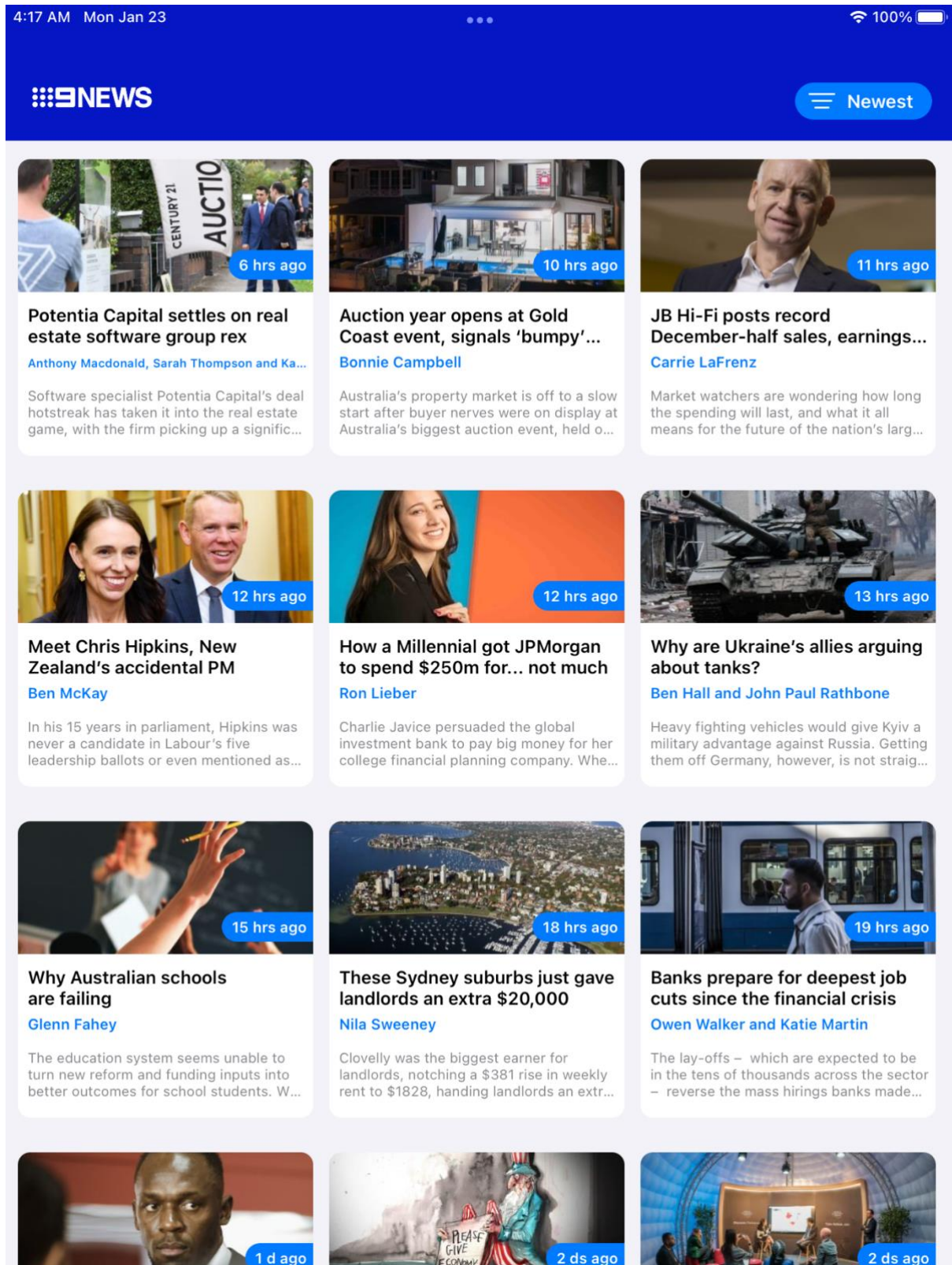
<https://github.com/arunasairam/NineNews.git>

iPhone and iPad screenshots in next pages

iPhone Screenshots



iPad Screenshot





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Aaron Patrick*Senior correspondent*

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