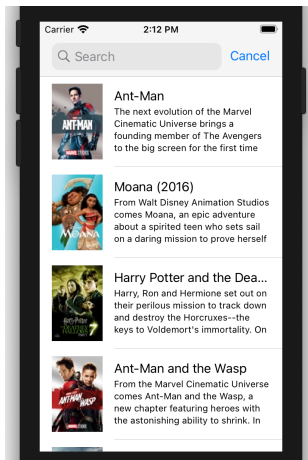


iOS Code Task: iTunes Movie Searcher



You've been asked to debug an iOS app that will search for movies using the iTunes Store API.

The app will allow us to type in a keyword and then visualize all the movies matching that keyword.

For each movie returned, the app will display its title, poster, and overview (short summary of the plot).

The app uses the search API provided by

<https://affiliate.itunes.apple.com/resources/documentation/itunes-store-web-service-search-api/>

Reported Issues

- Users are reporting some results are missing required data
- Users are reporting the app is crashing while searching

Hard Requirements

- The code needs to compile and run in the simulator
- The app will allow us to type in a query and then see all the movies returned by the API for that query
- Each result displayed must display that movie's
 - title
 - poster
 - short summary
- The code should not crash under normal usage (searching, scrolling, rotation)
- The code should contain no third party libraries

Secondary Improvements

- Improvements to the App's architecture
- The code should be easy to review
 - Be consistent in coding style
 - Write comments where necessary
- The code should be performant
 - Thread management
 - In-memory image caching
 - Placeholder for unloaded images
- The existing unit tests should cover core business logic