

Roku Coding Challenge

1. Goal

Build a simple Roku application to demonstrate knowledge of critical concepts: - API usage and data representation - Scene Graph component usage - Video playback - App navigation We are looking to determine how you problem solve, and use the resources available to you without significant time constraint or emphasis on pixel-perfect design. There are multiple ways to do this, however we encourage thought put into simplicity, maintainability, and good project and app structure.

2. Instructions

Please read through the rest of the requirements and additional info before working on your app.

You can use third party libraries, but the more code you write yourself, the better.

You have **3 days** to submit your code, however we want to be respectful of your time and do **not** expect you to work for more than **2 hours** on this challenge.

When you are complete please provide a link to your GitHub where the project should be uploaded, and a video recording of the application in action.

3. Basic Requirements

- Using the public Marvel Comics APIs <https://developer.marvel.com/docs>
 - If this API is down (as has been the case before), stub in a reasonable response of local JSON data that represents a list of at least 5 comic books with an associated title, thumbnail, list of characters (does not need to be comic accurate), character name, and character description
- Build an application which displays a scrollable grid of comics represented by their "thumbnail" image using https://developer.marvel.com/docs#!/public/getComicsCollection_get_6.
- Upon selecting a comic item from the grid, open to a new screen which displays the list of characters for that comic using https://developer.marvel.com/docs#!/public/getComicCharacterCollection_get_8,

and arrange in a vertically scrollable list using the corresponding "thumbnail", "name", and "description" to represent each character.

- Upon selecting a character, open to a new screen which uses the native Roku video player to play this video - <http://commondatastorage.googleapis.com/gtv-videos-bucket/sample/BigBuckBunny.mp4> (since Marvel doesn't make their video content free, this will have to do.. if you find a way to publicly retrieve Marvel content... do let us know!)

Evaluation Criteria

- Understanding of core Roku concepts
- Optimized and performant code
- Understanding of the Roku library
- Code and component reuse/extensibility
- Code design
- Ability to write clear documentation