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## **Software Engineer Technical Assignment**

We provide information about programs and apps to several services through our Catalog API ecosystem. The core information about apps can be found in the "Apps API" and the information about the authors can be found in the "Developers API". Each API returns the information with a specific format, that can be found in the [source-api-outputs](https://drive.google.com/open?id=0B3RyAIHe54RebXd0cHdhbGtqdjg) zip file.

Write a API service that given an app **id** returns its information with the following format:

{  
 "id": "21824",  
 "author\_info": {  
 "name": "AresGalaxy",  
 "url": "https://aresgalaxy.io/"  
 },  
 "title": "Ares",  
 "version": "2.4.0",  
 "url": "http://ares.en.softonic.com",  
 "short\_description": "Fast and unlimited P2P file sharing",  
 "license": "Free (GPL)",  
 "thumbnail": "https://screenshots.en.sftcdn.net/en/scrn/21000/21824/ares-14-100x100.png",  
 "rating": 8,  
 "total\_downloads": "4741260",  
 "compatible": "Windows 2000|Windows XP|Windows Vista|Windows 7|Windows 8"  
}

**Considerations**:

* Currently, we are importing the data from 2 APIs: apps and developers. The output format is JSON. An example output is in the [source-api-outputs](https://drive.google.com/open?id=0B3RyAIHe54RebXd0cHdhbGtqdjg) zip file.
* We plan to add more information from a third API soon, that will provide the information as XML (you don't need to implement this, just keep it mind).
* In the future we want to also serve the app information in a command line application (you don't need to implement this, just keep it mind).
* The focus here should be on design, more than implementation or performance. We are less interested in seeing that this works than in seeing how you approach the problem.
* You can use any programming language, libraries and frameworks that you need, but keep in mind the position you're applying to. (Our prefered languages are PHP, Node.js and Javascript)
* Please provide at least some unit tests (it is not required to write them for every class). Functional tests are also a plus.
* Please provide a short summary as SUMMARY.md detailing anything you think is relevant, for example:
  + Installation steps
  + How to run your code / tests
  + Where to find your code
  + Was it your first time writing a unit test, using a particular framework, etc?
  + What would you do to improve the performance/scalability?
  + What would you have done differently if you had had more time
  + Etc.

Please send us a git bundle with your code. You can create a git bundle using git bundle create your\_project\_name.bundle --all