

revsoftware com



## **Backend Developer Test**

The "Movie API" Test

## Build an API which achieves the following:

- Provides a user / password authentication mechanism which exchanges correct user / password for a secure token of some kind.
- 2. Is secured with a token for any request to an endpoint other than the authentication endpoint and root url (via middleware).
- 3. Provides a read / write API for the following domain:
  - MOVIE
    - Name
    - **GENRE**
    - Associated ACTORS (and the name of the character they play)
    - Rating
    - Description
    - **Image**
  - **ACTOR** 
    - Name
    - Birth Date
    - Age
    - Bio
    - **Image**
  - **GENRE** 
    - Name
    - MOVIES in this genre
    - ACTORS in this genre
- 4. Provides a method for uploading imagery of movies and actors.
- 5. Ships with migrations and seeders.
- 6. Provides documentation via API Blueprint or Swagger (you can either include this in your project, or publish it via a free account on https://apiary.io/). If you use swagger, please include instructions for rendering the doc.
- 7. Implement a testing mechanism.

## Bonus points (required for senior applicants, optional for others):

- Implement a system that allows logged in users to "favourite" movies.
- Implement a rate limiting mechanism.
- Consider how thumbnails may operate for imagery either implement a method for this or write a small doc on how you might achieve this.
- Implement a test suite to test the API implementation against the swagger or blueprint specification.
- Implement unit tests.
- Make it possible to launch the entire project, create and seed database etc. with no external dependencies other than docker / docker swarm by executing a single command line call (aka dockerise everything including the db, auto migrate, auto seed) and provide instructions to launch.

## Items to pay attention to:

- HTTP Status Codes
- HTTP Verbs
- Response transformation (e.g. http://fractal.thephpleague.com/)
- Validation and errors (You probably shouldn't be able to save an author without a name)
- Code quality and documentation
- Response types should be in json
- Developer Experience (e.g. listing endpoints when you go to api root, providing errors if unacceptable content types are given etc)
- The experience for the person reviewing your code include read me, commands to speed up activation etc.