Summary

This challenge is designed to put your skills to the test by designing and building a good RESTful API to manage a small movie rental.

Time frame

Max 7 days.

Requirements

- 1.Only users with admin role are allowed to perform the following actions:
- 2.Add a movie
- 3. Modify a movie
- 4. Remove a movie
- 5.Delete a movie
- 6.Movies must have a title, description, at least one image, stock, rental price, sale price and availability.
- 7. Availability is a field of movies, which may only be modified by an admin role.
- 8. Save a log of the title, rental price and sale price updates for a movie.
- 9.Users can rent and buy a movie. For renting functionality you must keep track when the user have to return the movie and apply a monetary penalty if there is a delay.
- 10.Keep a log of all rentals and purchases (who bought, how many, when).
- 11.Users can like movies.
- 12. As an admin I'm able to see all movies and filtering by availability/unavailability.
- 13.As an user I'm able to see only the available movies for renting or buying.
- 14. The list must be sortable by title (default), and by popularity (likes).
- 15. The list must have pagination functionality.
- 16. Search through the movies by name.

Security requirements

- 1.Add login/logout functionality.**Preferably JWT.**
- 2.Only admins can add/modify/remove movies.
- 3. Only logged in users can rent and buy movies.
- 4.Only logged in users can like movies.
- 5. Everyone (authenticated or not) can get the list of movies.
- 6. Everyone (authenticated or not) can get the detail of a movie.
- 7. Publish your work using heroku and share the link with us.

Extra credit

1.Recovery and forgot password functionality (send email).

- 2.Confirming account (send email)
- 3. Build a small frontend app and connecting to the API.
- 4.As an user with admin role I want to be able to change the role of any user.
- 5.Unit test, at least 80% of coverage.
- 6.Include a dockerfile for production deployments.

Keep in mind

- •You are free to use any package, library and weapons for the battle as long as you can justify their use.
- •You may use any kind of database you like.
- •Provide a database dump so we can replicate the database locally.
- •POSTMAN will be used to evaluate the API. It would be great if you can provide us with a collection to test your API.
- •Follow best RESTful API practices. Take a look on this guide https://www.vinaysahni.
- •Use git and do small commits to facilitate the evaluation of progress.
- •Include a **readme.md** file with instructions on how to setup your project locally to test it. (This is super important, if we cannot install it and run it easily we cannot evaluate it).
- •Upload your solution to your Github or Gitlab accountand share a link with your evaluator.
- •The test has been designed with enough time to do a good job, so don't cut any corners, take your time and watch for quality. We evaluate code readability, comments, formatting, performance and re-usability.