



# Case Study – Star Wars Android Challenge

*For the position “Android Engineer”*

Hello and welcome to your case study! We are curious to see your brain in action and have prepared a task for you to solve. Our hiring team is looking forward to your results!

## Purpose

As an Android Engineer at trivago, you are going to work together with your colleagues to maintain and improve our Hotel Search app. Discussing and making decisions on technical and architectural topics plays a big part in that. For that reason, the task below gives you a lot of freedom on how to approach it technically, and if you have fun solving this case study you are most likely on the right track!

As you will notice, not every single detail necessary to come up with a solution is included in the tasks. We are mostly interested in understanding your process of thought, so make your own assumptions when you feel it is necessary and do not forget to write them down in your answer. We’re looking forward to getting your response and hope you can derive some learnings and joy from doing this assignment.

## Deadline for Submission

Please make sure that you submit your results within **7 days** after receiving. We would like to ask you to also grant us the same time to evaluate your results after submission.

## Delivery Format

Please submit your results via the link provided in the email from your recruiter. There you can upload your files (source code and read.me file) in a zip folder named in the format **SURNAME\_NAME**.

Do not share the case study and/or the results with third parties. Do not upload the case study and/or results to social platforms or other public spaces.



## The Challenge

Implement a small but scalable (!) app which interacts with the open Star Wars API at <https://swapi.dev/>.

The app should contain 2 main areas:

- Character Search (Home Screen)
- Character Details

The following attributes should be displayed for the character details:

- name
- birth year
- height (in cm and feet/inches)
- name (species)
- language (species)
- homeworld (species)
- population (planets)
- films (movies the character appeared in)
- opening crawl (detailed description of each movie)

## Expected user flow

On app start, the user lands on the character search screen.

The user can search for characters from the Star Wars universe. The result of the search should display a character list.

When tapping on a character, details are displayed as defined above.

## Technical requirements

Please use Kotlin as the project language. The design of the UI, usage of 3rd party libraries and supported API level are simply your choice, with exceptions mentioned in the resources section. That said, *don't forget to approach this like a project that has to scale*, so your project should include a modern architectural approach, unit tests, dependency injection and whatever else you consider important.

*(please see next page)*

## Documentation

Do not share the case study and/or the results with third parties. Do not upload the case study and/or results to social platforms or other public spaces.



As part of the deliverable, please add a read.me file documenting your decisions (e.g. design patterns, 3rd party library choices). This will help us understand your thought process and can fuel further discussions during the interview process. *Please be aware that your documentation and explanations will be a big part of our evaluation.*

Good luck and we are looking forward to seeing your results!