

# Cloud Ready Hack

## Share&Care Case - Overview

Your team is part of the fictional company Share&Care which is also the name of their new, rapidly growing social network primarily focused on supporting worthy causes worldwide.

When Share&Care founders started the company a few years ago, their vision was to connect worthy causes with people willing to help, and they intended to do that by creating a social network where these two could meet. That being said, they were driven by their vision but lost sight due to the technology burden that came with the exponential growth of their user base.

Even though reaching out to new users has been seen as a great accomplishment, it created many usability issues with Share&Care. The main problem is that Share&Care often becomes unusable due to many users interacting with lots of content.

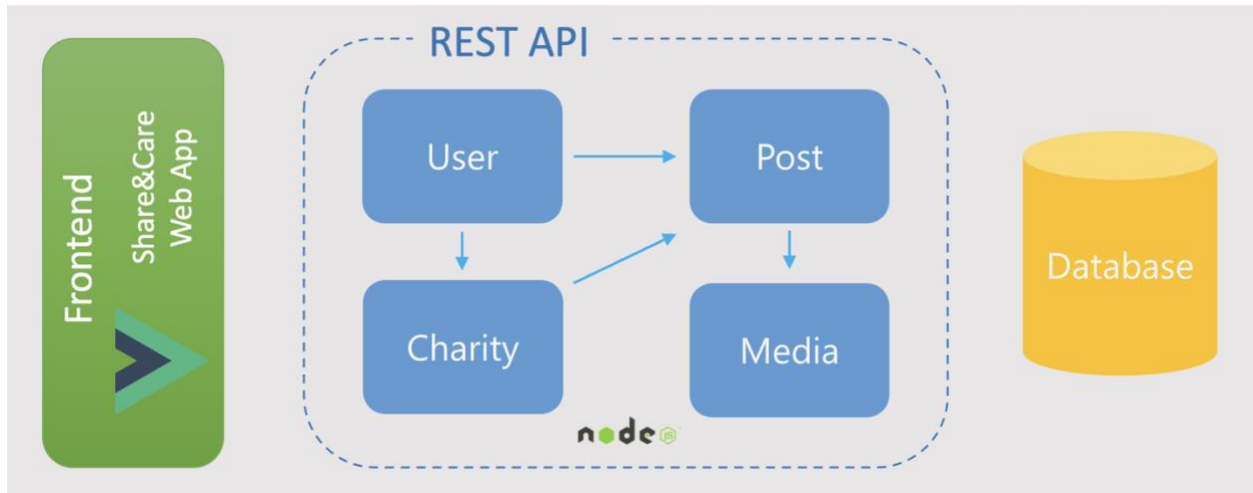
Luckily, business decision-makers know that to continue empowering their vision, they need to be on the verge of modern technologies, always using cutting-edge technology to provide the best user experience possible.

Recently, some fresh blood came to the Company Board as they were seeing pressure from existing users and knew they had to change things to keep fulfilling their vision. To do that, they needed to know where to start, and they are more than happy to rely on your team - a team of experts.

You are aware that you need to tear everything apart and reuse bits and pieces for new microservice architecture where you will automate as many processes as possible and implement good software practices such as: creating, using, and maintaining code repositories, implementing software testing processes in the application lifecycle, containerizing microservices, implementing CI/CD, etc. You decided to go with Microsoft Azure as your public cloud provider for all the above.

The Share&Care application, once a monolith, has been refactored into several microservices written in NodeJS. Application consists of 5 parts:

- **Share&Care WebApp:** Your customers use this web application to log in and use the social network. Users' interactions (raising awareness and getting funds via posting about a particular charity) are manifested against the APIs within your environment.
- **Charity API:** The user, through the web application, can create their charity, and the charity is connected to any post about that same charity. Charity API can list charities, add funds to a specific charity, and get or change the status of a particular charity.
- **Posts API:** This API refers to the posts the user created for a charity.
- **Media API:** This API is used by the post created by the user that refers to a specific charity.
- **User API:** The application uses this API to create and modify the users.



For your reference, the working version of the solution can be accessed here:

<http://sharecare.tipuric.com>.

Ready to jump on the cloud-native development journey? Proceed to Challenge 1.