

# Ryde Back-end Developer Test

Make sure you read the whole document carefully and follow the guidelines in it.

## Context



Build a RESTful API that can **get/create/update/delete** user data from a persistence database

## User Model

```
{
  "id": "xxx",           // user ID
  "name": "test",        // user name
  "dob": "",             // date of birth
  "address": "",         // user address
  "description": "",     // user description
  "createdAt": ""        // user created date
}
```

## Requirements

### Functionality

- The API should follow typical RESTful API design pattern.
- The data should be saved in the DB.
- Provide proper unit test.
- Provide proper API document.

### Tech stack

- We use Python, Nodejs, Go & PHP
- Use any framework.
- Use any DB. NoSQL DB is preferred.

### Bonus

- Write clear documentation on how it's designed and how to run the code.
- Write good in-code comments.
- Write good commit messages.

## Advanced requirements

*These are used for some further challenges. You can safely skip them but feel free to try out.*

- Provide a complete user auth (authentication/authorization/etc.) strategy, such as OAuth.
- Provide a complete logging (when/how/etc.) strategy.
- Imagine we have a new requirement right now that the user instances need to link to each other, i.e., a list of “followers/following” or “friends”. Can you find out how you would design the model structure and what API you would build for querying or modifying it?
- Related to the requirement above, suppose the address of user now includes a geographic coordinate(i.e., latitude and longitude), can you build an API that,
  - given a user name
  - return the nearby friends

## What We Care About

Feel free to use any open-source library as you see fit, but remember that we are evaluating your coding skills and problem solving skills.

Here’s what you should aim for:

- Good use of API design best practices.
- Good testing approach.
- Extensible code.

## FAQ

Where should I send back the result when I’m done?

Create a Git repo and send us the link.

What if I have a question?

You can always contact us.