

## Tax code Service

Write an application exposing a JSON API over HTTP that allows a client to extrapolate data from a tax code string.

For simplicity, please consider only Italian tax codes. You can find more about Italian tax codes here: [https://it.wikipedia.org/wiki/Codice\\_fiscale](https://it.wikipedia.org/wiki/Codice_fiscale)

Example:

```
{"taxCode": "RSSMRA75L01H501A"} => {"gender": "male", "dateOfBirth": "01/07/1975" ...}
```

You may use any programming language and framework of your choice.

Also write an API that does the opposite. Given the required data, it produces a valid Italian taxCode.

Example:

```
{"name": "Mario", "surname": "Rossi", "dateOfBirth": "01/07/1975", ...} => {"taxCode":  
  "RSSMRA75L01H501A"}
```

Please write any code you deem necessary for the application to work correctly and to prove it does.

Also, please include a brief guide on how to run and use the software.

You can deliver the code using any free available repository and giving us access to it, or (if sufficiently small) via email.