

**LET'S GO  LUTTER**

***5. POST API/CHIAMATE\_HTTP***



**the  
Communities Bay**

# Federico Parezzan

Java Developer



Sviluppatori Flutter



federico-parezzan



parez93



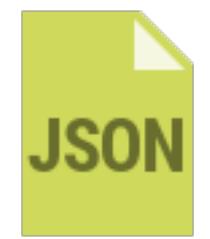
parezzan.com



thecmmbay.com

*Sono un essere umano, nulla che sia umano mi è estraneo ~ Terenzio*

# Agenda



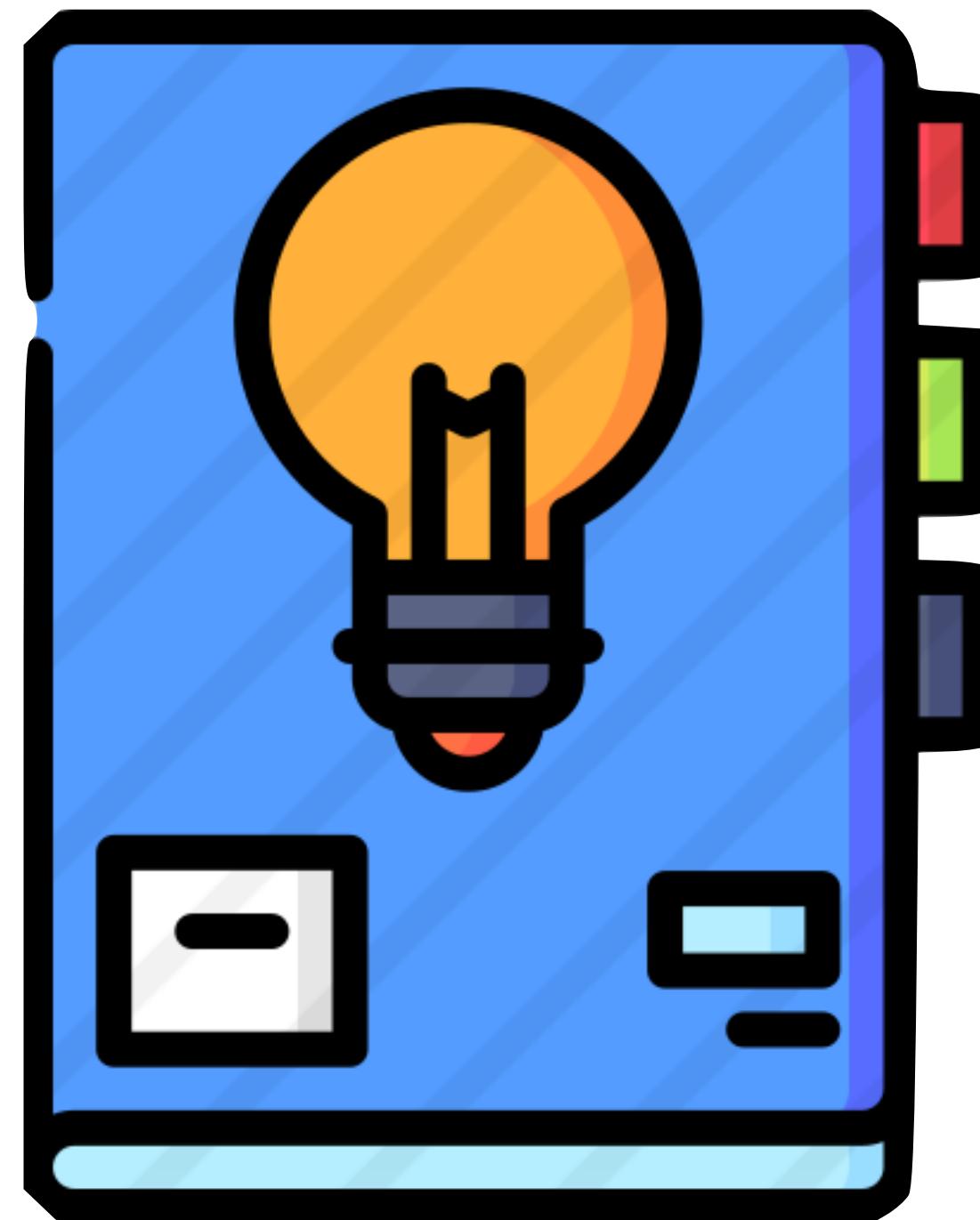
Decoding and encoding JSON



Generator for encoding and decoding



Http package



# JSON in Flutter

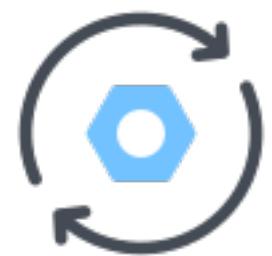
# What is JSON?

**JavaScript Object Notation**, is an open-standard format used on the web and in mobile clients.

It's the most widely used format for REST-based APIs

```
{  
  "firstName": "John",  
  "lastName": "Smith",  
  "isAlive": true,  
  "age": 27,  
  "address": {  
    "streetAddress": "21 2nd Street",  
    "city": "New York",  
    "state": "NY",  
    "postalCode": "10021-3100"  
  },  
  "phoneNumbers": [  
    {  
      "type": "home",  
      "number": "212 555-1234"  
    },  
    {  
      "type": "office",  
      "number": "646 555-4567"  
    }  
  "children": [],  
  "spouse": null  
}
```

# The built-in package

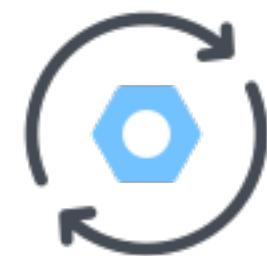


Package `dart:convert`

`json.decode`

`json.encode`

# The built-in package



Package `dart:convert`

`json.decode`

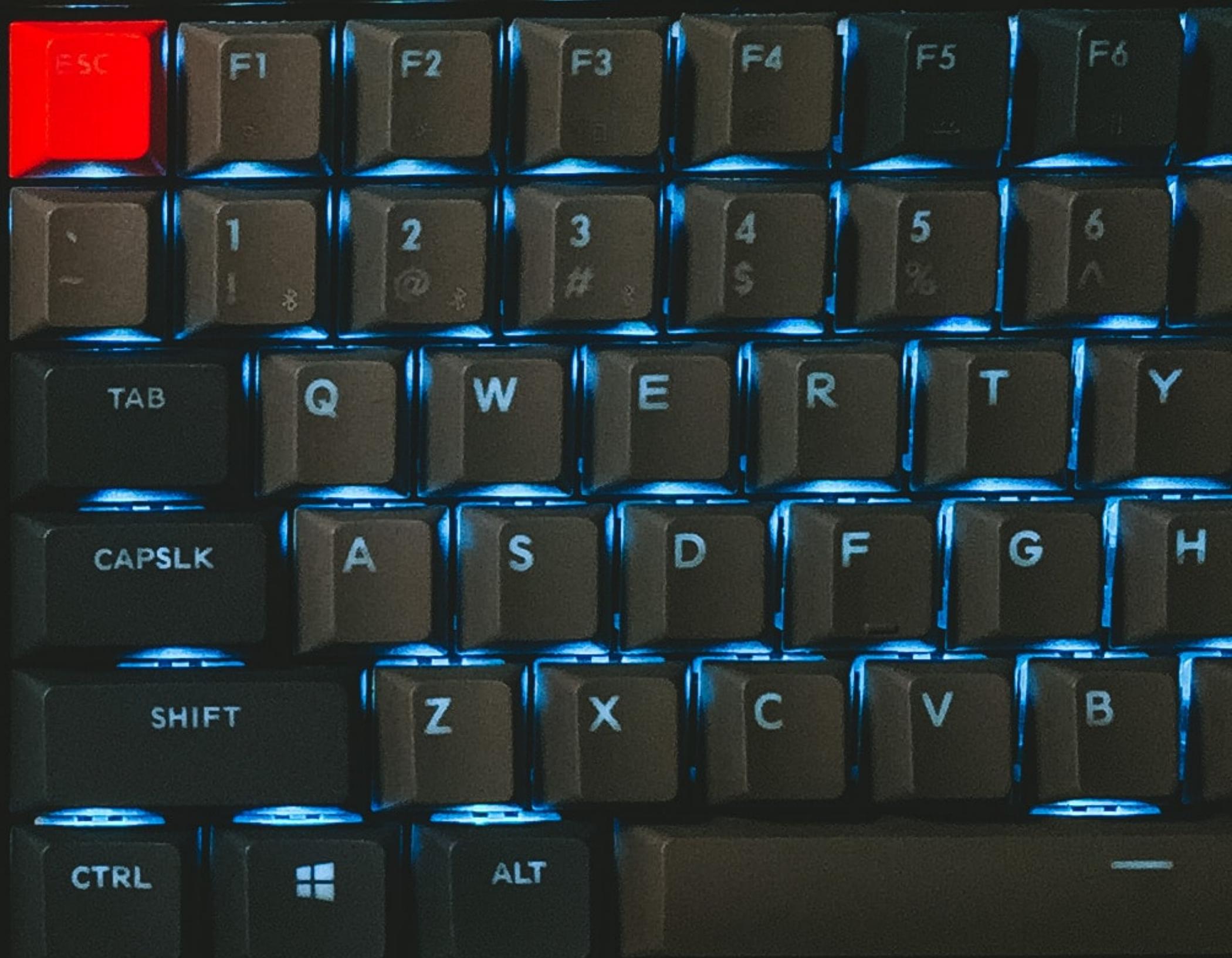
`json.encode`



You have to write so much code!



# DEMO



# Automating JSON serialization

1

Adding the necessary dependencies

json\_annotation

build\_runner

json\_serializable

# Automating JSON serialization

- 1 Adding the necessary dependencies
- 2 Creating model classes

# Automating JSON serialization

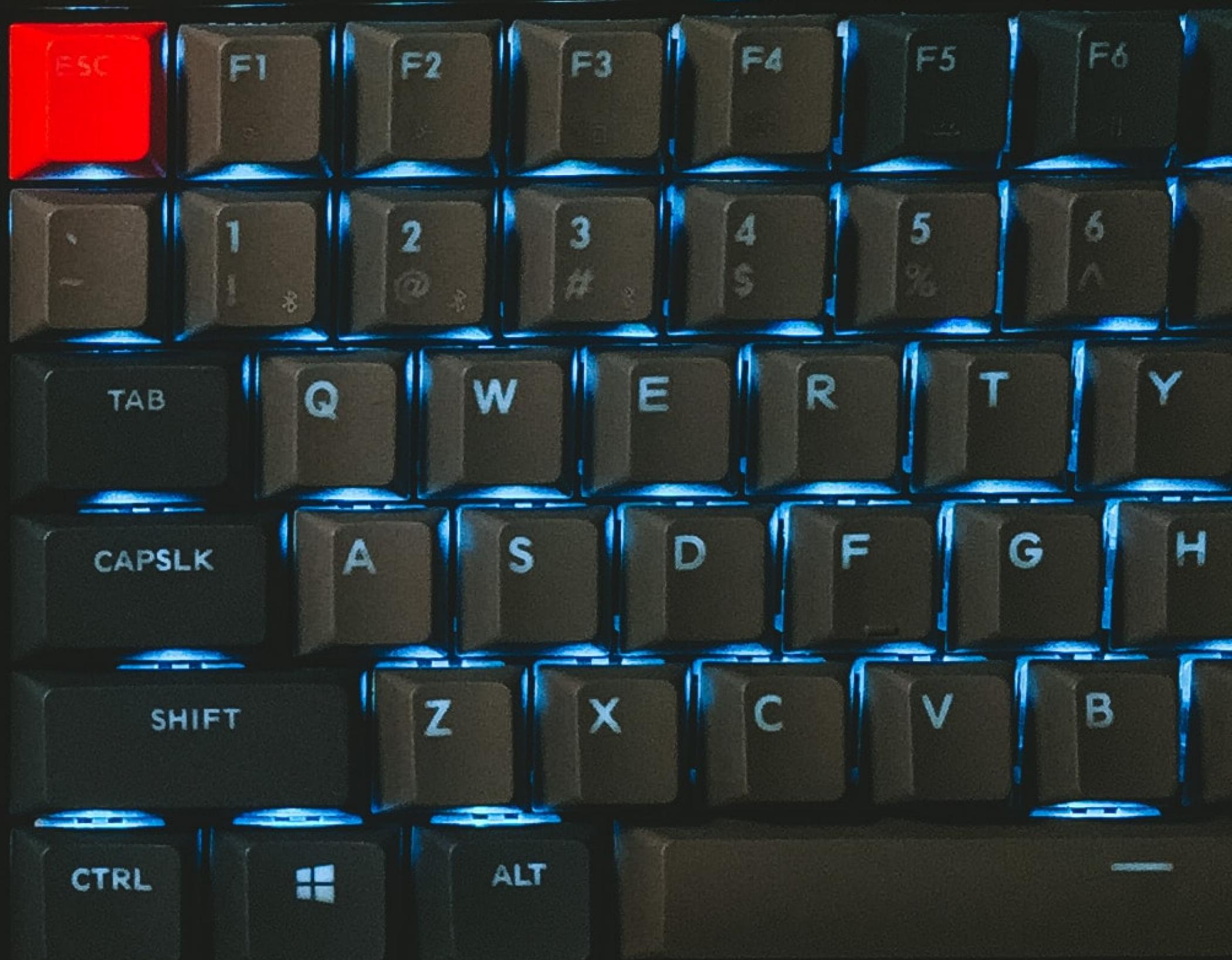
- 1 Adding the necessary dependencies
- 2 Creating model classes
- 3 Converting to and from JSON methods

# Automating JSON serialization

- 1 Adding the necessary dependencies
- 2 Creating model classes
- 3 Converting to and from JSON methods
- 4 Generating the .part file

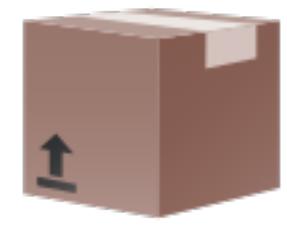


# DEMO



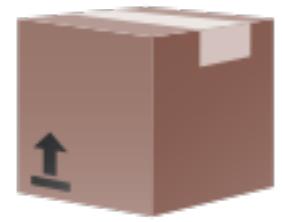
# Networking in Flutter

# Networking



Package http

# Networking



Package http



Methods

GET

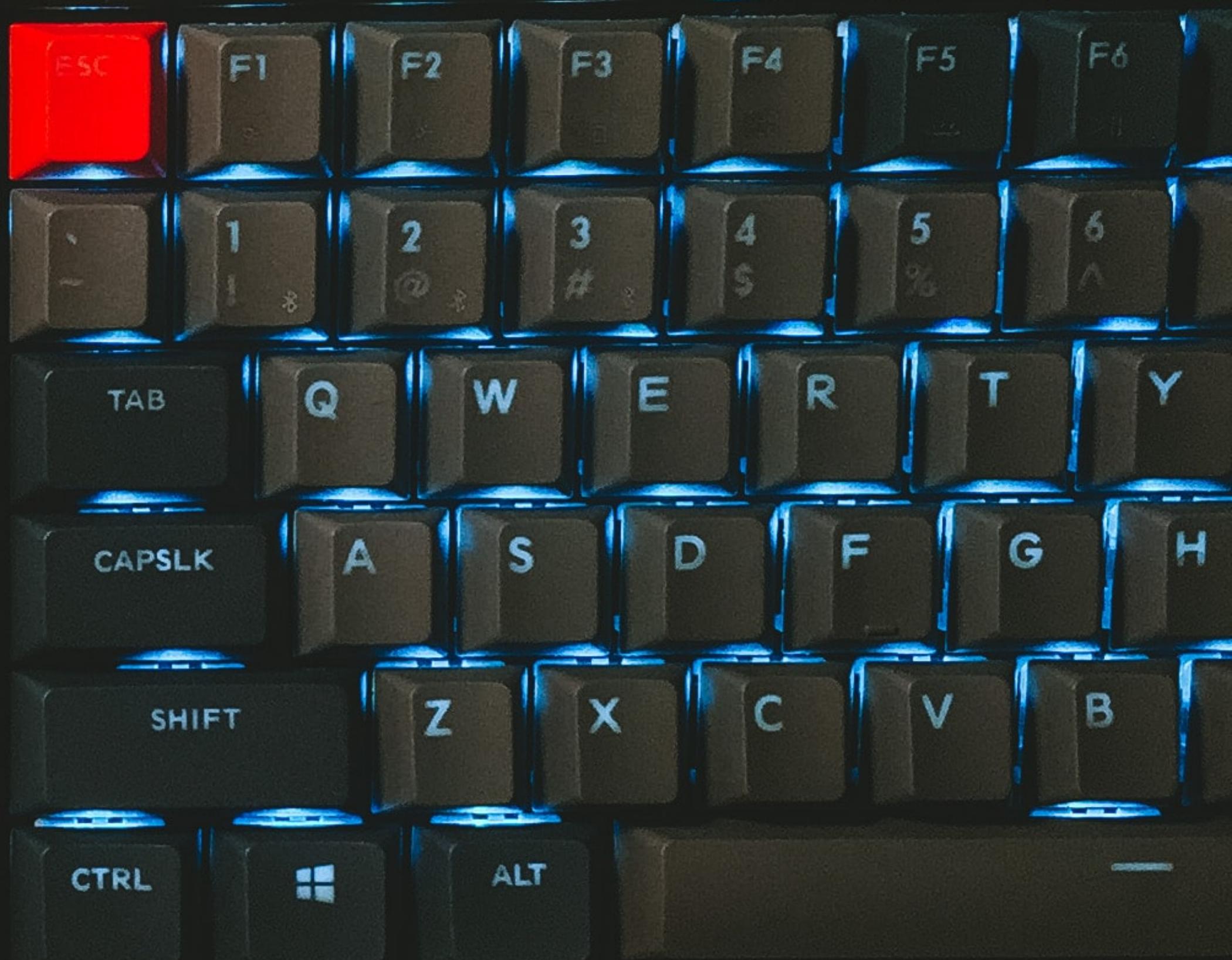
PUT

POST

DELETE



# DEMO



# Http package

- rapid prototyping and demos
- easy to use to handle network calls
- No need advanced networking features



# Http package

- Need to generate code to simplify development
- Need to organize the code in a modular way
- Need advanced networking features



# Recap

## What we have learned

- 👉 Decoding and encoding json manually
- 👉 Decoding and encoding json with generator
- 👉 Http package

A close-up photograph of a Siamese cat's face. The cat has dark brown points on its ears, face, paws, and tail, with a light cream-colored body. It is looking directly at the camera with a slightly tilted head and a neutral to slightly annoyed expression. The background is a soft-focus grey.

404

Not found.

**#Dashatar**

<https://dashatar-dev.web.app/>





**Q&A**