

# RESTful API

## 

```
[dependencies]
# web
axum = "0.7.2"
# Tokio 1.0
tokio = { version = "1.35.1", features = ["full"] }
# http client
reqwest = "0.11.23"
#
log = "0.4.20"
#
simple_logger = "4.3.0"
#
serde = { version = "1.0", features = ["derive"] }
# json
serde_json = "1.0.68"
```

## http server

```
# src/main.rs

//
use axum::{
    http::StatusCode,
    response::{Html, IntoResponse, Json},
    routing::{get, post},
    Router,
};
use log::{debug, info, trace, warn};
use serde::{Deserialize, Serialize};
use serde_json::json;
```

```

use simple_logger::SimpleLogger;

#[tokio::main]
async fn main() {
    // 初始化
    SimpleLogger::new().init().unwrap();
    debug!("power by iovhm.com");
    warn!("©copyRight");
    trace!("2023-12-27");
    info!("application start");

    let app = Router::new()
        // GET /
        .route("/", get(root));

    let listener = tokio::net::TcpListener::bind("0.0.0.0:3000").await.unwrap();
    info!("server listen at 0.0.0.0:3000");

    axum::serve(listener, app).await.unwrap();
}

#[derive(Serialize, Deserialize)]
struct Person {
    name: String,
    age: u32,
}

async fn root() -> impl IntoResponse {
    info!("entry root");

    // 返回JSON
    let json_obj = json!({"name": "John Doe", "age": 30});

    return Json(json_obj);
}

```

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