PROJECT

เว็ปขายหนังสือ ออนไลน์

จุดประสงค์

เว็ปขายหนังสือ

1.เพื่อศึกษาวิธีการออกแบบ WEB SERVER ด้วย APIARY

2.เพื่ออำนวยความสะดวกในการเลือกซื้อหนังสือ

3.เพื่อศึกษาวิธีการเขียนตัว WEB SERVER ด้วย ภาษา RUST

เป้าหมาย

เว็ปขายหนังสือ

1.เพื่อความสะดวกในการ เลือกซื้อหนังสือ

2.ฝึกฝนการใช้**HTTP METHODS** และเรียนรู้การ ออกแบบ **API**

3.เรียนรู้วิธีการใช้ภาษา **RUST**

RUST FILE STRUCTER

Main.rs

```
src > 📵 main.rs > ...
      use actix web::{App, HttpServer,};
      use env logger::Env;
      pub mod routes;
      pub mod handlers;
      pub mod models;
      use crate::routes::*;
      #[actix web::main]
       ▶ Run | Debug
      async fn main() -> std::io::Result<()> {
          env logger::Builder::from env(Env::default().default filter or("debug")).init();
         HttpServer::new(|| {
              App::new()
                   .configure(profile route::config)
                   .configure(list route::config)
                   .configure(add route::config)
                   .configure(update_route::config)
                   .configure(delete route::config)
          .bind("127.0.0.1:8080")?
          .run()
          .await
```

Handlers handlers/add_handlers.rs

```
src > handlers > <a>®</a> add_handlers.rs > <a> create_book</a>
      use actix web::{post, web, HttpResponse};
      use crate::models::list::*;
      use serde json::json;
      #[post("/books/{id}")]
      async fn create book(category: web::Json<RequestBook>,list id: web::Path<i32>) -> HttpResponse {
           let req = category.into inner();
          let id: i32 = list id.to string().parse().unwrap();
          let messageeror = "Not Found".to_string();
          let date = "2023-03-19T08:40:51.620Z";
          let book = RequestBook{
               category:req.category,
               list:req.list
           if id != 20 {
               let respondbook = DeleteMessage{
                   message: messageeror
               let response body = json!(respondbook);
               HttpResponse::NotFound().json(response body)
               let respondbook = BookCategory{
                   category: book.category,
                   published_at: date.to_string(),
                   list: book.list
               let response body = json!(respondbook);
               HttpResponse::Created().json(response body)
```

Handlers handlers/delete_handlers.rs

```
src > handlers > 

    delete handlers.rs > 
    delete book
      use actix web::{delete, web, HttpResponse};
      use crate::models::list::*;
      use serde json::json;
      #[delete("/books/{id}")]
      async fn delete book(category: web::Json<DeleteBook>,list id: web::Path<i32>) -> HttpResponse {
           let req: DeleteBook = category.into inner();
          let id: i32 = list_id.to_string().parse().unwrap();
          let message: String = "Delete Complete".to string();
          let messageeror: String = "Id Not Found".to string();
          let mut book: DeleteBook = DeleteBook{
               category:req.category,
               list:req.list
          if id != 20 {
               let respondbook: DeleteMessage = DeleteMessage{
                   message: messageeror
               let response body: Value = json!(respondbook);
 20
               HttpResponse::NotFound().json(response body)
           }else {
               let respondbook: DeleteMessage = DeleteMessage{
                   message: message
               let response body: Value = json!(respondbook);
               HttpResponse::Ok().json(response body)
       fn delete book
```

Handlershandlers/list_handlers.rs

```
src > handlers > @ list_handlers.rs > Q get_books
      use actix_web::{get, HttpResponse};
      use crate::models::list::Book;
      use crate::models::list::BookList;
      use crate::models::list::BookCategory;
      #[get("/books")]
      async fn get books() -> HttpResponse {
          let book_list: BookList = BookList {
              books: vec![
                   BookCategory {
                       category: String::from("kid"),
                       published at: String::from("2023-03-19T08:40:51.620Z"),
                       list: vec![
                           Book {
                               book id: 1,
                               book_name: String::from("Little Red Riding Hood"),
                               price: 100,
                               stock: 6,
                           Book {
                               book id: 2,
                               book_name: String::from("Peterpan"),
                               price: 120,
                               stock: 8,
                           Book {
                               book id: 3,
                               book name: String::from("Alice In Wonderland"),
                               price: 100,
                               stock: 12,
                           Book {
                               book id: 4,
                               book_name: String::from("Pinocchio"),
                               price: 120,
                               stock: 15,
```

Handlershandlers/list_handlers.rs

```
src > handlers > <a>®</a> list_handlers.rs > <a> get_books</a>
                    BookCategory {
                        category: String::from("education"),
                        published at: String::from("2023-03-19T08:50:51.620Z"),
                             Book {
                                 book id: 5,
                                book_name: String::from("คณิตไม่ต้องคิด"),
                                 price: 100,
                                stock: 2,
                             Book {
                                book id: 6,
                                book_name: String::from("ไทยวิบัติ"),
                                 price: 120,
                                 stock: 6.
                            Book {
                                book_id: 7,
                                book_name: String::from("เคมีแห่งบรก"),
                                price: 100,
                                 stock: 3,
                            Book {
                                 book id: 8,
                                book_name: String::from("แหกกฎหมาย"),
                                price: 120,
           HttpResponse::Ok().json(book_list)
       } fn get_books
```

Handlers handlers/profile_handlers.rs

```
src > handlers > 

profile_handlers.rs > 

get_id
      use actix_web::{get, Responder, HttpResponse};
       use crate::models::profile::Profile;
       use serde json::json;
  4
      #[get("/profile")]
       async fn get id() -> impl Responder{
           let id: i32 = 20;
           let profile: Vec<Profile> = vec![
               Profile {
                   id: id,
 10
                   username: "Pond".to string()
 11
 12
 13
           ];
 14
           let response body: Value = json!(profile);
 15
           HttpResponse::Ok().json(response_body)
 16
 17
```

Handlers handlers.rs

```
src > handlers > 
    update_handlers.rs > 
    update_book
      #[put("/books/{id}")]
      async fn update book(category: web::Json<RequestBook>,list id: web::Path<i32>) -> HttpResponse {
           let req: RequestBook = category.into inner();
           let id: i32 = list_id.to_string().parse().unwrap();
           let messageeror: String = "Not Found".to string();
           let date: &str = "2023-03-19T08:40:51.620Z";
           let book: RequestBook = RequestBook{
               category:req.category,
               list:req.list
 14
           if id != 20 {
               let respondbook: DeleteMessage = DeleteMessage{
                   message: messageeror
               let response body: Value = json!(respondbook);
               HttpResponse::NotFound().json(response body)
           let respondbook: BookCategory = BookCategory{
               category: book.category,
               published_at: date.to_string(),
               list: book.list
           let response body: Value = json!(respondbook);
          HttpResponse::Ok().json(response body)
       fn update book
```

Models models/list.rs

```
src > models > 🔞 list.rs > 📅 DeleteBook
       use serde::{Serialize, Deserialize};
       #[derive(Serialize, Deserialize)]
      pub struct Book {
           pub book id: u32,
           pub book name: String,
           pub price: u32,
           pub stock: u32,
       #[derive(Serialize, Deserialize)]
      pub struct BookCategory {
           pub category: String,
           pub published at: String,
           pub list: Vec<Book>,
       #[derive(Serialize, Deserialize)]
       pub struct BookList {
           pub books: Vec<BookCategory>,
      #[derive(Serialize, Deserialize)]
      pub struct RequestBook {
           pub category: String,
           pub list: Vec<Book>,
```

Models models/list.rs

```
src > models > 📵 list.rs > 📅 DeleteBook
 27
       #[derive(Serialize, Deserialize)]
 28
       2 implementations
       pub struct BookId {
 29
           pub book id: u32
 31
 32
       #[derive(Serialize, Deserialize)]
       2 implementations
 34
       pub struct DeleteBook {
           pub category: String,
 35
          pub list: Vec<BookId>,
 36
 37
       #[derive(Serialize, Deserialize)]
       2 implementations
       pub struct DeleteMessage {
 40
           pub message: String
 41
 42
```

Model

models/profile.rs

```
src > models > 📵 profile.rs > ...
       use serde::{Serialize, Deserialize};
       #[derive(Serialize, Deserialize)]
       2 implementations
       pub struct Profile {
           pub id: i32,
           pub username: String,
  6
  8
```

Routes routes/add_route.rs

```
src > routes >  add_route.rs >  config

1    use actix_web::web;
2    use crate::handlers::add_handlers::create_book;
3    pub fn config(cfg: &mut web::ServiceConfig){
4         cfg.service(factory: create_book);
5    }
```

Routes routes/delete_route.rs

Routesroutes/profile_route.rs

```
src > routes >  profile_route.rs >  config

1    use actix_web::web;
2    use crate::handlers::profile_handlers::get_id;
3
4    pub fn config(cfg: &mut web::ServiceConfig){
5         cfg.service(factory: get_id);
6    }
```

Routes routes/update_route.rs

Routesroutes/list_route.rs

```
src > routes >  list_route.rs >  config

1    use actix_web::web;
2    use crate::handlers::list_handlers::get_books;
3    pub fn config(cfg: &mut web::ServiceConfig){
4         cfg.service(factory: get_books);
5    }
```

Mod routes/mod.rs

Mod handlers/mod.rs

Mod models/mod.rs

คณะผู้จัดทำ

ยชญ์อนันต์ พิชญานนทพัฒน์ ศรุต มาลามูลศรี ฐานวัตน์ บรรดาศักดิ์ ปริญ จันทร์สิน

THANK YOU