

# 網程期末專案

## WEB ORDERING RESTAURANT

第19組

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<https://big-bite-five.vercel.app/>

## 動機

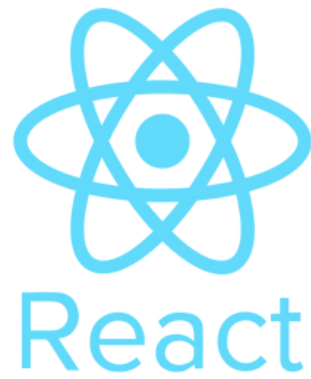
我們知道到線上餐點訂購系統在現代餐飲業的重要性。

所以我們設計了一個餐廳線上外送訂購系統



# 技術

## FRONTEND



AXIOS

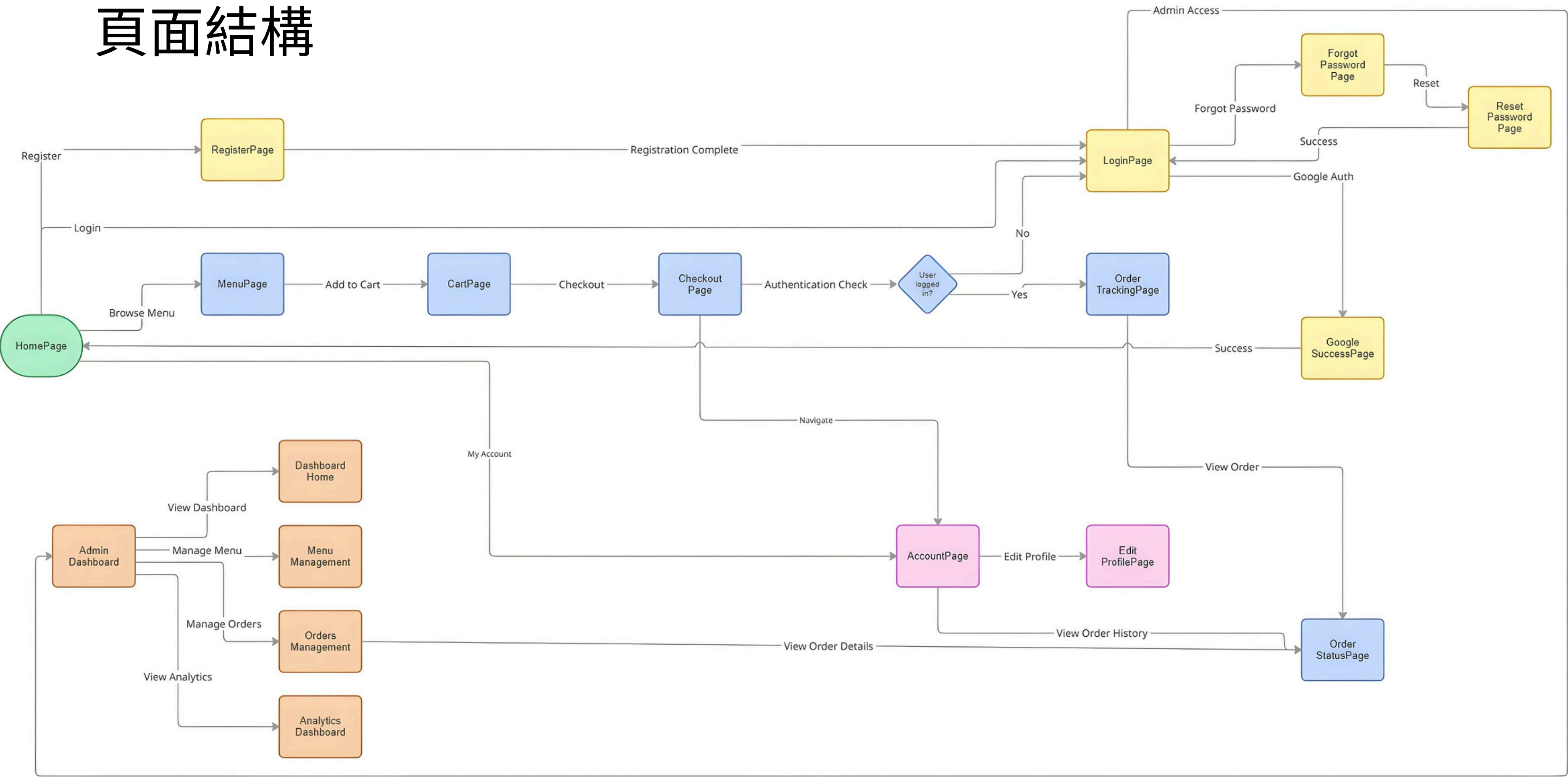
## BACKEND



**DATABASE**  mongoDB® Atlas



# 頁面結構



# FEATURES

## 用戶功能



驗證：郵件信箱/密碼登入 + Google OAuth、密碼重置



菜單和購物車：瀏覽菜單、按類別篩選、添加/移除商品、查看即時總價



結帳：僅限已認證用戶結帳、姓名、電話號碼、地址、訂單總覽確認



訂單追蹤：即時狀態更新（待處理 → 準備中 → 配送中 → 已完成）



使用者個人資料：查看訂單歷史記錄、編輯收貨地址

## Admin功能



Dashboard: KPI cards (Total Revenue, Total Orders, Pending Orders, Cancelled Orders), 訂單趨勢圖（過去 7 天）



菜單管理：新增、編輯、刪除選單項目（含圖片和分類）



訂單管理：檢視和更新訂單狀態，管理客戶訂單



分析：收入圖表（過去 7 天）、暢銷商品、每日趨勢

## Technical Stack



JWT 後端：JWT 身份驗證



安全性：Password hashing (bcrypt)、protected routes、token-based 身份驗證



UX：載入狀態、流暢的animation

# PROBLEMS

- Google OAuth redirect\_uri\_mismatch Error
- API REQUEST AUTHENTICATION

## PROBLEM 1: GOOGLE OAUTH REDIRECT\_URI\_MISMATCH ERROR

### Problems

When implementing Google OAuth authentication, users encountered a `400:redirect\_uri\_mismatch` error. This prevented users from signing in with Google.

Error 400: redirect\_uri\_mismatch

### solution

- step 1: Verify Backend Callback URL Configuration in passport.js:

```
import { GOOGLE_CLIENT_ID, GOOGLE_CLIENT_SECRET, GOOGLE_CALLBACK_URL } from "../config/env.js";

// Use environment variable or construct default
const derivedCallbackUrl = GOOGLE_CALLBACK_URL ||
  `http://localhost:${PORT || 5000}/api/auth/google/callback`;

passport.use(
  new GoogleStrategy(
    {
      clientID: GOOGLE_CLIENT_ID,
      clientSecret: GOOGLE_CLIENT_SECRET,
      callbackURL: derivedCallbackUrl, // match with Google Cloud Console
      passReqToCallback: true
    },
    ()
  )
);
```



# PROBLEM 1: GOOGLE OAUTH REDIRECT\_URI\_MISMATCH ERROR

- step 2: Configure Google Cloud Console

go to Google Cloud Console

Under Authorized redirect URIs

<http://localhost:5000/api/auth/google/callback> (for development)

<https://big-bite.onrender.com/api/auth/google/callback> (for production)

Under Authorized JavaScript origins

<http://localhost:5000> (for development)

<https://big-bite.onrender.com> (for production)

step 3: Environment Variables  
in .env (development)

```
GOOGLE_CLIENT_ID=327033233796-4isbf31kalvebag7r2lcjs1vk8f97jkf.apps.googleusercontent.com
GOOGLE_CLIENT_SECRET=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
GOOGLE_CALLBACK_URL=http://localhost:5000/api/auth/google/callback
CLIENT_URL=http://localhost:3000
```

in Render (production)

KEY	VALUE
CLIENT_URL	<a href="https://big-bite-five.vercel.app/">https://big-bite-five.vercel.app/</a>
EMAIL_FROM	mavericklook03@gmail.com
EMAIL_HOST	smtp.gmail.com
EMAIL_PASSWORD	*****
EMAIL_PORT	587
EMAIL_USER	mavericklook03@gmail.com
GOOGLE_CALLBACK_URL	<a href="https://big-bite.onrender.com/api/auth/google/callback">https://big-bite.onrender.com/api/auth/google/callback</a>
GOOGLE_CLIENT_ID	1077225887104-tb27a9fah1qa2iq5gov96r9mp0khpgrn.apps.googleusercontent.com
GOOGLE_CLIENT_SECRET	*****

in Vercel (production)

Q Search...	All Environments	⇅ Last Updated
<> REACT_APP_API_URL	<a href="https://big-bite.onrender.com/a...">https://big-bite.onrender.com/a...</a>	Updated 14h ago
All Environments		



## PROBLEM 2: API REQUEST AUTHENTICATION

in API.js

### Problems

each API call required the same 3 repetitive steps: get token from storage, add to headers, and handle expired token errors - repeated in every single function.




### solution


Axios Interceptors - middleware that run automatically on every request and every response.

```
// ✅ REQUEST INTERCEPTOR: Automatically adds authentication token to all outgoing requests
api.interceptors.request.use(
  (config) => {
    console.log(`🔵 API Request: ${config.method?.toUpperCase()} ${config.baseUrl}${config.url}`);
    // Check for token in localStorage
    const token = localStorage.getItem('token') || localStorage.getItem('authToken');
    // Add Bearer token to Authorization header
    if (token) {
      config.headers.Authorization = `Bearer ${token}`;
      console.log('✅ Token added to request headers');
    } else {
      console.log('⚠️ No token found in localStorage');
    }
    return config;
  },
  (error) => {
    console.error('❌ Request interceptor error:', error);
    return Promise.reject(error);
  }
);
```

## PROBLEM 2: API REQUEST AUTHENTICATION

in API.js

```
//  ADD RESPONSE LOGGING:
api.interceptors.response.use(
  (response) => {
    console.log(` API Response: ${response.status} ${response.config.method?.toUpperCase()} ${response.config.url}`);
    return response;
  },
  (error) => {
    console.error(` API Error: ${error.response?.status || 'No status'} ${error.config?.method?.toUpperCase()} ${error.config?.url}`);
    console.error('Error details:', error.response?.data || error.message);

    // If token expired, clear it
    if (error.response?.status === 401) {
      console.log(` 401 Unauthorized - Clearing tokens`);
      localStorage.removeItem('authToken');
      localStorage.removeItem('token');
      localStorage.removeItem('user');
      window.location.href = '/login';
    }
    return Promise.reject(error);
  }
);
```

## WORKLOAD 分工

陸楷軒01157161:

React.js, JavaScript, CSS, HTML, UI/UX flows, debugging

鍾沐良:

Node.js, Express, MongoDB, API testing, database queries

The background features decorative elements in the corners: top-left and bottom-left have overlapping teal rectangles and lines; top-right and bottom-right have teal triangles and lines. Additionally, there are 4x4 grids of small teal circles in the top-right and bottom-left corners.

# THANK YOU

<https://youtu.be/Qc4N8ZaF7gE?si=r3PyMqsdoTiLNasI>