



MONASH University

EFOLIO TASK 9 & 10

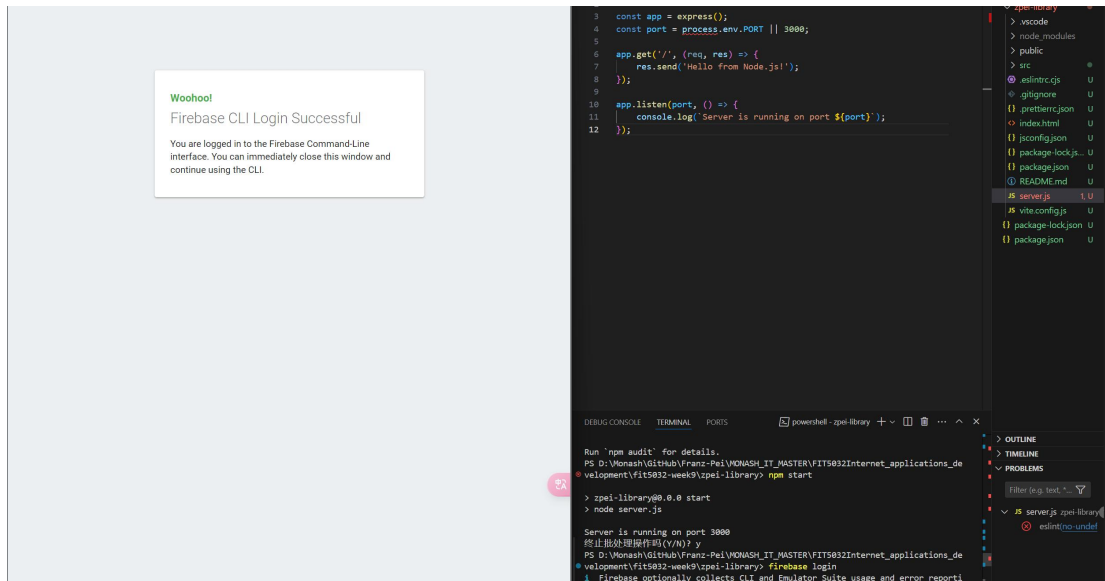
Student Name: Ziqi Pei

Student ID: 33429472

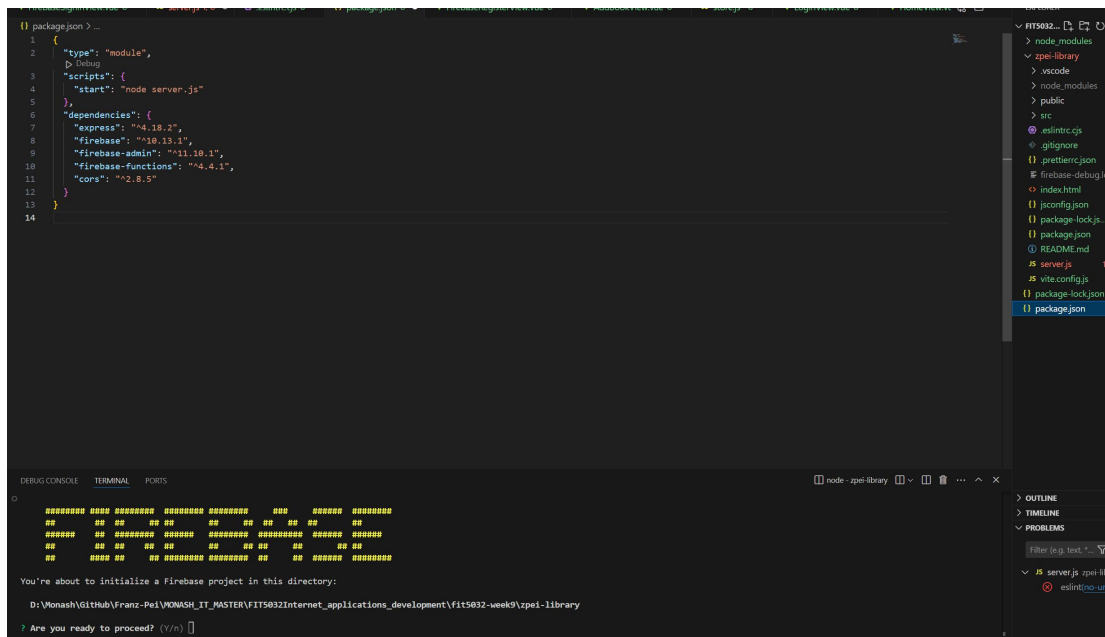
Lab Class: Tuesday 10-12am

EFOLIO TASK 9.1

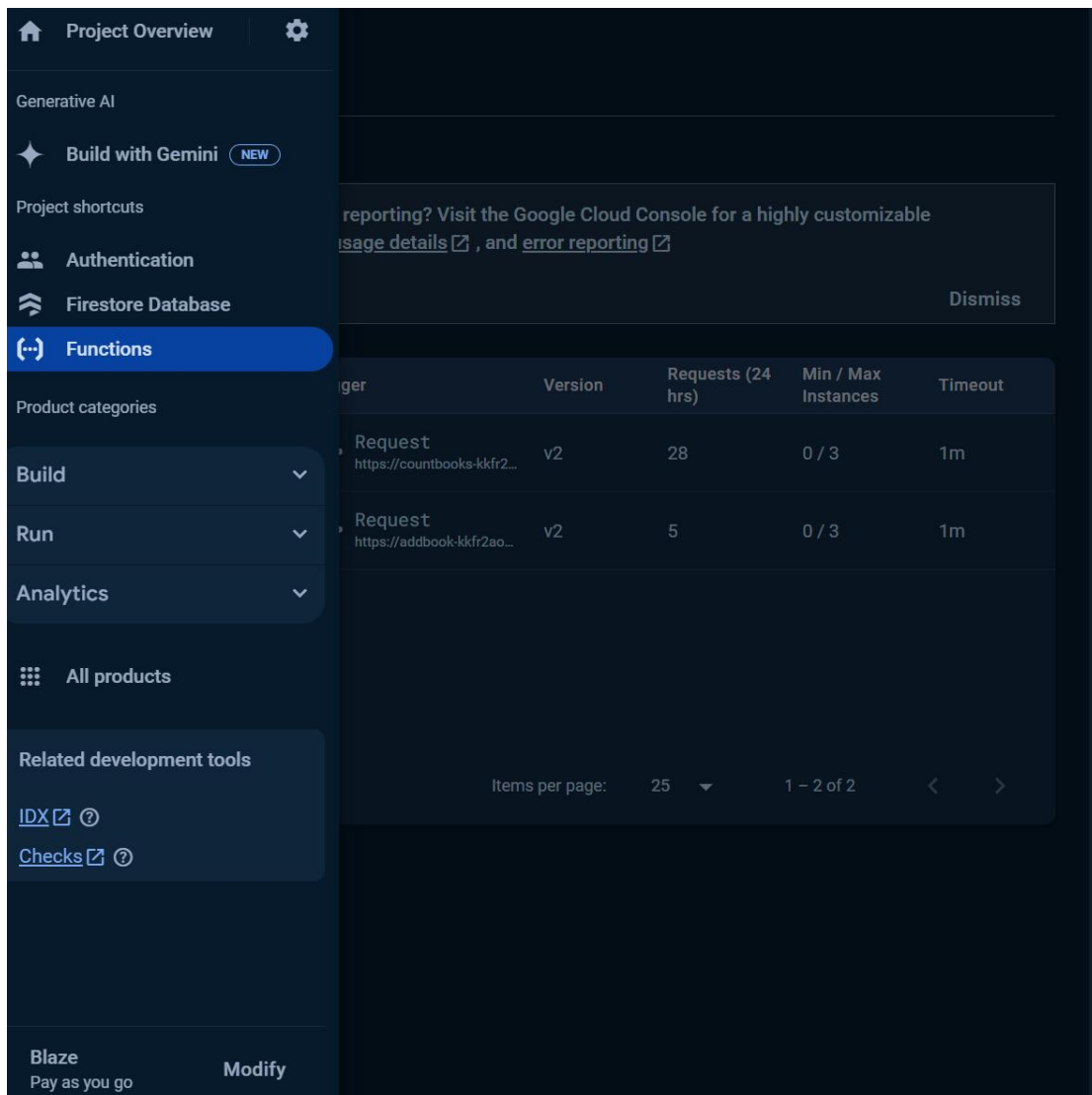
Screenshot set 1: Provide screenshots of your deployed function on your firebase with your account clearly visible



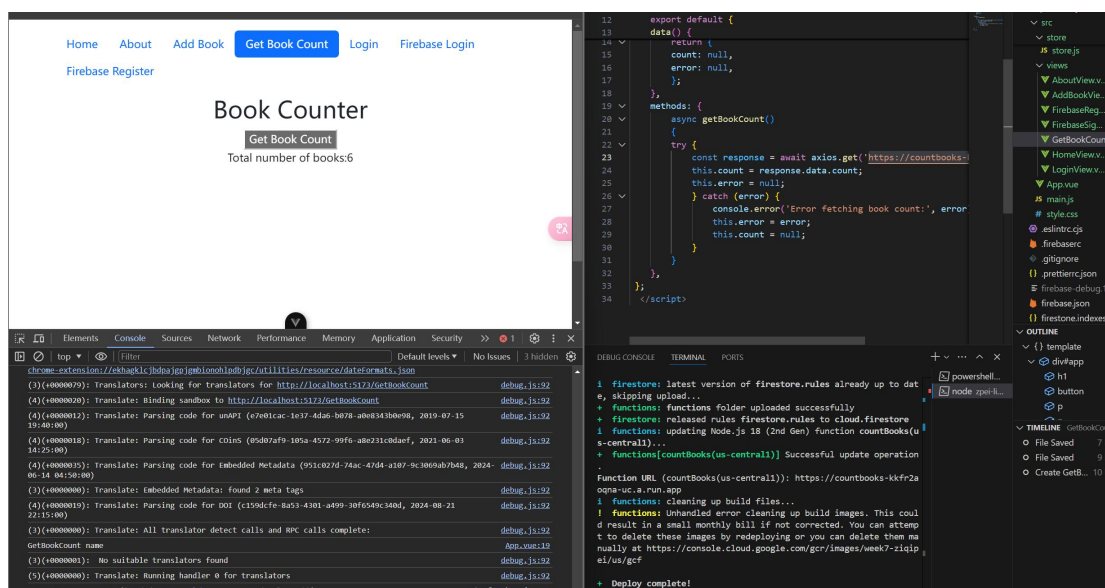
Type `firebase init firestore` in your terminal and press enter, follow the screenshot provided configuration to configure your Firebase.



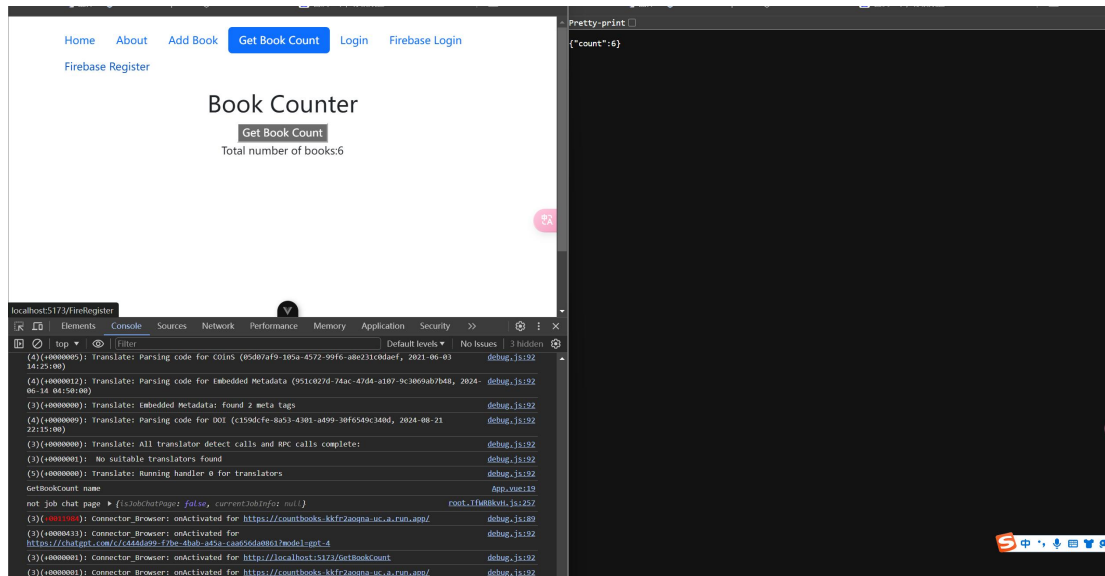
9.2.1 Create and manage function in Google cloud console



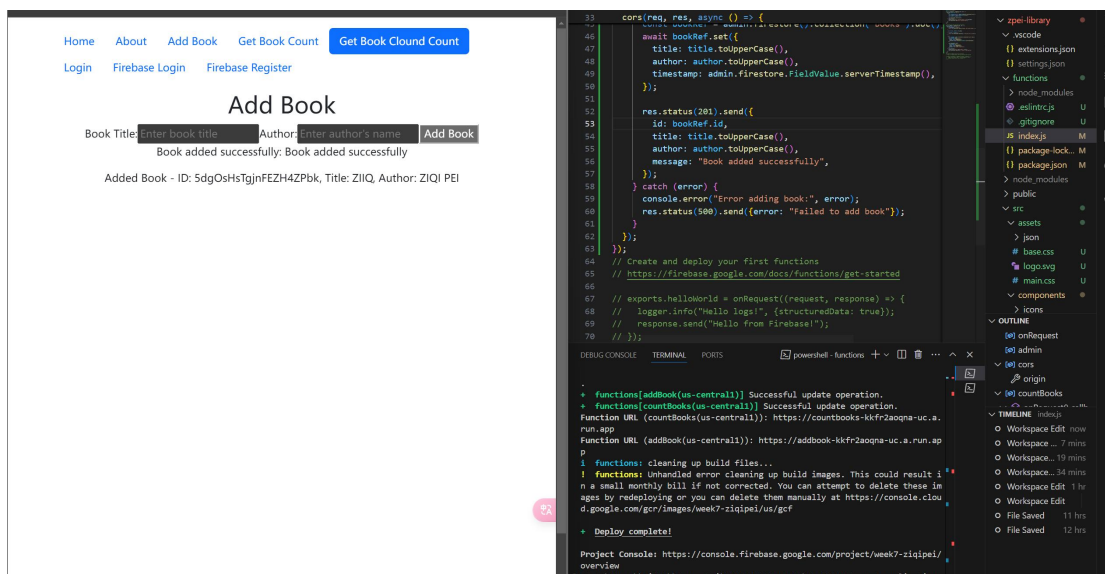
9.3 Create page to write custom Cloud Functions



9.4 Write cloud function, configure and deploy



EFOLIO TASK(DISTINCTION AND HIGH DISTINCTION LEVEL)



Google Cloud Logs Explorer interface showing a query for Cloud Run revisions. The query filters for resources of type 'cloud_run_revision' with labels 'us-central1' and 'cloud_run_revision'. The timeline shows a log entry for a successful update operation. The log entry details include the request body, response, and a warning about unhandled errors during build cleanup.

```
Query: (resource.type="cloud_run_revision" resource.labels.function_name="addBook" resource.labels.region="us-central1") OR (resource.type="cloud_run_revision" resource.labels.service_name="addbook" resource.labels.location="us-central1")
```

Log entry details:

- Severity: WARNING
- LogName: projects/week7-ziqpei/logs/run.googleapis.com/request
- Resource: (2)
- Severity: (2)
- SpanId: "8cfc436c0a72a5b"
- Timestamp: "2024-09-19T14:36:33.594956Z"
- Trace: "projects/week7-ziqpei/traces/eb3e8a79c28113a38806958f89f34081"
- TraceSampled: true

Web application interface for adding a book. The form includes fields for Book Title, Author, and an Add Book button. The response shows a successful message: "Book added successfully: Book added successfully". Below the message, it displays the added book details: ID: 5dgOsHstGjinFEZ4ZPbk, Title: ZIIQ, Author: ZIQI PEI.

Home About Add Book Get Book Count Get Book Cloud Count

Login Firebase Login Firebase Register

Add Book

Book Title Author

Book added successfully: Book added successfully

Added Book - ID: 5dgOsHstGjinFEZ4ZPbk, Title: ZIIQ, Author: ZIQI PEI

VS Code editor showing the source code for the 'AddBook' function. The code uses the Firebase Admin SDK to add a new book to the Firestore database. It includes error handling for missing titles or authors and a success message.

```
exports.addBook = onRequest((req, res) => {
  const (req, res, async () => {
    if (req.method !== "POST") {
      return res.status(403).send("Forbidden! Only POST method is allowed");
    }

    const { title, author } = req.body;

    if (!title || !author) {
      return res.status(400).send({ error: "Missing title or author" });
    }

    const bookRef = admin.firestore().collection("books").doc();
    await bookRef.set({
      title: title.toUpperCase(),
      author: author.toUpperCase(),
      timestamp: admin.firestore.FieldValue.serverTimestamp(),
    });

    res.status(201).send({
      id: bookRef.id,
      title: title.toUpperCase(),
      author: author.toUpperCase(),
      message: "Book added successfully",
    });
  });
});
```

Web application interface for adding a book. The form includes fields for Book Title, Author, and an Add Book button. The response shows a successful message: "Book added successfully: Book added successfully". Below the message, it displays the added book details: ID: 58Bp0u6hG4c8KxvAIE7p, Title: I LIKE VUE, Author: ZIQI & FANZ.

Home About Add Book Get Book Count Get Book Cloud Count

Login Firebase Login Firebase Register

Add Book

Book Title Author

Book added successfully: Book added successfully

Added Book - ID: 58Bp0u6hG4c8KxvAIE7p, Title: I LIKE VUE, Author: ZIQI & FANZ

VS Code editor showing the source code for the 'AddBook' function. The code uses the Firebase Admin SDK to add a new book to the Firestore database. It includes error handling for missing titles or authors and a success message.

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    if (req.method !== "POST") {
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    }

    const { title, author } = req.body;

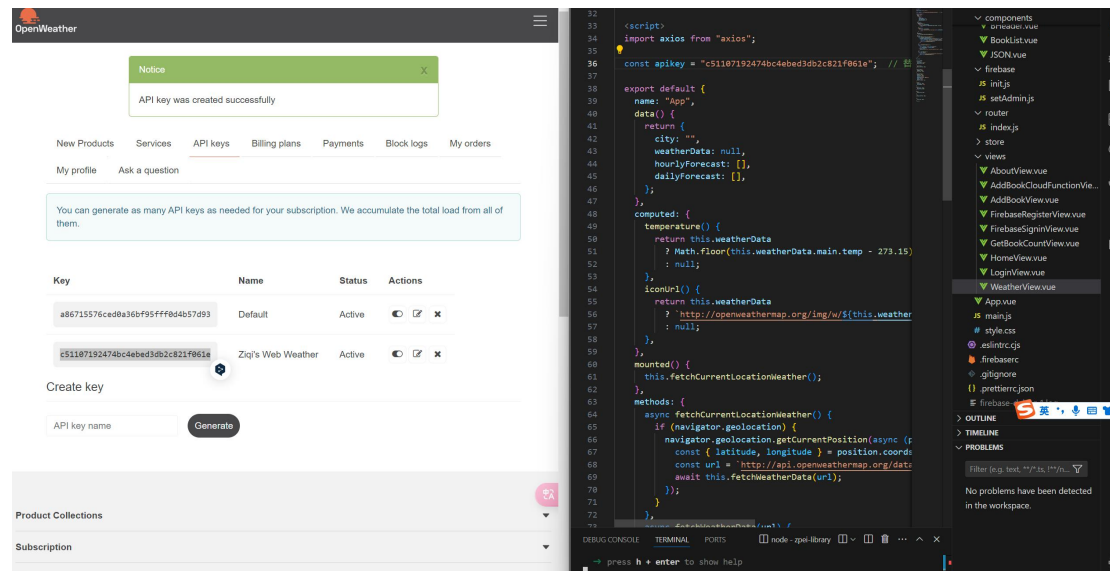
    if (!title || !author) {
      return res.status(400).send({ error: "Missing title or author" });
    }

    const bookRef = admin.firestore().collection("books").doc();
    await bookRef.set({
      title: title.toUpperCase(),
      author: author.toUpperCase(),
      timestamp: admin.firestore.FieldValue.serverTimestamp(),
    });

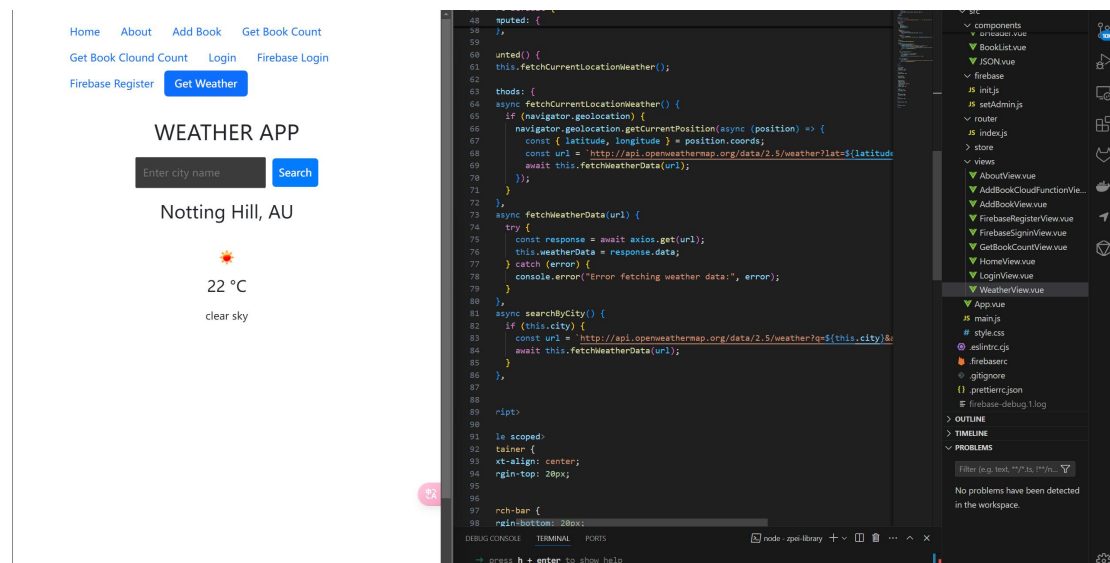
    res.status(201).send({
      id: bookRef.id,
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      author: author.toUpperCase(),
      message: "Book added successfully",
    });
  });
});
```

EFOLIO TASK 10.1

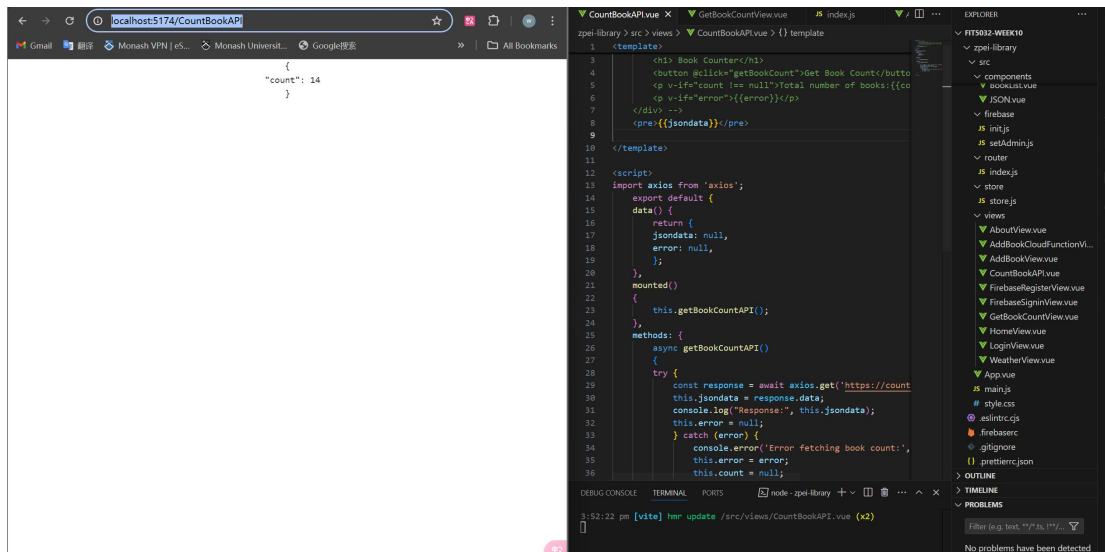
10.1.2 Apply free API service



Screenshot set 1: Screenshot of the code and browser showing the current location weather

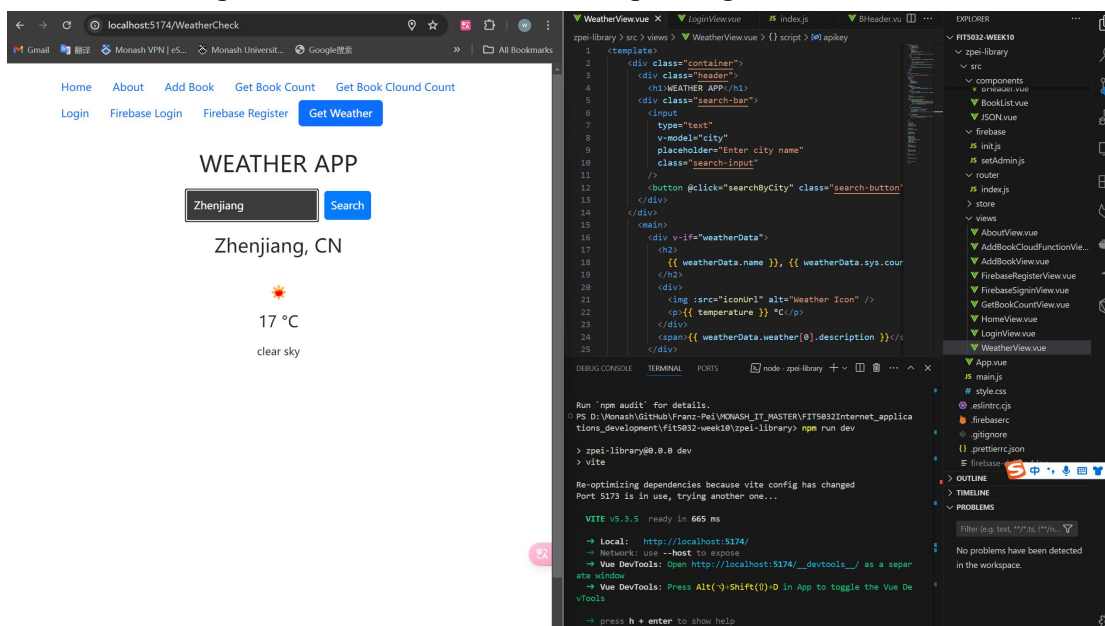


Screenshot set 2: Screenshot of the code and browser in API page showing the number of counters.



EFOLIO TASK 10.2 (DISTINCTION AND HIGH DISTINCTION LEVEL)

Screenshot set 1: Screenshot of your code and browser screen demonstrating you can search weather by city, for example, type "Clayton, AU" and it will show Clayton's weather and temperature in Celsius with a corresponding icon of the weather



Screenshot set 2: Screenshot of your code and browser screen demonstrating you can show all books in JSON format when navigating to a page called "GetAllBookAPI"

localhost:5173/GetAllBookAPI

HomeAboutAdd BookGet Book CountGet Book Cloud CountLoginFirebase LoginFirebase RegisterGet WeatherCount Book API

Get All Book API

All Books in JSON Format

```
{
  "id": "35y43d51u0WHP55v1v",
  "title": "ZIQI",
  "author": "ADAO",
  "timestamp": {
    "seconds": 1727940123,
    "nanoseconds": 707000000
  },
  "id": "588p0u0hG4cBKxvAI7p",
  "title": "I LIKE VUE",
  "author": "ZIQI & FANZ",
  "timestamp": {
    "seconds": 1726762055,
    "nanoseconds": 225000000
  },
  "id": "5dgoShsTgJnFEZH4Zpbk",
  "title": "ZIQI PEI",
  "timestamp": {
    "seconds": 1726761952,
    "nanoseconds": 421000000
  },
  "id": "6HBYxgU3vGHxOKHZacZB",
  "name": "Study vue1",
  "name": "17000"
}
```

zpei-library > src > views > GetAllBookAPI.vue > {} script

```
1 <template>
2   <div>
3     <h1>All Books in JSON Format</h1>
4     <pre>{{ jsondata }}</pre>
5     <p v-if="error">{{ error }}</p>
6   </div>
7 </template>
8
9 <script>
10  import { collection, getDocs } from "firebase/firestore";
11  import db from "@/firebase/init.js"; // Import the Firestore
12
13  export default {
14    data() {
15      return {
16        jsondata: null, // To store the books data
17        error: null, // To store any error messages
18      };
19    },
20    mounted() {
21      this.getBookData(); // Call the method when the compo
22    },
23    methods: {
24      async getBookData() {
25        try {
26          // Fetch all documents from the "books" collectio
27          const querySnapshot = await getDocs(collection(db
28            const books = [];
29
30          // Loop through all documents in the "books" coll
31          querySnapshot.forEach((doc) => {
32            books.push({
33              id: doc.id, // The document ID (Fir
34              ...doc.data(), // The rest of the fiel
35            });
36          });
37        } catch (error) {
38          this.error = error;
39        }
40      }
41    }
42  };
43 </script>
```

DEBUG CONSOLE TERMINAL PORTS node - zpei-library ernet applicatons _dev1 soment \fit50 32-wee k10 up ei-11b

9:06:35 pm [vite] page reload src/views/GetAllBookAPI.vue

PROBLEMS Filter (e.g. test, "is", "my") No problems have been detected in the workspace.