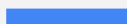


Taiwan Weather



電機四乙10828241陳大荃

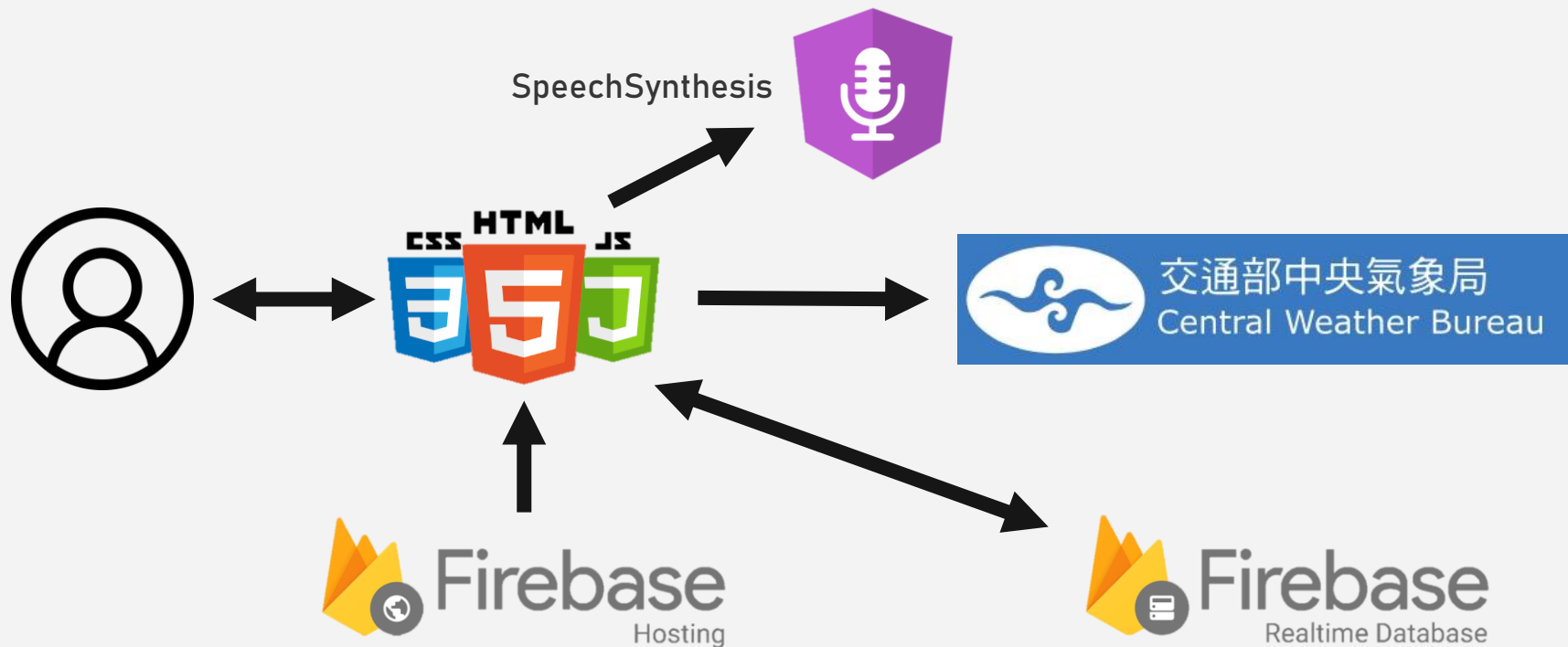
OUTLINE

1. Introduction
2. System Architecture
3. Features
4. Program Flow
5. Results

INTRODUCTION

This project performs nothing new but the same old functionality as weather apps or sites. But, the difference is by using tools and methods learned in class to build a site ground up and practice my programming skill.

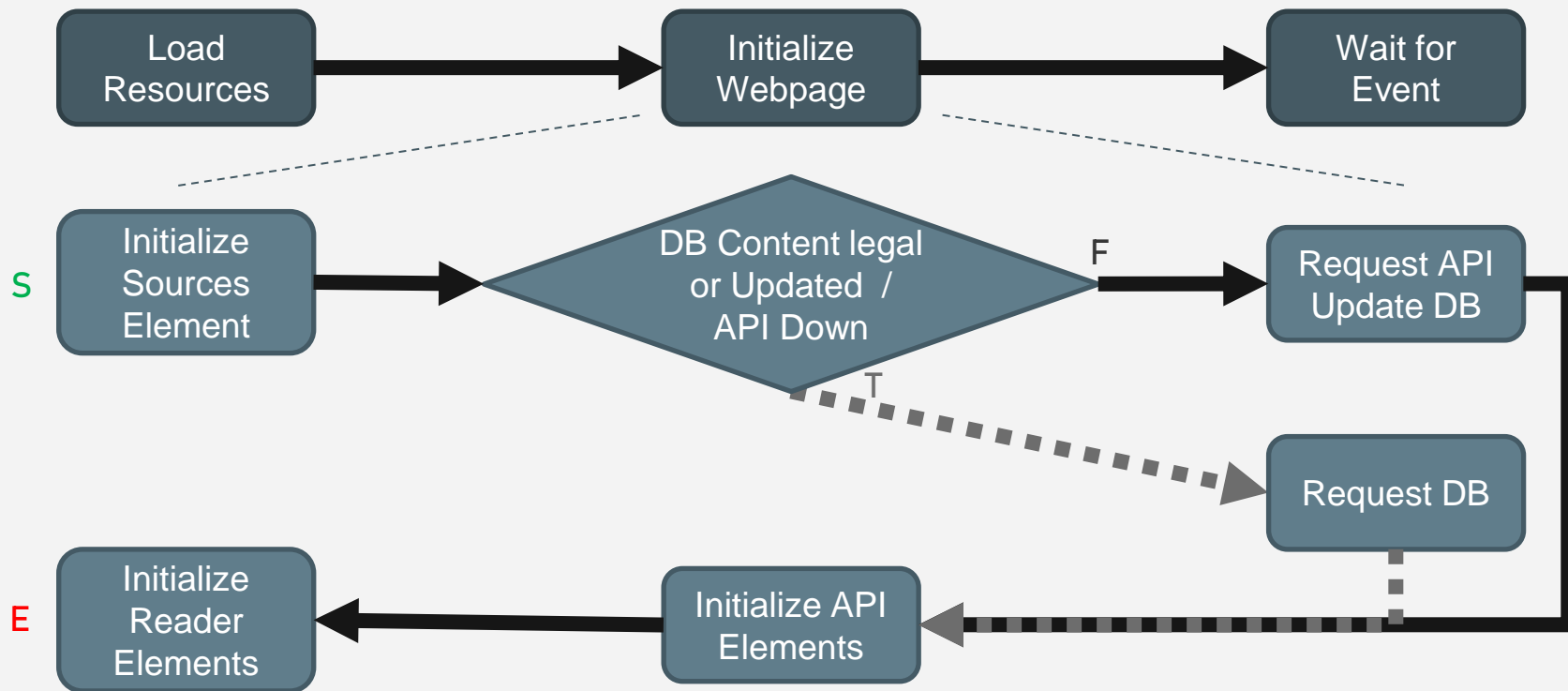
SYSTEM ARCHITECTURE



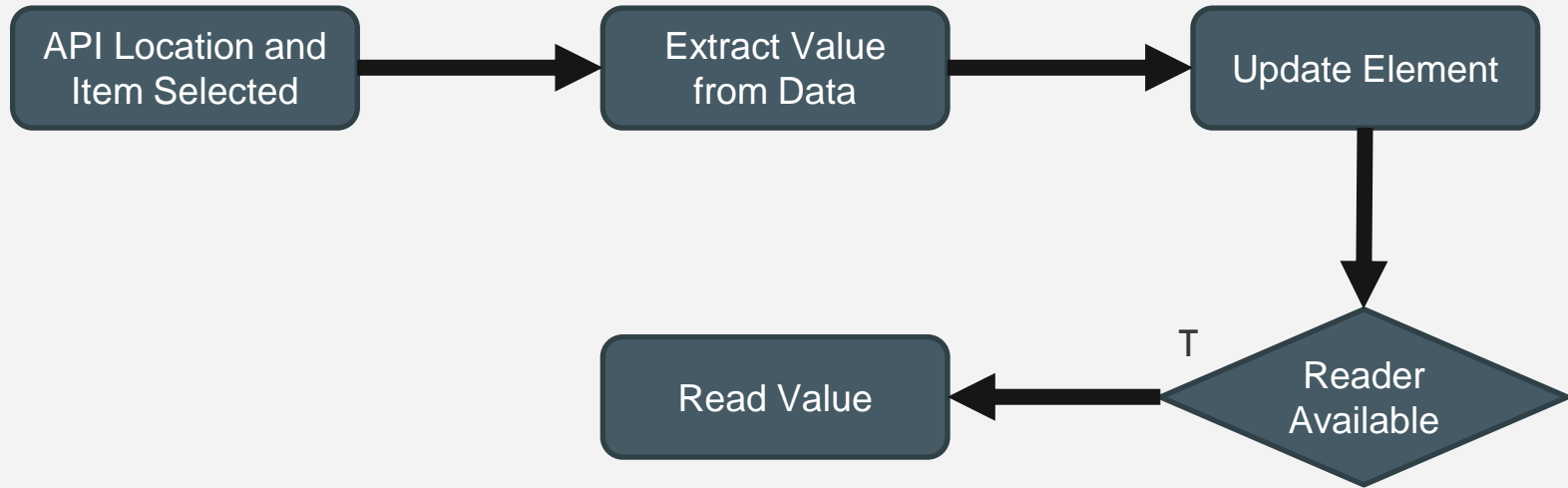
FEATURES

1. Full feature of individual APIs.
2. Backup solution if APIs are down.
3. Present the latest data.
4. Read user-selected item.
5. Scalable code structure.
6. Can reset to resolve unexpected issues or errors.
7. Flexible UI.

PROGRAM FLOW - INITIALIZE



PROGRAM FLOW - EVENT



RESULTS



Horizontal UI Display



Vertical UI Display

RESULTS

Read-only and non-realtime mode activated in the data viewer to improve browser performance

Select a key with fewer records to edit or view in realtime

```
records
├── datasetDescription
└── location
    ├── 0
    │   ├── locationName: "嘉義縣"
    │   └── weatherElement
    │       ├── 0
    │       │   ├── elementName: "Wx"
    │       │   └── time
    │       │       ├── 0
    │       │       │   ├── endTime: "2023-01-13 06:00:00"
    │       │       │   └── parameter
    │       │       │       ├── parameterName: "晴時多雲"
    │       │       │       └── parameterValue: "2"
    │       │       └── startTime: "2023-01-12 18:00:00"
    │       └── 1
    └── 1
```

Realtime Database Content

Project quotas

The resources available to you in the Spark plan are capped. If your project exceeds a limit, services may be disabled for that product.

Realtime Database		
Storage	0%	<div><div></div><div>0B1GB total</div><div>Peaked at 577.8KB in the last 7 days</div></div>
Downloads	0.7%	<div><div></div><div>73.5MB10GB / month</div></div>

Hosting		
Downloads	20.3%	<div><div></div><div>2GB10GB / month</div></div>
Storage	0%	<div><div></div><div>0B1GB total</div><div>Peaked at 1GB in the last 7 days</div></div>

Database and Hosting Usage

RESULTS

1. Website Link: <https://iotp-fdde2.web.app/>
2. GitHub Link:
https://github.com/belongtothenight/loTP_Code/tree/main/src/final
3. Video Link: https://youtu.be/i6KCKp_5HVI