

Handover Documentation

Team M

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Introduction

This handover documentation aims to provide some basic information about the hosting and configuration of the project. For additional information and documentation see the [GitHub repository](#).

Repository

Once the project is finalised on our part, you will need to contact the COMP2003 module leader and request access/ownership of the GitHub repository.

All of the files which are relevant to the project are included in the GitHub repository. The documentation can be found in the “[Project Docs](#)” folder and the source code for each project is located in the “[Source Code](#)” folder.

Module Leader: Ji-Jian Chin

Email: ji-jian.chin@plymouth.ac.uk

Link

https://github.com/Plymouth-University/comp2003_2022-team-m

Hosting

Docker images/containers have been configured for the API and the database, therefore, those can easily be hosted on a platform of your choosing, providing it supports Docker.

Note: After hosting the API, make sure to change the current API URL in both client applications — the Android drawing app and the admin portal. ([see Configuration section](#))

Configuration

API

To make sure the API is working as intended you will need to configure a couple of things:

1. The database connection string
2. Backblaze secret/bucket keys

Configuring Database Connection

Once your database is hosted you need to add the connection string to the appsettings.json found in the root directory of the API project. (*see Figure 1*)

```
"ConnectionStrings": {  
  "DB": "Server=sql_db,1433;Database=COMP2003;User Id=SA;Password=COMP2003!;Encrypt=False;Trusted_Connection=False;",  
  "DB_DEV": "Data Source=localhost;Database=COMP2003;User Id=SA;Password=COMP2003!;Encrypt=False;Trusted_Connection=False;"  
}
```

Figure 1, appsettings.json Connection Strings section

Configuring Backblaze

The drawings produced during events are stored using a third-party cloud provider — Backblaze. To configure Backblaze within the API you will need to create a Backblaze account and provide your own API and bucket keys.

Instructions

1. Create an account.
2. Navigate to “My Account” page.
3. Navigate to “App Keys” section.
4. Click on the “Add a New Application Key” button and create a new key.
5. You will then be shown the Key ID and the Application Key. (see Figure 24)

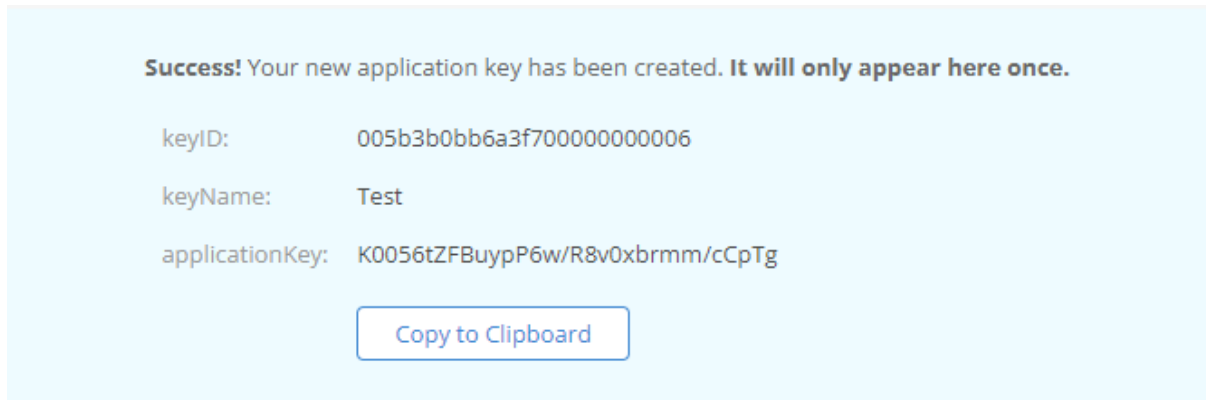


Figure 2 – Popup after API key creation in Backblaze account settings

6. Copy the “keyID” and “applicationKey” values from the success dialog and paste them into the appsettings.json file in the API. (see Figure 25)

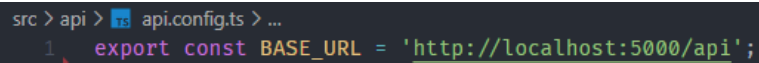
```
"Backblaze": {
  "keyID": "005b3b0bb6a3f7000000000004",
  "applicationKey": "K00500DljER0ONBe6SlvfRwZht7wFHQ",
  "drawingsBucket": {
    "name": "nma-drawings",
    "ID": "6b438b80abfb66fa836f0710"
  }
},
```

Figure 3 – appsettings.json Backblaze section

7. Then while still in account settings, head to “Buckets”.
8. Click “Create a Bucket”.
9. Once created, copy the bucket name and the “bucket ID” values and paste them into the appsettings.json file under the “drawingsBucket” property. (see Figure 25)
10. Build the application.
11. All done, the API should be able to communicate with your Backblaze service now and read and write drawing files.

Admin Portal

Once the API is hosted you will need to update the API URL within the admin portal application’s API configuration file. It can be found by navigating to “Source Code/Admin/src/api/api.config.ts”. You simply need to change the BASE_URL variable to your hosted web service’s URL. (see Figure 4)

A screenshot of a code editor with a dark background. The text shows a file path 'src > api > api.config.ts > ...' followed by a line of TypeScript code: 'export const BASE_URL = 'http://localhost:5000/api';'. The line number '1' is visible on the left.


```
src > api > api.config.ts > ...  
1 export const BASE_URL = 'http://localhost:5000/api';
```

Figure 4 – Screenshot of BASE_URL constant variable in api.config.ts

Android Drawing Application

Similarly, to the admin portal application, you need to update the API's base URL in the RetrofitClient.java file. It can be found by navigating to “Source Code/Android/app/src/main/java/com/example/nmadrawingapp/model/data_sources/network/RetrofitClient.java”.

You just need to update the URL variable to your web service's base URL. (see Figure 5)

A screenshot of a code editor with a dark background. The text shows a line of Java code: 'private static final String URL = "http://192.168.0.18:5000/api/";'. The line number '17' is visible on the left.

```
17 private static final String URL = "http://192.168.0.18:5000/api/";
```

Figure 5 – Screenshot of URL constant variable in RetrofitClient.java