Structure of the web

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| --- | --- | --- | --- | --- | --- |
| Database | Back-end | Front-end | | | Action |
| -SQL database | -Node.js base | -.HTML and .EJS with .CSS | | |  |
| mySQL (on Cloud)  - a Member list table  - Individual favorite list tables for each user | Index.js (for .html)  -login system  -account management | Login page | Log in page | To Homepage | Post/Get |
| Sign up page | Back to login page | Post/Get |
| Forget password page  (outlook email) | Post/Get |
| Homepage  (can not be accessed before authentication) | Log out page | Log out, clear the session data and  back to login page | -- |
| Change password page | Post/Put/Get |
| Deleted account page | Del/Post/Get |
| news.js (for .ejs)  - newsAPI (for news report)  -HKO API (for weather report)Get | HK Headline page  (default page) | Detail page of news  -source link  -achieve | Get |
| Achieve list page  - update comment  - delete posts | Get/Put/Post/Del |
| Search news page | Post/Get |
| Weather  (shown on the HK headline page) | Weather details  -source link | Get |

Login page : 127.0.0.1:3000

Homepage: 127.0.0.1:3000/home

API source: NewsAPI

<https://newsapi.org/>

Hong Kong Observatory

<https://www.hko.gov.hk/tc/weatherAPI/doc/files/HKO_Open_Data_API_Documentation_tc.pdf>

Mechanism:

Signup - Post the data to back-end server -> Check if the username exist → Insert data(username, password, email, nickname and registration date) onto the member list table → Create individual favorite list table → Clear temporary data → Re-direct to login page

Login - Post the data to back-end server -> Check if the username and password exist (\*if the username is not match, will try the email) → Change the login status to “ON” and get the nickname (and username) from the database → Re-direct to homepage

Forgot the password- Post the data to back-end server → Check if the username and email exist → get the password from database → send an email to the client thought Outlook →Re-direct to login page

Log out - Clear the temporary data, turn off the login status → Re-direct to login page

Change password - Post the data to back-end server → Check if the username and password exist → Put the data onto the database to update the “password” and the “update date”→ Clear the temporary data, turn off the login status → Re-direct to login page

Delete account - Post the data to back-end server → Check if the username and password exist → Delete the corresponding data on the member list table → Delete the corresponding favorite list table → Clear the temporary data, turn off the login status → Re-direct to login page

Homepage - Get information (Hong Kong Headline) using the NewsAPI , Get the information (Weather) using the HKO API → Post the data onto the web page → if the article is clicked, to single view (carry the corresponding information)

Search New - Post the options to the node server → Get information (Hong Kong Headline) using the NewsAPI → Post the data onto the web page →if the article is clicked, to single view (carry the corresponding information)

Single View- Get information (Carrying article details) from the front-end → Post the data onto the web page → If the source link is clicked, redirect to the source page; else if the “back” is click, redirect to the previous page; else if the “archived” is clicked, post the article details to the favourite list table on the database.

Archived list- Get the data from the favourite list on the database → Post the data onto the web page → If the article is clicked, redirect the “Single view”; else if the “submit” is click, post the written details to the favourite list table on the database and refresh the Archived list page; else if the “Update the comment” is clicked, post the article details to the favourite list table on the database and refresh the Archived list page; else if the “Delete the post” is clicked, post the detail to the served and delete the corresponding data. Then, refresh the page.