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Handover

Deployment Guide

Deployment Guide:

Welcome to the BoxJelly project. As a user who wants to deploy and use this project, it is important to understand that the project consists of two parts: the front-end web page, which displays data charts, and the back-end, which communicates with the Garmin Connect platform and processes data. The back-end also includes a basic database program used for storing data. To properly deploy this project and make it fully functional, the front-end, back-end, and database must all be completed in sequence according to the steps in this guide.

1. DataBase:

requiredDebian10 instance (Recommended service provider: Vultr, AWS)

1. Import MongoDB's public GPG key:

First, import MongoDB's public GPG key to ensure the integrity and authenticity of the downloaded packages. Run the following command:

```
wget -qO - https://www.mongodb.org/static/pgp/server-4.4.asc | sudo apt-key add -
```

2. Add the MongoDB repository:

Create a list file containing the MongoDB repository. For MongoDB 4.4, run the following command:

```
echo "deb [ arch=amd64,arm64 ] https://repo.mongodb.org/apt/debian buster/mongodb-org/4.4 main" | sudo tee /etc/apt/sources.list.d/mongodb-org-4.4.list
```

Then, update the local package database:

```
sudo apt update
```

3. Install MongoDB using the following command:

```
sudo apt install -y mongodb-org
```

4. Start the MongoDB service:

After the installation is complete, start the MongoDB service and set it to start automatically at system boot:

```
sudo systemctl start mongod
sudo systemctl enable mongod
```

5. Verify the MongoDB installation:

Check the status of the MongoDB service using the following command:

```
sudo systemctl status mongod
```

If you see Active: active (running) status, it means MongoDB has been successfully installed and is running.

Now, you have successfully deployed MongoDB on a Vultr Debian 10 instance. To ensure system security, make sure to properly configure MongoDB, manage permissions, and set up the firewall when deploying it in a real-world scenario. For more information, refer to the MongoDB official documentation (<https://docs.mongodb.com/manual/administration/security-checklist/>).

2. BackEnd:

Change the database of your own (ignore this if you want to use the old database from the previous year)

Note: The old database already has a lot of sample data inside, it can be harder to find the new data added

```

#OAuth urls
requestToken.url=http://connectapi.garmin.com/oauth-service-1.0/oauth/request_token
oauthConfirm.url=http://connect.garmin.com/oauthConfirm
oauthAccessToken.url=http://connectapi.garmin.com/oauth-service-1.0/oauth/access_token
callBackURL.url=https://coaching-mate0121.herokuapp.com/auth/accessToken

requestToken.url=http://connectapi.garmin.com/oauth-service-1.0/oauth/request_token
oauthConfirm.url=http://connect.garmin.com/oauthConfirm
oauthAccessToken.url=http://connectapi.garmin.com/oauth-service-1.0/oauth/access_token
callBackURL.url=https://ga-boxjelly.herokuapp.com/auth/accessToken
callBackURL.url=https://localhost:8080/auth/accessToken

#redis configuration
spring.redis.database=0
spring.redis.host=8.129.65.2
spring.redis.port=6379
spring.redis.password=717294
spring.redis.timeout=3000ms

#spring.data.mongodb.uri = mongodb://coachingmate:123456@127.0.0.1:27017/coachingmate

#mongodb for local configuration
spring.data.mongodb.database=coachingmate
spring.data.mongodb.port=27017

spring.data.mongodb.uri = mongodb://root:5608095liyukun@136.244.105.80:26455/coach?authSource=admin&retryWrites=true&w=majority
# mongodb+srv://ga_boxjelly:6a_boxjelly2022@cluster1.mjm2t.mongodb.net/coachingmate?retryWrites=true&w=majority

# mongoDB configuration
#server.port=8080
server.port: ${port:8080}
#
## the type of the key store (JKS or PKCS12)
#server.ssl.key-store-type=pkcs12
#
## the path to the key store that contains the SSL certificate.
#server.ssl.key-store=classpath:cert2.p12
#
## the password used to access the key store
#server.ssl.key-store-password=password
#
## the password used to access the key in the key store
#server.ssl.key-password=password

spring.swagger2.enabled=true

spring.banner.location=banner.txt
spring.devtools.restart.trigger-file=trigger.txt

spring.thymeleaf.cache=false

#Consumer Credentials
#oauth.consumerKey = d258c644-e0d8-4177-9d0c-b5b4470a2c95
#oauth.consumerSecret = 2qzSlbfjyUmy0XA2Uz0837cWE7HLxwoSB
#
### last year
#oauth.consumerKey = c9b342b6-a2f7-44ad-b262-3e26a9e23636
#oauth.consumerSecret = WnxW#oimSNFArFXeVpN2Q6IPcdwDJS85cG
#
#ed create
#oauth.consumerKey = 77216eea-c39e-43a9-a996-d8ddee837c59
#oauth.consumerSecret = 1Mg0Vg1ea6aVm1Zu80oFg6FiBQ27Chb1U1

```

If the default port 8080 is occupied locally, it needs to be modified.

```

#OAuth urls
requestToken.url=http://connectapi.garmin.com/oauth-service-1.0/oauth/request_token
oauthConfirm.url=http://connect.garmin.com/oauthConfirm
oauthAccessToken.url=http://connectapi.garmin.com/oauth-service-1.0/oauth/access_token
callBackURL.url=https://coaching-mate0121.herokuapp.com/auth/accessToken

requestToken.url=http://connectapi.garmin.com/oauth-service-1.0/oauth/request_token
oauthConfirm.url=http://connect.garmin.com/oauthConfirm
oauthAccessToken.url=http://connectapi.garmin.com/oauth-service-1.0/oauth/access_token
callBackURL.url=https://ga-boxjelly.herokuapp.com/auth/accessToken
callBackURL.url=https://localhost:8080/auth/accessToken

#redis configuration
spring.redis.database=0
spring.redis.host=8.129.65.2
spring.redis.port=6379
spring.redis.password=717294
spring.redis.timeout=3000ms

#spring.data.mongodb.uri = mongodb://coachingmate:123456@127.0.0.1:27017/coachingmate

#mongodb for local configuration
spring.data.mongodb.database=coachingmate
spring.data.mongodb.port=27017

spring.data.mongodb.uri = mongodb://root:5608095liyukun@136.244.105.80:26455/coach?authSource=admin&retryWrites=true&w=majority
# mongodb+srv://ga_boxjelly:6a_boxjelly2022@cluster1.mjm2t.mongodb.net/coachingmate?retryWrites=true&w=majority

# mongoDB configuration
#server.port=8080
server.port: ${port:8080}
#
## the type of the key store (JKS or PKCS12)
#server.ssl.key-store-type=pkcs12
#
## the path to the key store that contains the SSL certificate.
#server.ssl.key-store=classpath:cert2.p12
#
## the password used to access the key store
#server.ssl.key-store-password=password
#
## the password used to access the key in the key store
#server.ssl.key-password=password

spring.swagger2.enabled=true

spring.banner.location=banner.txt
spring.devtools.restart.trigger-file=trigger.txt

spring.thymeleaf.cache=false

#Consumer Credentials
#oauth.consumerKey = d258c644-e0d8-4177-9d0c-b5b4470a2c95
#oauth.consumerSecret = 2qzSlbfjyUmy0XA2Uz0837cWE7HLxwoSB
#
### last year
#oauth.consumerKey = c9b342b6-a2f7-44ad-b262-3e26a9e23636
#oauth.consumerSecret = WnxW#oimSNFArFXeVpN2Q6IPcdwDJS85cG
#
#ed create
#oauth.consumerKey = 77216eea-c39e-43a9-a996-d8ddee837c59
#oauth.consumerSecret = 1Mg0Vg1ea6aVm1Zu80oFg6FiBQ27Chb1U1

```

Change the callback URL of your own

```

oauth.consumerSecret = RKZn6eu1MG2hb0rSL5yltg5pYogw1HEAI
...
#OAuth urls
#requestToken.url=http://connectapi.garmin.com/oauth-service-1.0/oauth/request_token
#oauthConfirm.url=http://connect.garmin.com/oauthConfirm
#oauthAccessToken.url=http://connectapi.garmin.com/oauth-service-1.0/oauth/access_token
#callbackURL.url=https://coach.myyhlyx.cn/auth/accessToken
#callbackURL.url=https://ga-boxjelly.herokuapp.com/auth/accessToken
#callbackURL.url=https://localhost:8080/auth/accessToken
#redis configuration
#spring.redis.database=0
#spring.redis.host=8.129.65.2
#spring.redis.port=6379
#spring.redis.password=717294
#spring.redis.timeout=3000ms
#spring.data.mongodb.uri = mongodb://coach:unimelb@8.129.65.2:27017/coachingmate
#mongodb for local configuration
#spring.data.mongodb.database=coachingmate
#spring.data.mongodb.port=27017
#spring.data.mongodb.uri = mongodb+srv://ga_boxjelly:Ga_boxjelly2022@cluster1.mjmt2.mongodb.net/coachingmate?retryWrites=true&w=majority
spring.data.mongodb.uri = mongodb://root:5608095liyukun@136.244.105.80:26455/coach?authSource=admin&retryWrites=true&w=majority
spring.mail.host=smtp.mail.ru

```

Make sure SMTP service is configured to continue (from line 74).

You should also change the Google Map API key in frontend:

```

...
if (this.state.coordinates.length != 0) {
  this.setState({ loading: false });
}

console.log(maps);

};

return (
  // Important! Always set the container height explicitly
  <div>
    <div style={{ height: '600px', width: '100%', display: this.state.loading ? 'block' : 'none' }}>
      <LoadingOutlined className="loading-style" spin />
    </div>
    <div style={{ height: '600px', width: '100%' }>
      <GoogleMapReact
        bootstrapURLKeys={{"key": "AIzaSyCQDfJLJUOJ..."}}
        defaultCenter={{ lat: 37.7813, lng: -122.4015 }}
        defaultZoom={14}
        center={[37.7813, -122.4015]}
        yesIWantToUseGoogleMapApiInternals
        onGoogleApiLoaded={({ map, maps }) => apisLoaded(map, maps)}
      >
        <GoogleMapReact>

      </div>
      <img src={ img } style={{ marginLeft: '38%', display: this.state.loading ? 'none' : 'block' }} />
    </div>
  </div>
)

```

OnServer

requiredDebian10 instance (Recommended service provider: Vultr)

1. Update the system:

First, open a terminal on your instance and run the following commands to update all packages:

```
sudo apt update  
sudo apt upgrade -y
```

2. To run the jar file, you need Java installed on your instance. It is recommended to use OpenJDK. To install Java 8, run the following command:

```
sudo apt install openjdk-11-jdk -y
```

After the installation is complete, verify that Java was successfully installed:

```
java -version
```

3. Download the jar file:

First, make sure 'wget' tools are installed:

```
sudo apt install wget -y
```

Then, use one of the following commands to download the jar file:

```
wget https://github.com/COMP90082-2023-SM1/GA-BoxJelly/raw/server-YK/src/cm-backend/target/coachingmate-0.0.1-SNAPSHOT.jar
```

4. Run the jar file: Now you can run the downloaded jar file. Use the following command:

```
java -jar coachingmate-0.0.1-SNAPSHOT.jar
```

If you want to run the jar file in the background and keep it running after closing the terminal, you can use the `nohup` command:

```
nohup java -jar coachingmate-0.0.1-SNAPSHOT.jar &
```

3. FrontEnd:

Run locally

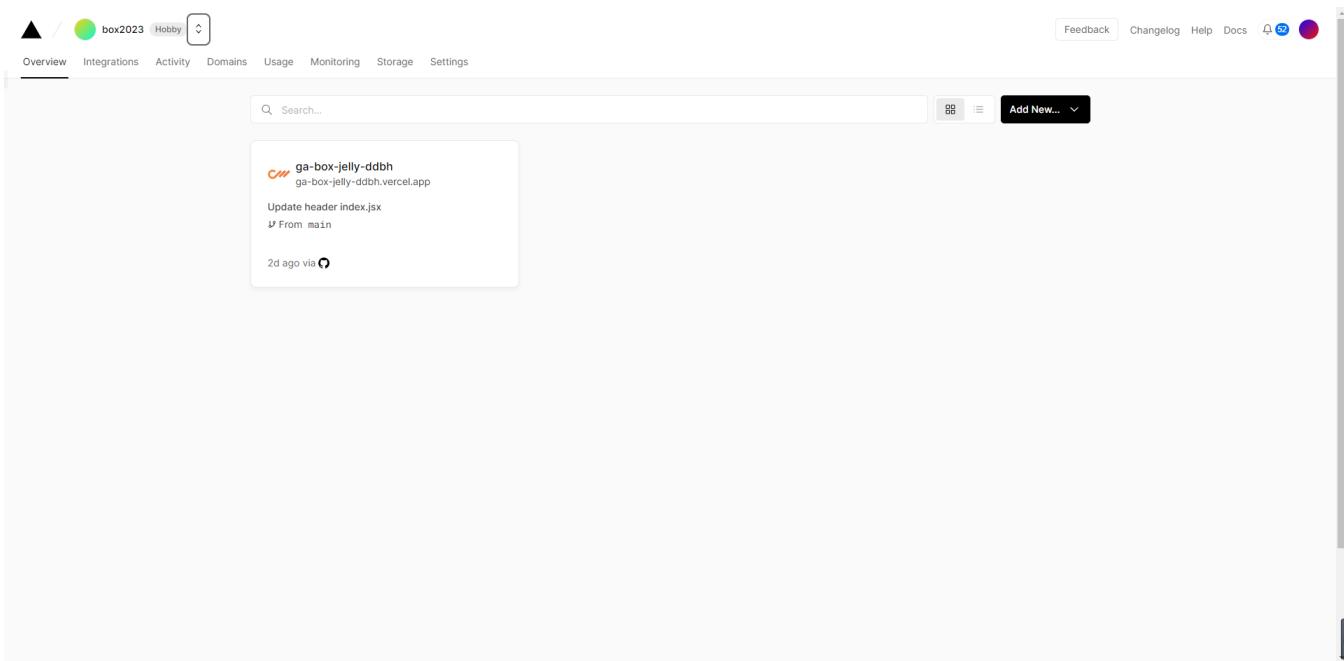
required: pre-installed: Nodejs V16.19.1

1. Navigate to `src\cm-frontend-react` folder
2. Run `npm install`
3. Run `npm start`

Online

Deploy online

1. Create a new project on Vercel



2. Connect it with Github

Let's build something new.

To deploy a new Project, import an existing Git Repository or get started with one of our Templates.

The image shows two side-by-side interface panels. The left panel is titled 'Import Git Repository' and features a search bar at the top. Below the search bar is a dropdown menu showing 'COMP90082-2023-SM1' selected. A list of repositories follows, with 'KevinZhoulk' and 'COMP90082-2023-SM1' highlighted. Other items include '+ Add GitHub Account', 'Switch Git Provider', 'comp90082-2023-sm1-resources · 50d ago', and 'FA-Web-App · 48d ago', each with an 'Import' button. At the bottom is a link 'Import Third-Party Git Repository →'. The right panel is titled 'Clone Template' and displays four template cards: 'NEXT.js' (with a preview showing a dark theme), 'SvelteKit' (with a preview showing a 'WELCOME' screen), 'Nuxt.js' (with a preview showing a dark theme), and 'Vite' (with a preview showing a yellow logo). Below the templates is a link 'Browse All Templates →'.

3. Import the required repository

The screenshot shows two main sections: 'Import Git Repository' and 'Clone Template'.

Import Git Repository: This section displays a list of repositories from a dropdown menu set to 'COMP90082-2023-SM1'. A search bar is present above the list. The first item, 'GA-BoxJelly' (updated 14d ago), is highlighted with a red border and has an 'Import' button to its right. Other items include 'PR-Bluering' (10d ago), 'comp90082-2023-sm1-resources' (50d ago), and 'FA-Web-App' (48d ago), each with an 'Import' button.

Clone Template: This section shows four template cards: 'NEXT.js' (with a preview showing a 'WELCOME' page), 'SvelteKit' (with a preview showing a 'Hello World' page), 'Nuxt.js' (with a preview showing a 'Hello You 3 + 0hr' page), and 'Vite' (with a preview showing a 'V' logo). Below these cards is a link 'Browse All Templates →'.

4. Select the source code folder

The screenshot shows the 'Configure Project' dialog open over the main application interface.

Main Application Interface: On the left, there's a sidebar with 'Configure Project' selected and a 'GIT REPOSITORY' section showing 'COMP90082-2023-SM1/GA-BoxJelly' with branches 'main' and 'J'. Below it are links to 'Import a different Git Repository' and 'Browse Templates'.

Configure Project Dialog: The dialog title is 'Configure Project'. It has a 'Project Name' field and a 'Root Directory' section. The 'Root Directory' section contains a tree view of directory structures under 'GA-BoxJelly'. One directory, 'cm-frontend-react', is highlighted with a red border and has a blue flower icon next to it, indicating it is selected. Buttons at the bottom of the dialog are 'Cancel' and 'Continue'.

Note:

Change the build command to `npm run build`

Change the install Command to `npm install`

Project Name
ga-box-jelly-zub9

Framework Preset
Create React App

Root Directory
src/cm-frontend-react Edit

Build and Output Settings

Build Command ?
npm run build OVERRIDE

Output Directory ?
build OVERRIDE

Install Command ?
npm install OVERRIDE

> Environment Variables

Deploy

5. Click the Deploy button.

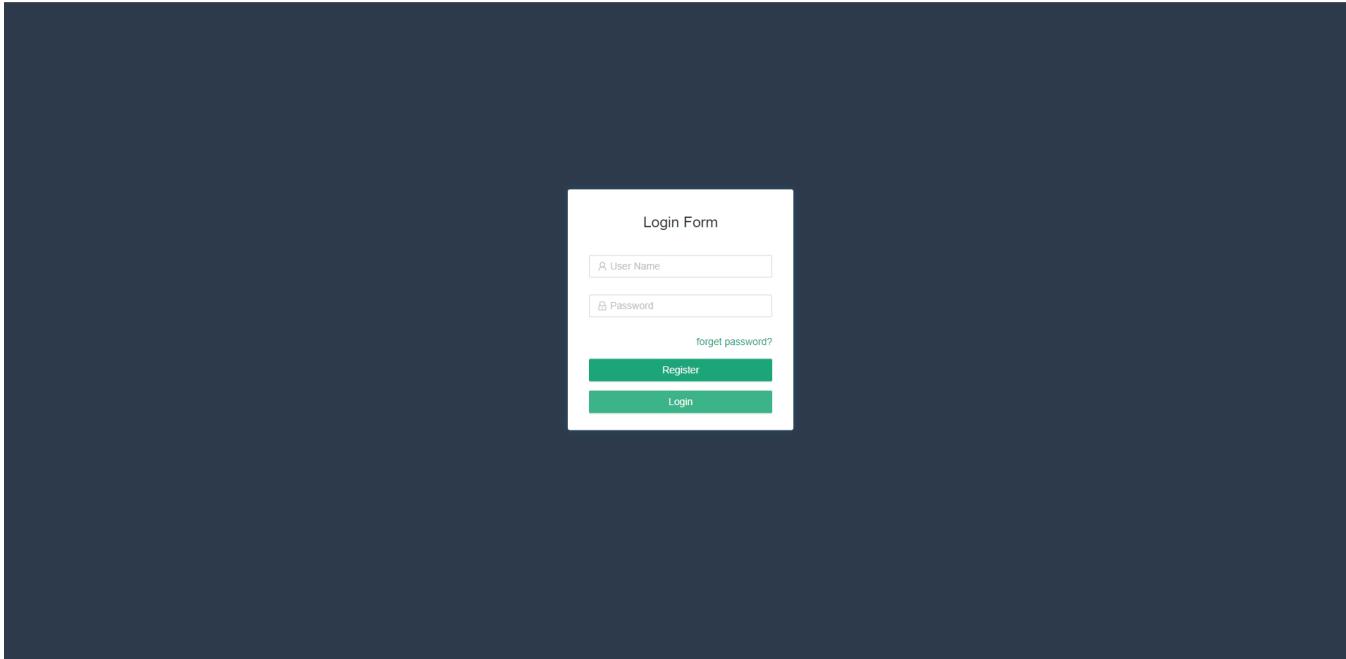
3. Remote Backend Deployment (in case you want to deploy the product online):

1. Configure src/main/resources/application-dev.properties
 - a. add this line to make your backend access remotely: `server.address=0.0.0.0`
 - b. change callBackURL.url
 - c. configure oauth.consumerkey and oauth.consumerSecret (and set up endpoint urls in the garmin api tool)
 - d. change your database url
 - e. add your own smtp service
2. In src/main/java/coachingmateanalytics/coachingmate/service/SendEmail.java
 - a. Modify url in sendResetEmail
3. In src/cm-frontend-react/src/utils/request.js
 - a. Change baseURL in line 13 to your backend url

User guide

1.0 User Register & Connect to Garmin

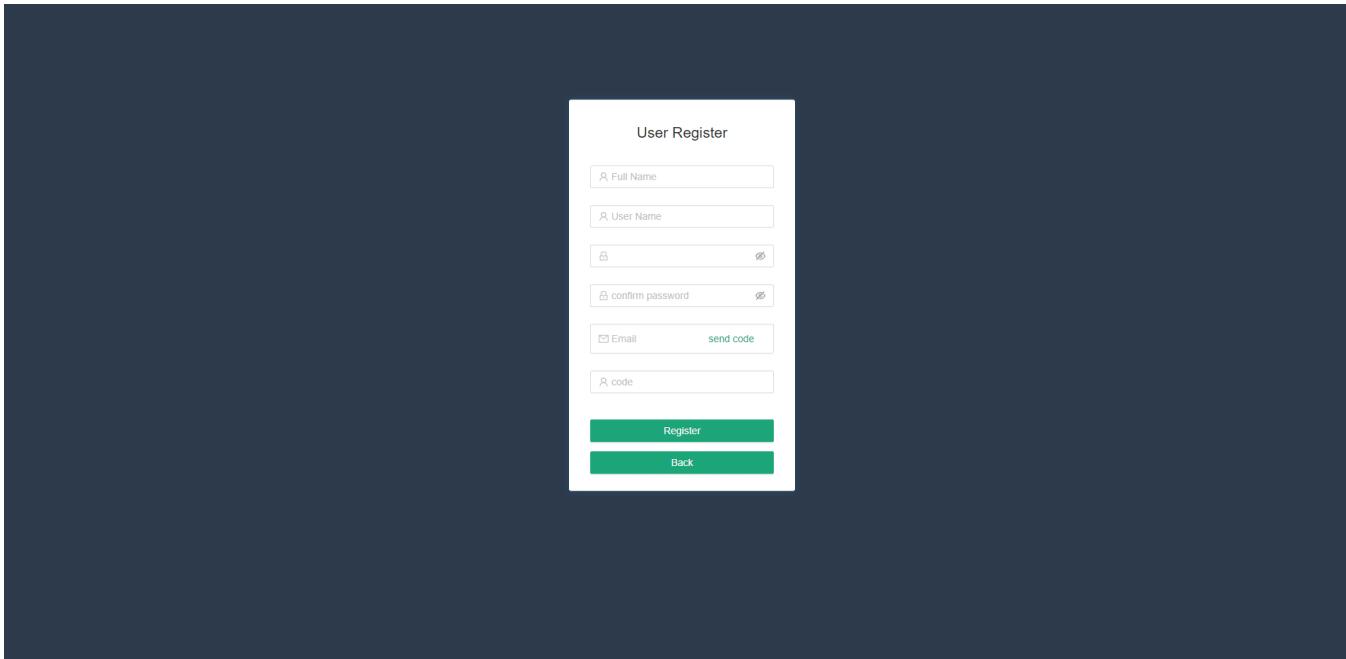
1) Click the Register button



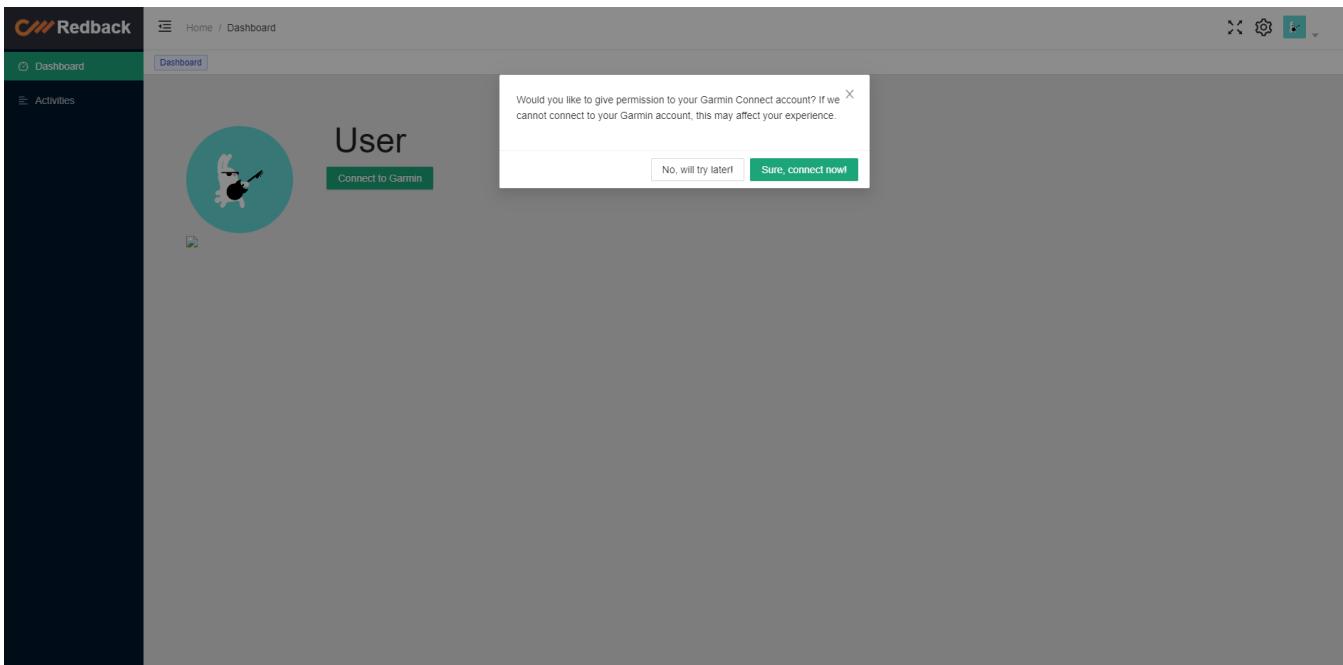
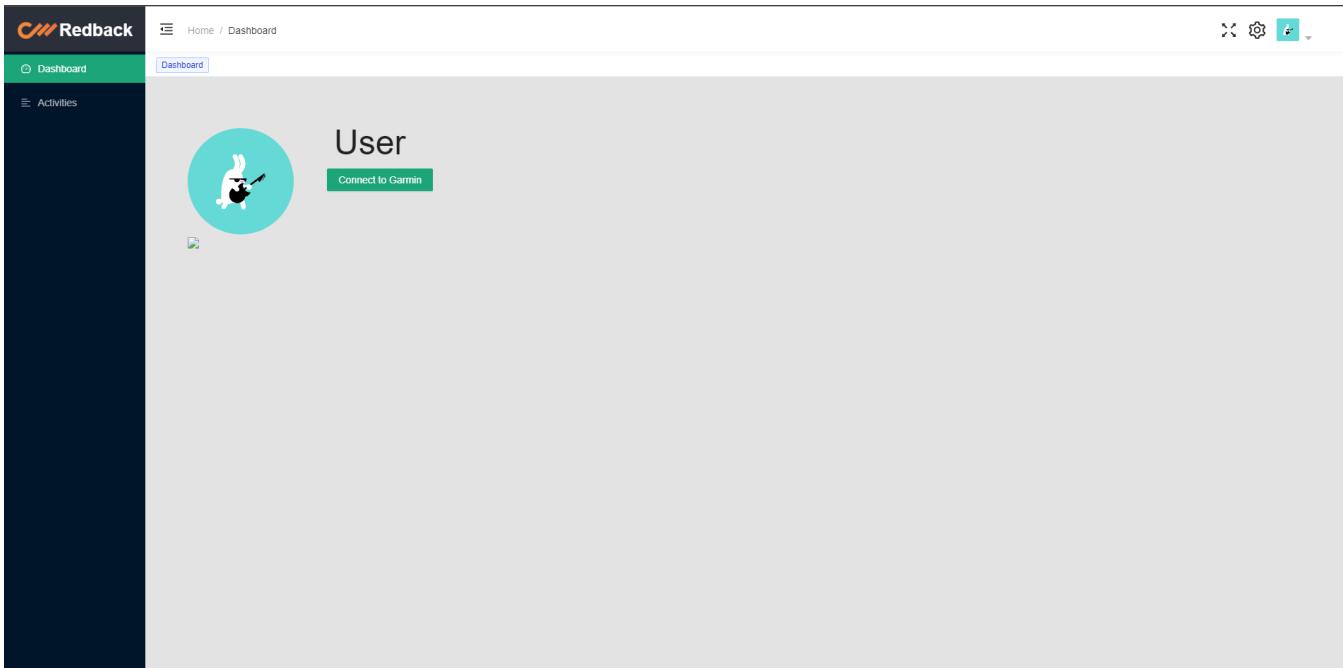
2) Fill in the form, including the Email,click the send code button.

Go to your email, find the verification code sent by coachingMate.

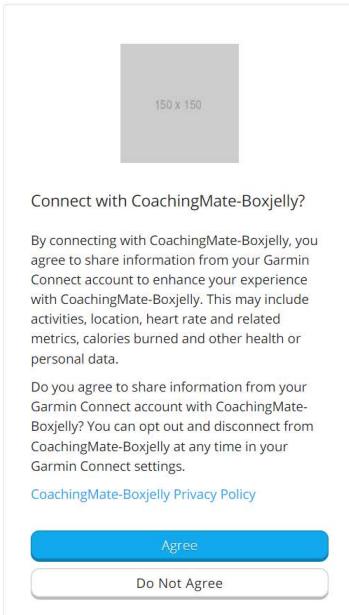
Then get back to the register web, fill in the verification code, finally click Register Button.



3) Click connect to Garmin, then choose to connect now



4) Fill in the form and agree on the Policy



Connect with CoachingMate-Boxjelly?

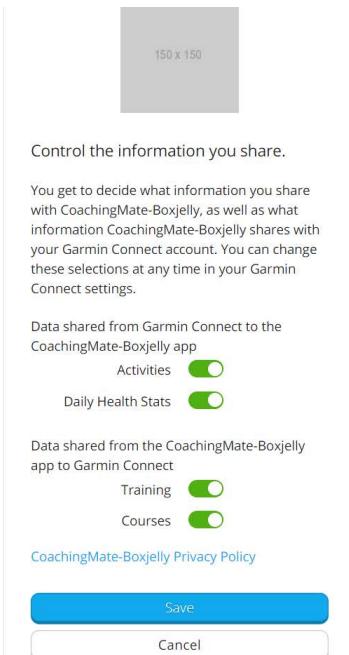
By connecting with CoachingMate-Boxjelly, you agree to share information from your Garmin Connect account to enhance your experience with CoachingMate-Boxjelly. This may include activities, location, heart rate and related metrics, calories burned and other health or personal data.

Do you agree to share information from your Garmin Connect account with CoachingMate-Boxjelly? You can opt out and disconnect from CoachingMate-Boxjelly at any time in your Garmin Connect settings.

[CoachingMate-Boxjelly Privacy Policy](#)

Agree

Do Not Agree



Control the information you share.

You get to decide what information you share with CoachingMate-Boxjelly, as well as what information CoachingMate-Boxjelly shares with your Garmin Connect account. You can change these selections at any time in your Garmin Connect settings.

Data shared from Garmin Connect to the CoachingMate-Boxjelly app

Activities

Daily Health Stats

Data shared from the CoachingMate-Boxjelly app to Garmin Connect

Training

Courses

[CoachingMate-Boxjelly Privacy Policy](#)

Save

Cancel



Connect with CoachingMate-Boxjelly?

By connecting with CoachingMate-Boxjelly, you agree to share information from your Garmin Connect account to enhance your experience with CoachingMate-Boxjelly. This may include activities, location, heart rate and related metrics, calories burned and other health or personal data.

Do you agree to share information from your Garmin Connect account with CoachingMate-Boxjelly? You can opt out and disconnect from CoachingMate-Boxjelly at any time in your Garmin Connect settings.

[CoachingMate-Boxjelly Privacy Policy](#)

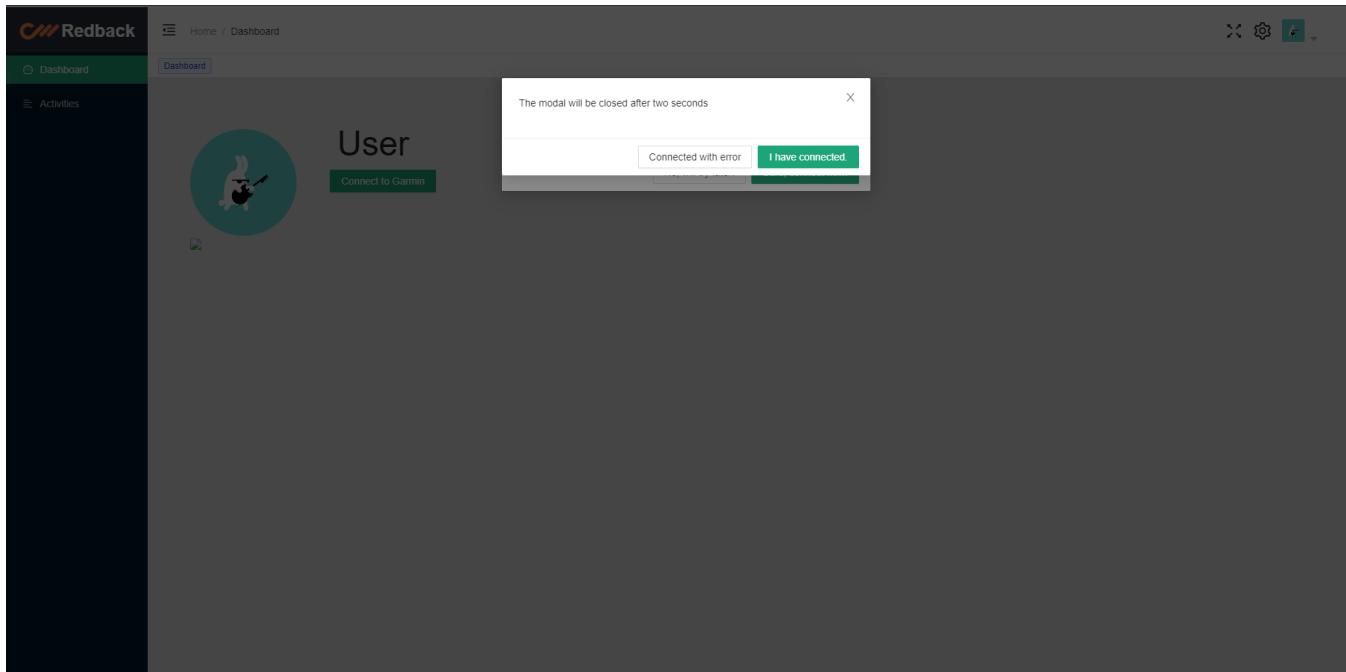
Garmin Account Sign-In

Email

Password ([Forgot?](#))

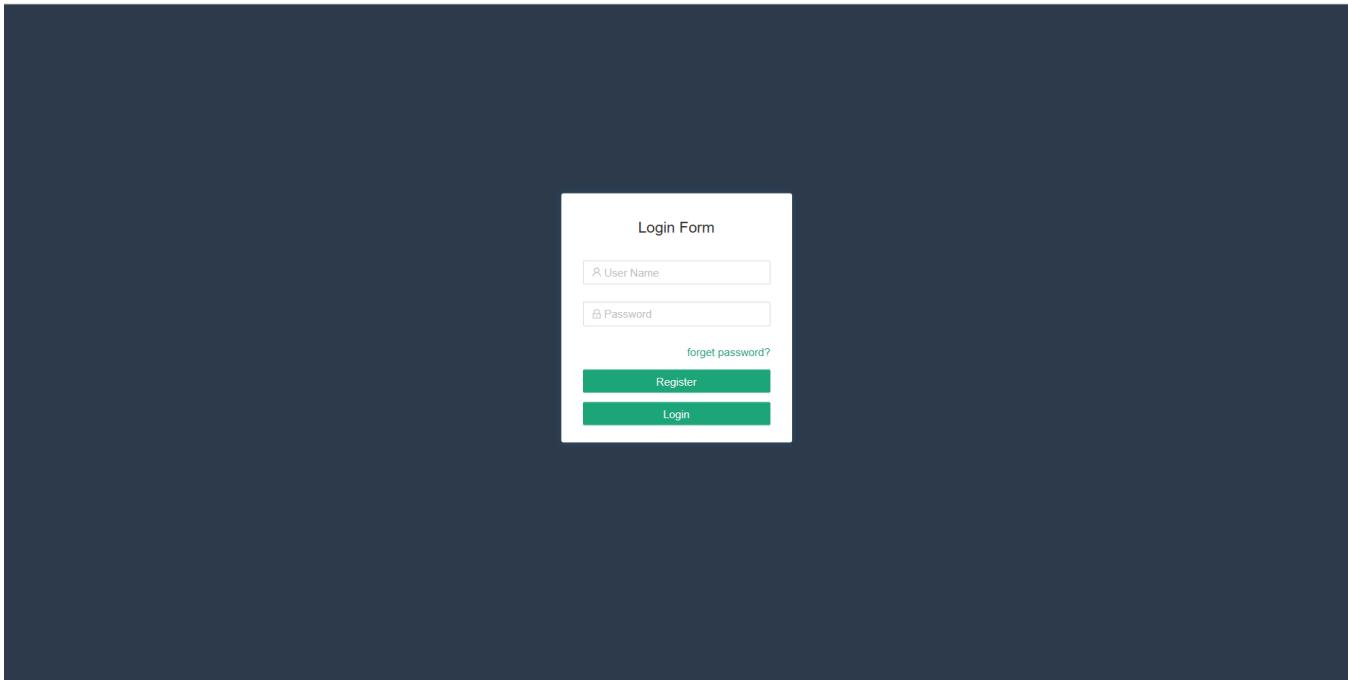
Remember Me

5) Click I have connected button



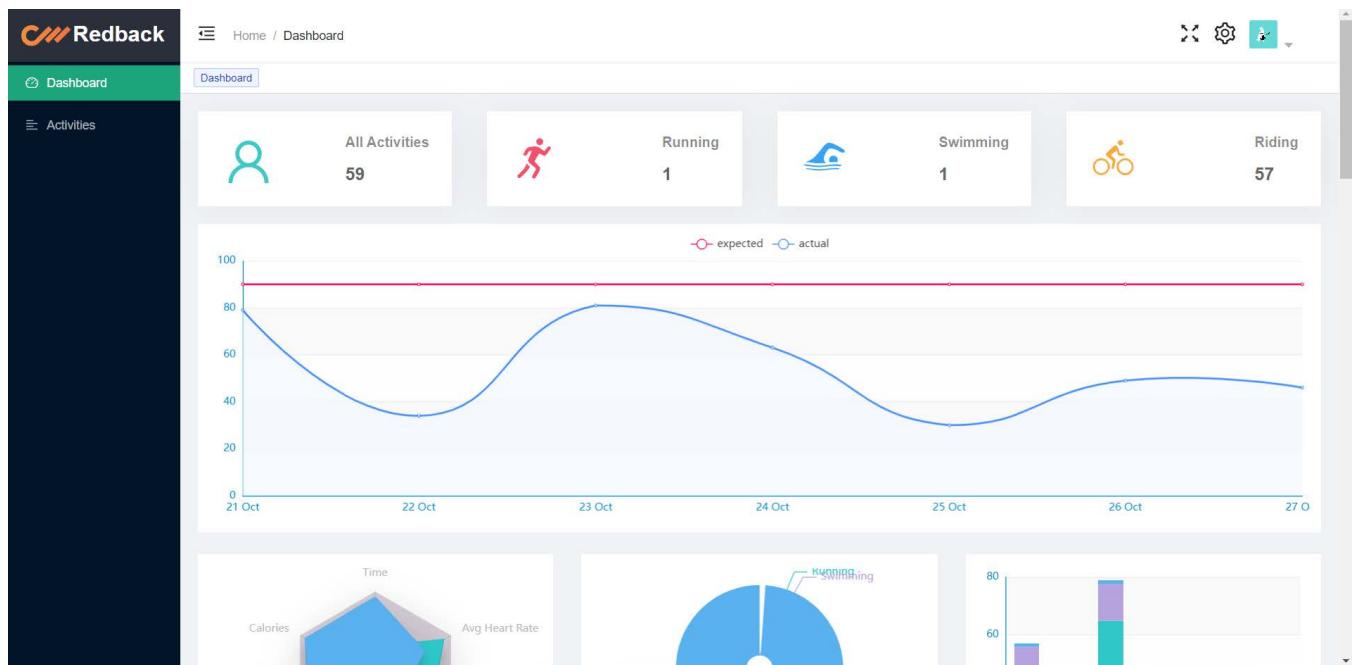
2.0 User login & View Activity

1) Click the activity button on the left



2.2 View activity list

1) Click the activity button on the left



Redback

Home / Activities

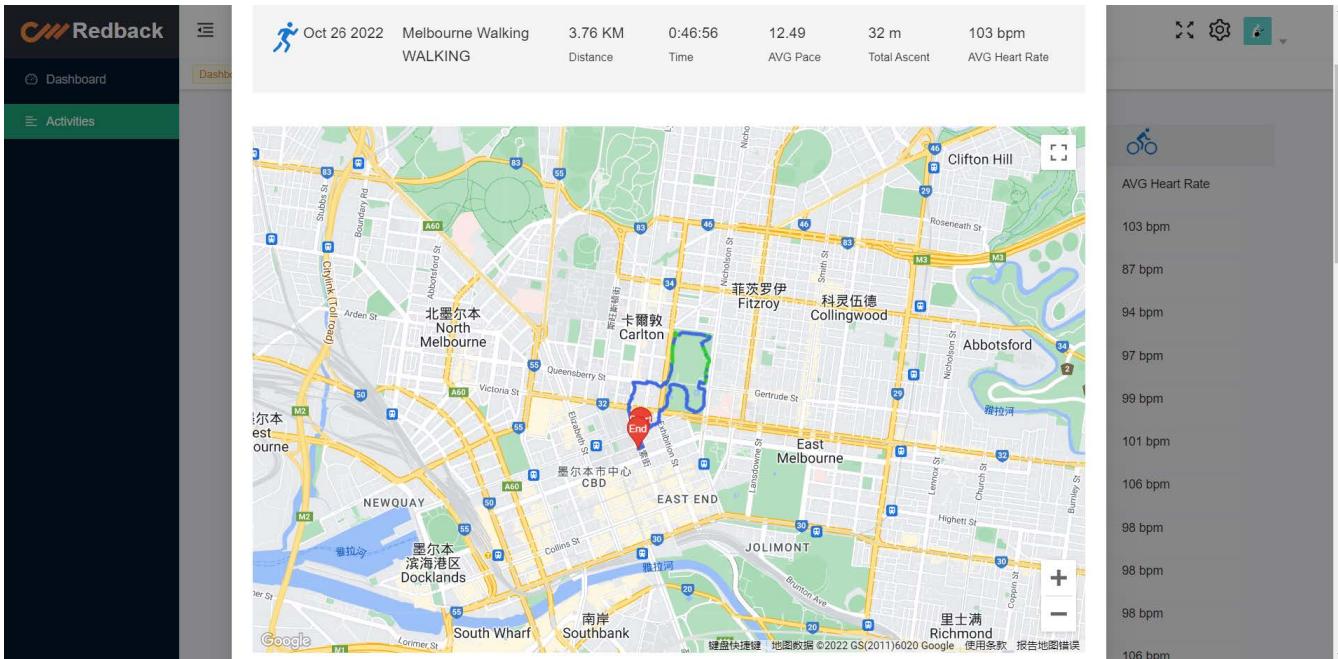
Dashboard Activities

All

Activity	Distance	Time	Avg Pace	Total Ascent	Avg Heart Rate
Oct 26 2022 Melbourne Walking WALKING	3.76 KM	0:46:56	12.49	32 m	103 bpm
Oct 25 2022 Melbourne Walking WALKING	4.17 KM	0:49:53	11.95	82 m	87 bpm
Oct 24 2022 Melbourne Walking WALKING	1.64 KM	0:22:17	13.61	59 m	94 bpm
Oct 24 2022 Melbourne Walking WALKING	0.61 KM	0:08:24	13.79	21 m	97 bpm
Oct 23 2022 Melbourne Walking WALKING	4.74 KM	1:03:06	13.32	73 m	99 bpm
Oct 22 2022 Melbourne Walking WALKING	3.80 KM	1:21:25	21.45	32 m	101 bpm
Oct 21 2022 Melbourne Walking WALKING	1.93 KM	0:34:40	17.94	16 m	106 bpm
Oct 20 2022 Melbourne Walking WALKING	14.04 KM	1:19:41	5.67	194 m	98 bpm
Oct 19 2022 Melbourne Walking WALKING	3.95 KM	0:55:25	14.03	76 m	98 bpm
Oct 17 2022 Melbourne Walking WALKING	2.34 KM	0:30:24	12.97	60 m	98 bpm
Oct 17 2022 Melbourne Walking	1.70 KM	0:21:09	12.44	34 m	106 bpm

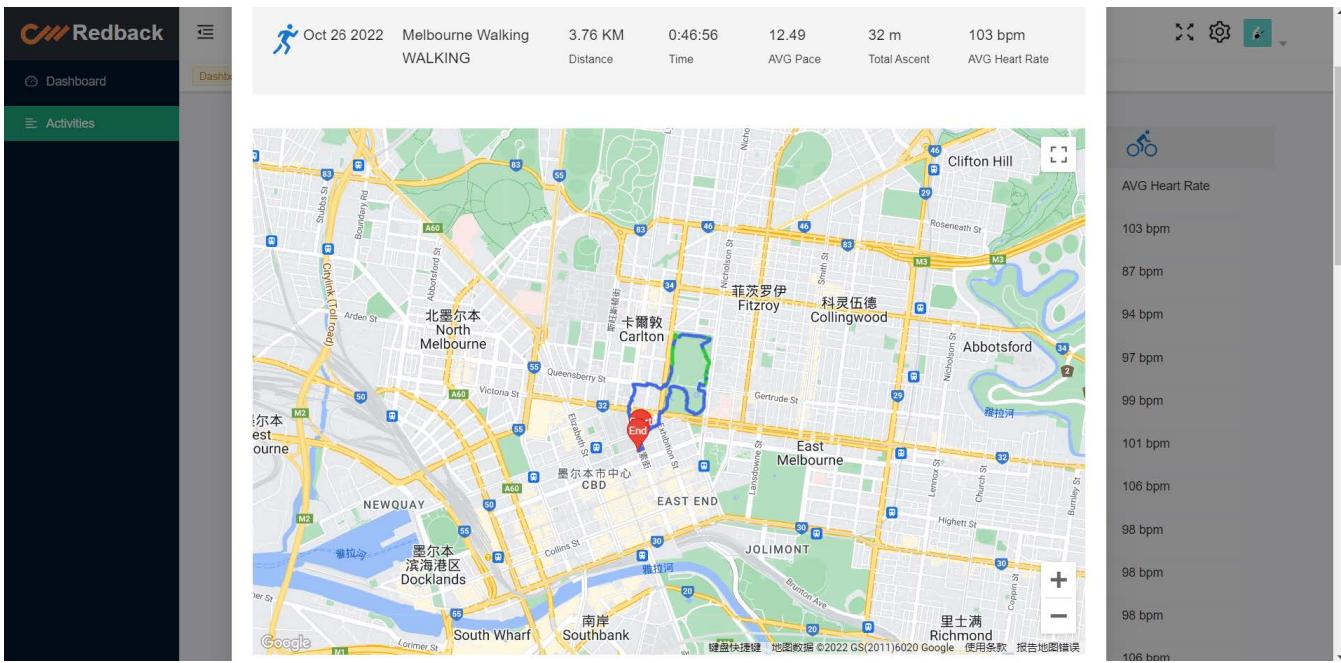
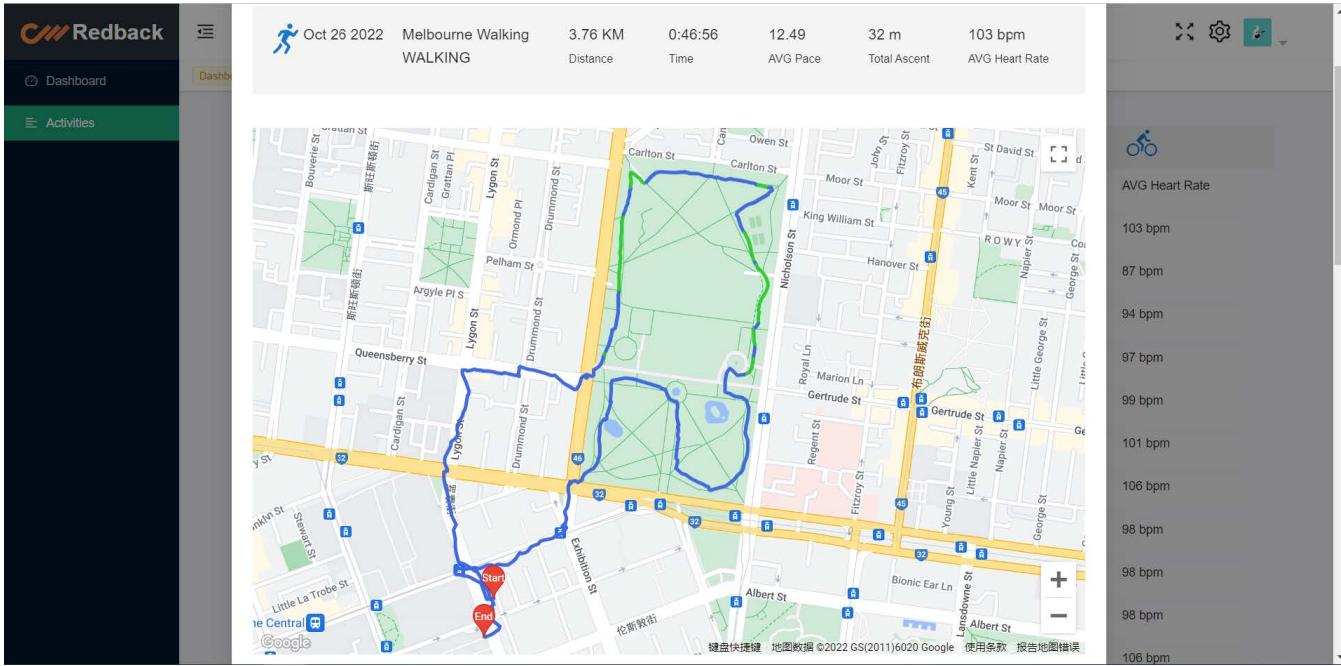
2.3 View basic data

1) Choose one activity and then view the basic data.



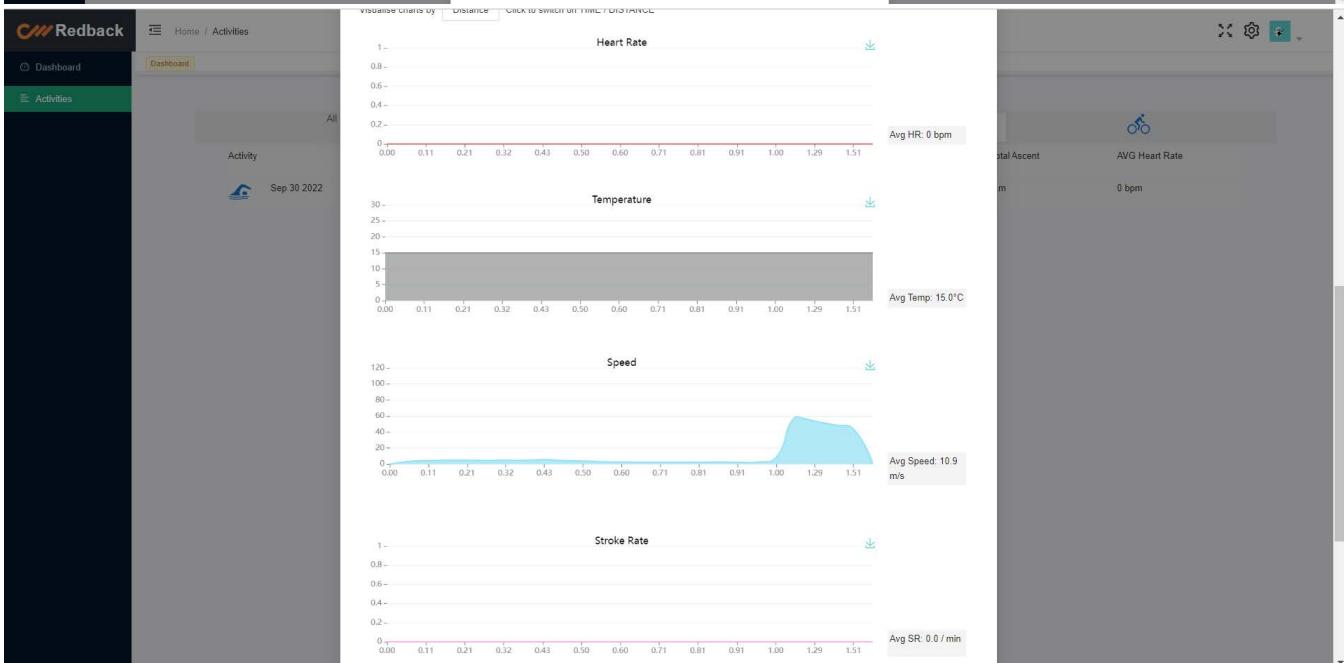
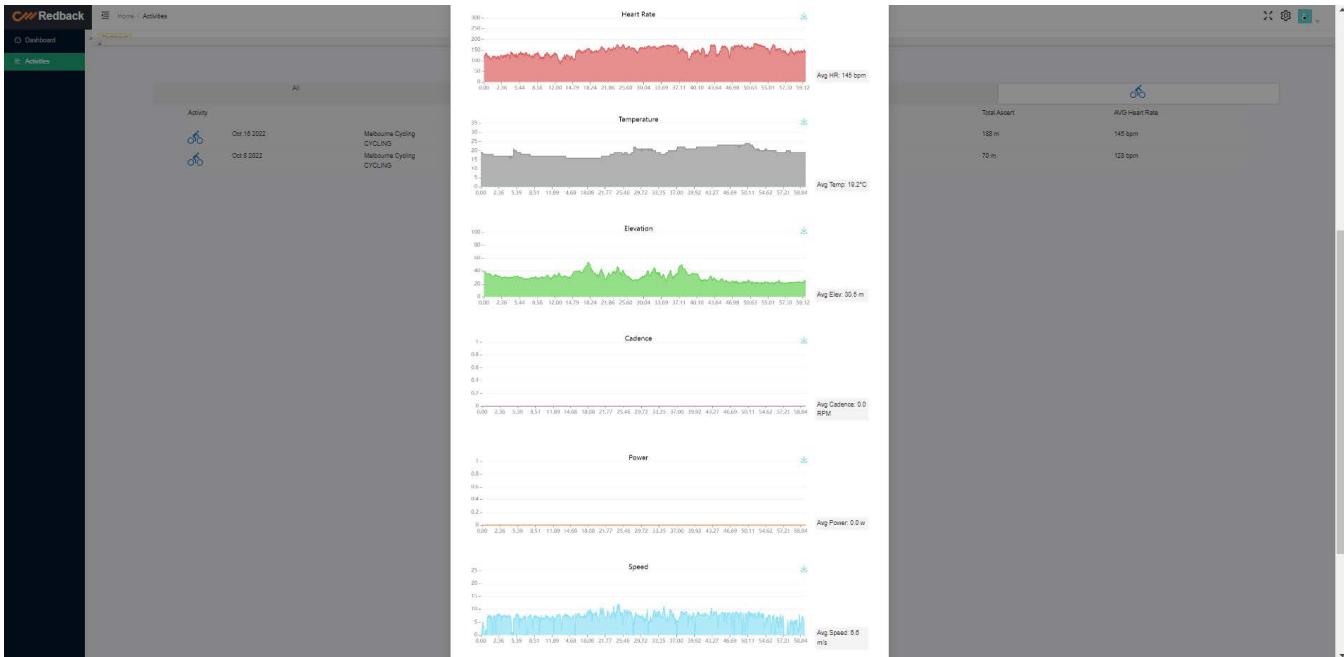
2.4 View heat map

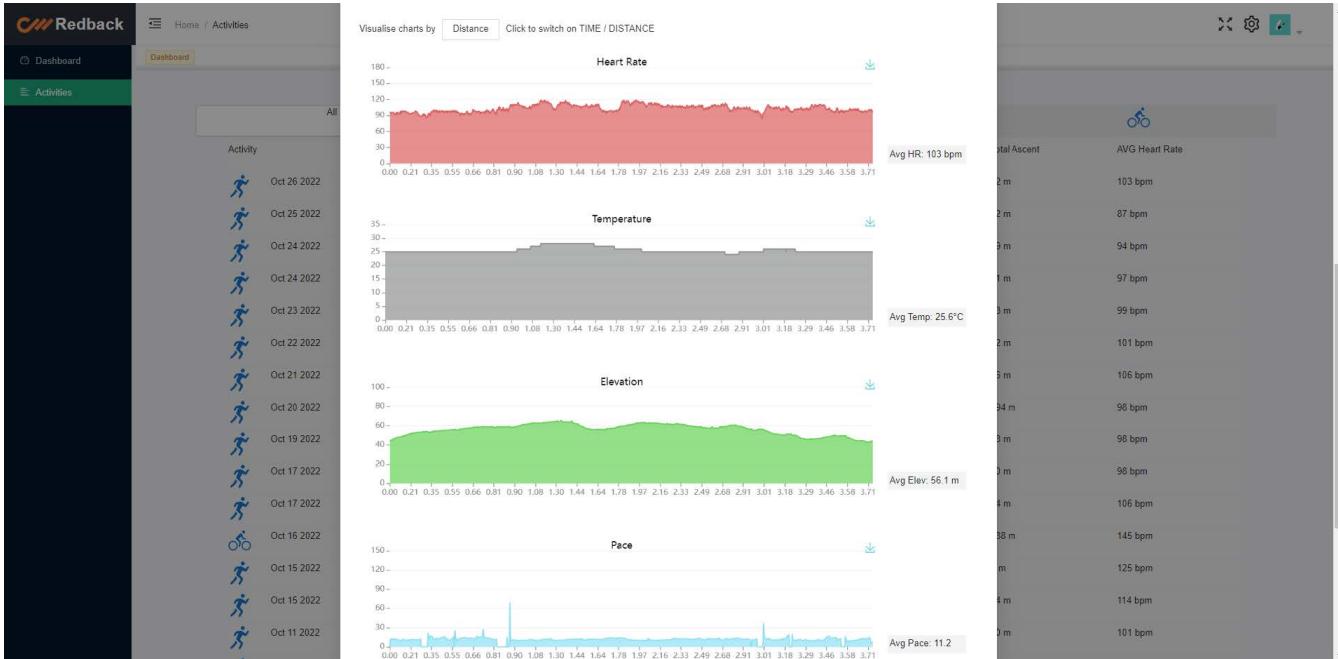
- 1) Choose one of the activities and then view the heat map
- 2) Use the mouse and "+" and "-" functions on the map to move & zoom in and zoom out.
- 3) Colour is the strength of the heart rate



2.5 View the charts

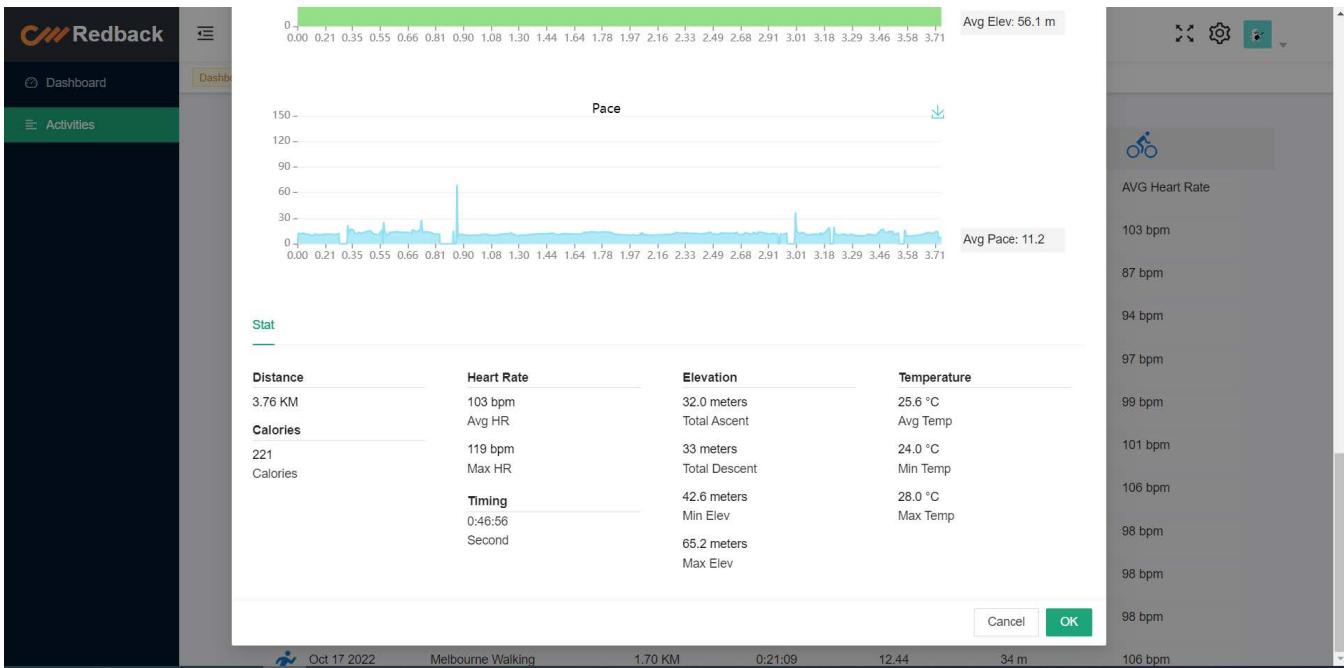
- 1) Choose one of the activities and then view the charts
- 2) Click the distance/ Time button above the chart to view the chart between distance and time;
- 3) View Different charts between Running, Swimming and Riding.





2.6 View the detailed data

1) Choose one of the activities and then view the detailed data



2.7 View activity list by sport type

1) Click the different icons above the list

The screenshot shows the Redback app interface displaying a list of activities. The top navigation bar includes the Redback logo, a dashboard link, and an activities link. Below the navigation, there are three filter icons: a person icon for 'All', a running icon for 'Walking', and a cycling icon for 'Cycling'.

The main content area is a table listing activities:

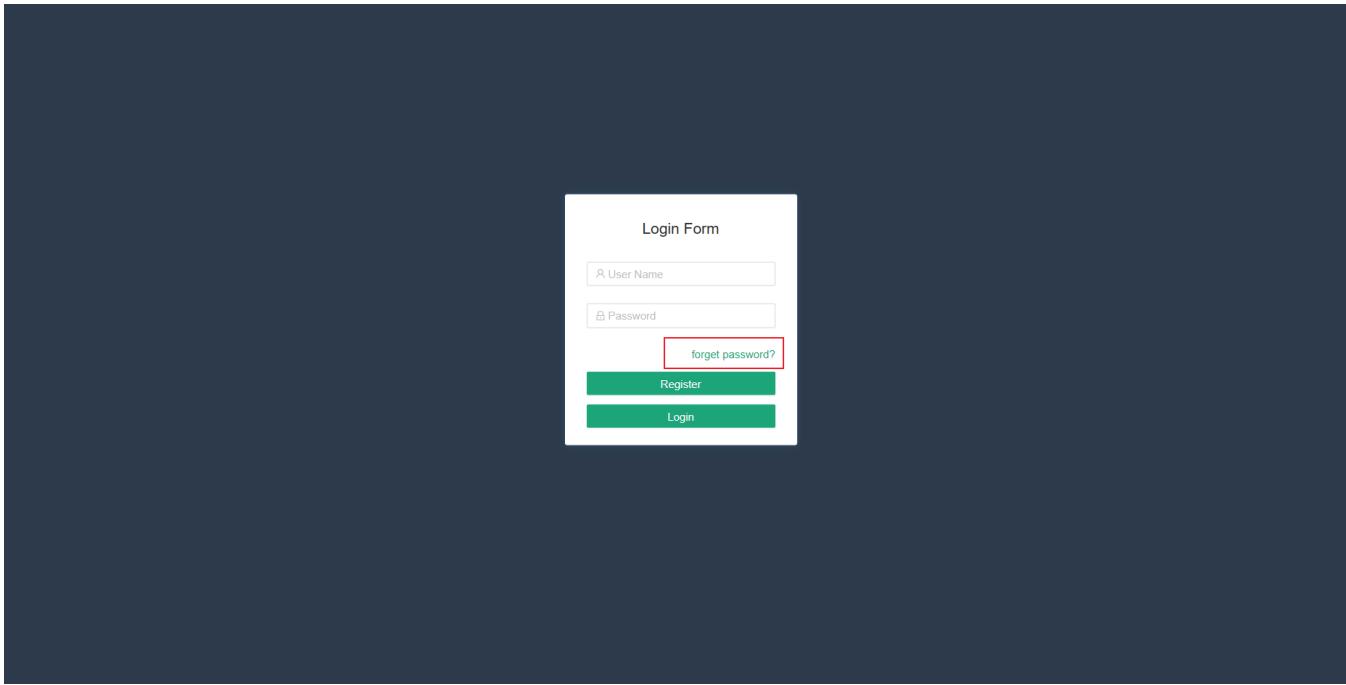
Activity	Distance	Time	AVG Pace	Total Ascent	AVG Heart Rate
Oct 26 2022 Melbourne Walking WALKING	3.76 KM	0:46:56	12.49	32 m	103 bpm
Oct 25 2022 Melbourne Walking WALKING	4.17 KM	0:49:53	11.95	82 m	87 bpm
Oct 24 2022 Melbourne Walking WALKING	1.64 KM	0:22:17	13.61	59 m	94 bpm
Oct 24 2022 Melbourne Walking WALKING	0.61 KM	0:08:24	13.79	21 m	97 bpm
Oct 23 2022 Melbourne Walking WALKING	4.74 KM	1:03:06	13.32	73 m	99 bpm
Oct 22 2022 Melbourne Walking WALKING	3.80 KM	1:21:25	21.45	32 m	101 bpm
Oct 21 2022 Melbourne Walking WALKING	1.93 KM	0:34:40	17.94	16 m	106 bpm
Oct 20 2022 Melbourne Walking WALKING	14.04 KM	1:19:41	5.67	194 m	98 bpm
Oct 19 2022 Melbourne Walking WALKING	3.95 KM	0:55:25	14.03	78 m	98 bpm
Oct 17 2022 Melbourne Walking WALKING	2.34 KM	0:30:24	12.97	60 m	98 bpm
Oct 17 2022 Melbourne Walking	1.70 KM	0:21:09	12.44	34 m	106 bpm

The screenshot shows the CM Redback dashboard. The left sidebar has a dark background with 'CM Redback' logo, 'Dashboard' (selected), and 'Activities'. The main area has a light background with a breadcrumb 'Home / Activities' and a 'Dashboard' button. Below is a table with activity data:

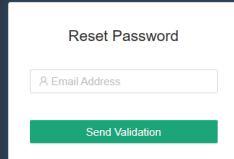
All	Activity	Distance	Time	Avg Pace	Total Ascent	Avg Heart Rate
	Oct 16 2022 Melbourne Cycling CYCLING	59.28 KM	2:28:42	2.51	188 m	145 bpm
	Oct 8 2022 Melbourne Cycling CYCLING	5.04 KM	1:15:52	15.07	70 m	128 bpm

3.1 User Password Reset & Disconnect the Garmin Connect account

1) Click the 'forget Password?' button



2) Fill in your registered email, then click the 'Send Validation' button.



3) Then go to your email find the 'CoachingMate: Reset Password' Email sent by the coachingMate system

You've requested to reset your password:

To continue please click this link:
<https://ga-box-jelly-ddbh.vercel.app/requestReset/reset/?ZW1haWw9ejc5Mzg0NjI1MkAxNjMuY29tJnNIY3VyaXR5PXFrcnZyZW5qaW0=%#reset>
If you did not make this request, please disregard this email.

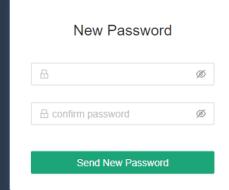
(This is an auto-generated email, please do not reply.)

4) Go to the resetpassword link given by the email

Fill in your new password and confirm it.

Click the 'send new password' button.

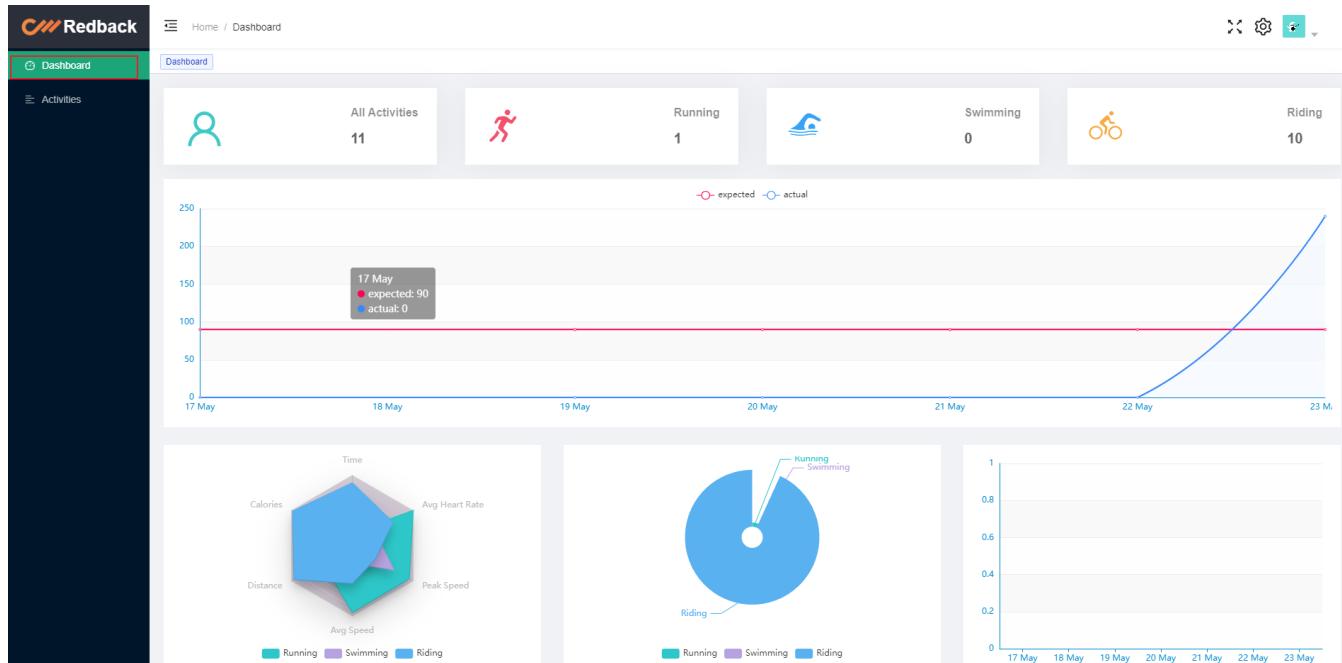
Then you should able to use your new password to login.



3.2 Disconnect the Garmin Connect account

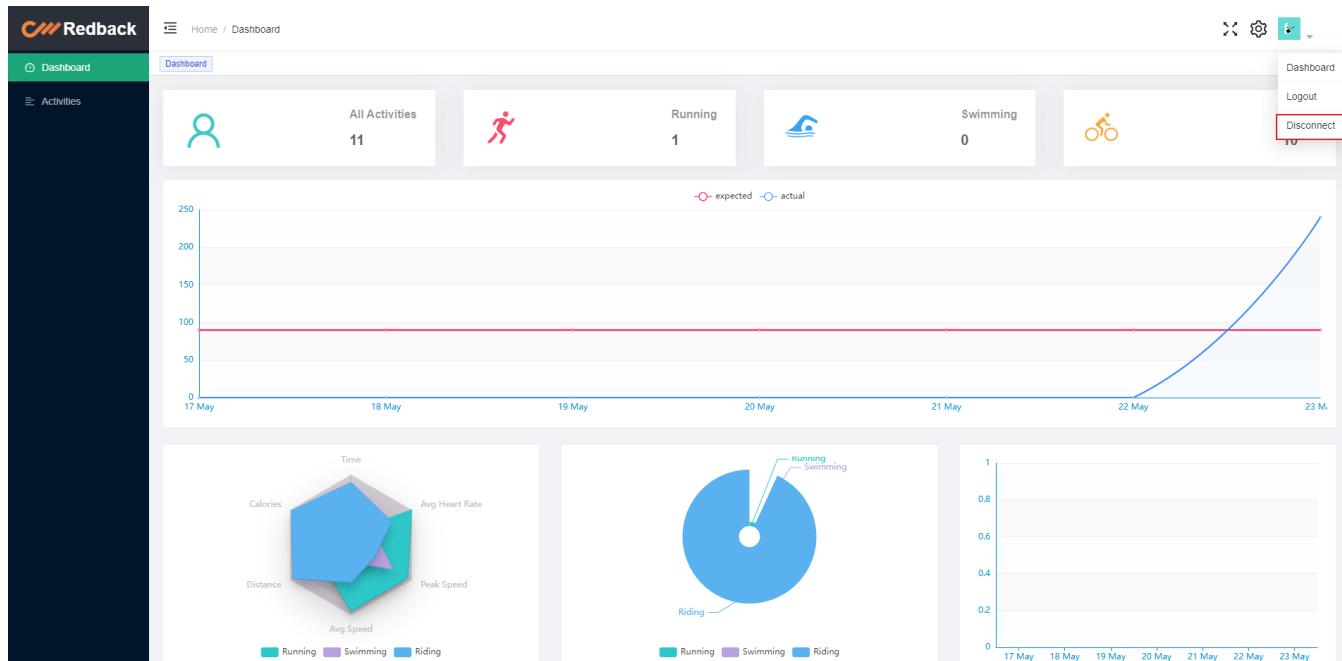
Note: Only the CoachingMate account that have been connected to Garmin Connect account can be disconnect.

- 1) In order to disconnect your Garmin connect account you should go to the Main Dashboard by click the 'Dashboard' button.

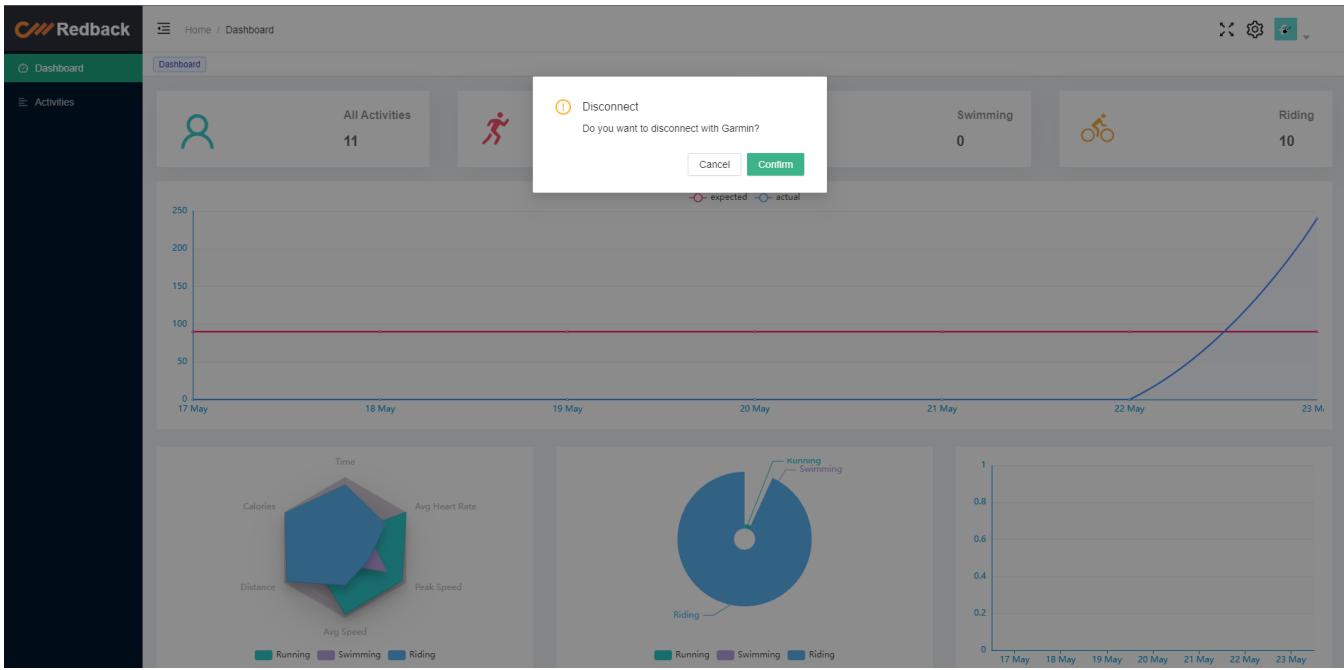


- 2) You should find the 'Disconnect' button by moving your mouse over your avatar.

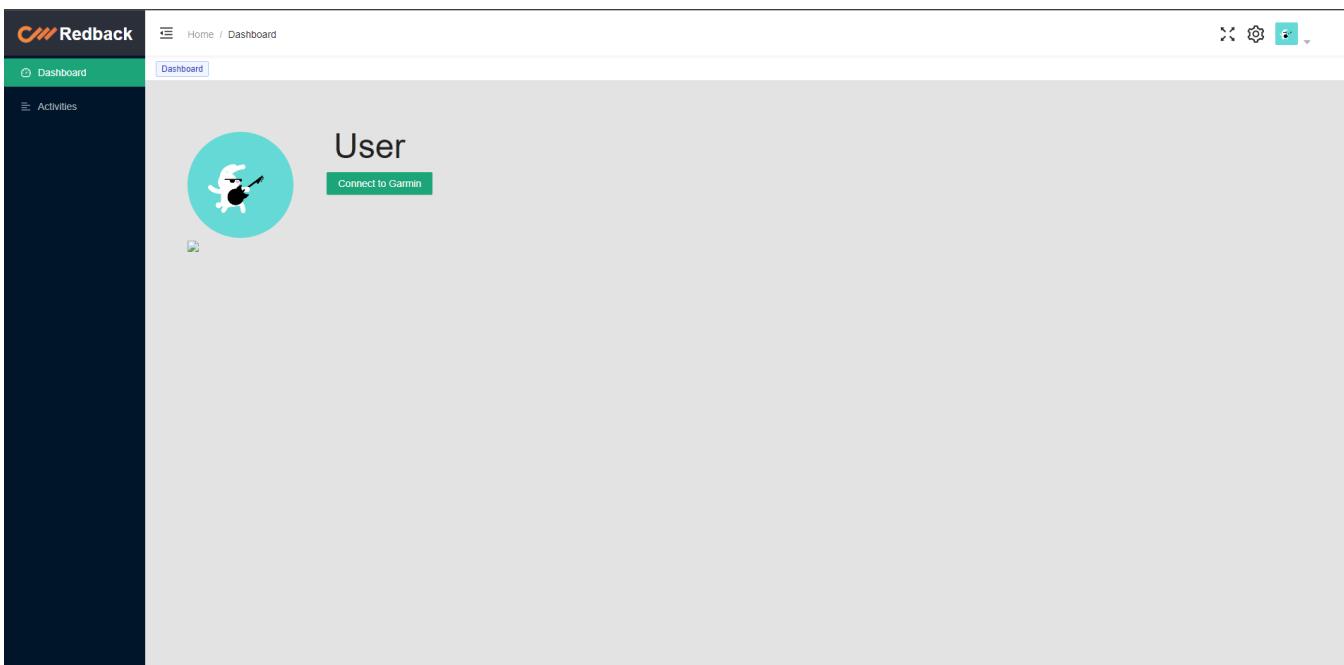
Click the 'Disconnect' button



- 3) Click the confirm button.



4) You should get back to the 'Connect to Garmin' page.



Release History

Issue Type	Issue ID	Issue Title
Sprint 1		
Project Inception & Requirement Documentation	N/A	Project Background
	N/A	Personas
	N/A	Create DO-BE-FEEL list
	N/A	Motivational Mode
	N/A	Confluence Setup and Structuring
	N/A	User Stories
	N/A	Product Backlog
	N/A	Create, structure and organize the project Trello
	N/A	Github Setup and Structuring
Sprint 2		
Basic Development Setup	#2	Initialize frontend
	N/A	deploy MongoDB database and connect to our server
	N/A	deploy backend connect to our server
	N/A	Deploy frontend locally and connect to our sever backend
	N/A	Make a note of any things not working
	N/A	Complete the writing of the user usage rules on the project onboarding page on confluence.
Reorganize the project and solve previous project left security problems and bugs	#3	Do code cleaning for entire project
	N/A	Solve the problem of map in the activity page cannot work.
	N/A	Fix the bug that same email address would cause the error instead of handling the exception.
	N/A	Solve the problem of using plain text in the user login backend
	N/A	Solve the problem of activity Url setting
	N/A	Receiving data from Garmin connect
	N/A	Sprint 2 Fix API Test
Functional Development	#4	Change Garmin connect account
	N/A	Add password constraints in frontend
Sprint 3		
Security improvement	#5	Fix transferring security issue
	N/A	Integrate with Spring Security
	N/A	Add SMTP email server to the backend
System fuction improvement	#6	Receiving data from Garmin connect
	N/A	Disconnect Garmin Connect
	N/A	Change Garmin connect account
	N/A	Reset password function
Product depolymtent	#7	Cloud front-end deployment
Sprint 4		

Final Handover	N/A	User guide
	N/A	Deployment guideline
	N/A	Release Note

Release Note

Release History

1. V1.0 Released on 2023-3-23
 - Deploy previous backend code on server connected to local frontend
 - a. Deploy MongoDB database and connect to server
 - b. Deploy backend connect to server
 - c. Deploy frontend locally and connect to sever backend
2. V2.0 Released on 2023-4-29
 - Fix the entire project program
 - a. Solve the problem of map in the activity page cannot work.
 - b. Fix the bug that same email address would cause the error instead of handling the exception.
 - c. Solve the problem of activity Url setting
 - Ensure the sustainable maintenance of the system.
 - a. Do code cleaning for entire project
 - b. Fix API Test
 - Improve system security
 - a. Solve the problem of using plain text in the user login backend
 - Functional Development
 - a. Add password constraints in frontend
3. V3.0 Released on 2023-5-24
 - Security improvement
 - a. Fix transferring security issue
 - b. Integrate with Spring Security
 - c. Add SMTP email server to the backend
 - System function improvement
 - a. Deploy the API to receive data from Garmin connect
 - b. Deploy the function (Disconnect Garmin Connect)
 - c. Deploy the function (Change Garmin connect account)
 - d. Deploy the function (Reset password function)
 - Product deployment
 - a. Deploy the frontend on Vercel

Commit history

Github Account	Members	Date	Commits detail	Version
KevinZhoulk	LingKang Zhou	9/03/2023	Initial commit	
edwinyao121	YuHang Yao	21/03/2023	existing code	
edwinyao121	YuHang Yao	23/03/2023	add pdf	
edwinyao121	YuHang Yao	23/03/2023	confluence pdf revision	
edwinyao121	YuHang Yao	23/03/2023	add checklist and confluence pdf	
edwinyao121	YuHang Yao	23/03/2023	2nd readme revision	
edwinyao121	YuHang Yao	23/03/2023	1st time readme	
edwinyao121	YuHang Yao	23/03/2023	1st time readme	V1.0
edwinyao121	YuHang Yao	24/03/2023	change some scope feature	
KevinZhoulk	LingKang Zhou	29/03/2023	code clean for ActivityDao.java	
KevinZhoulk	LingKang Zhou	29/03/2023	code clean & restructure for RegistryController.java	
KevinZhoulk	LingKang Zhou	29/03/2023	code clean for OAuthController.java	
KevinZhoulk	LingKang Zhou	29/03/2023	code clean for LoginController.java	
KevinZhoulk	LingKang Zhou	29/03/2023	code clean for GarminPushController	
KevinZhoulk	LingKang Zhou	29/03/2023	code clean for GarminPushController	
KevinZhoulk	LingKang Zhou	29/03/2023	Simplification refactoring methods @RequestMapping	
Jules	XiuYuan Zhu	29/03/2023	change url	
Yuhang Yao	Yuhang Yao	30/03/2023	test password encryption	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for UserPartner.java	

KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Summary.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Session.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for UserServiceImpl.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for ActivityServiceImpl.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Samples.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for RequestToken.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Record.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Program.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Program_status.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Planner.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Phase.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Laps.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Group.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Exercise.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for DashboardStastic.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Coach.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Badge.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Athlete.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for ActivityFile.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for ActivityDetailsBean.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for ActivityDetails.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for ActivityBean.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for Activity.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for UserService.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for OAuthService.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for OAuthConfiguration.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for HttpRequestAdapter.java	
KevinZhoulk	LingKang Zhou	31/03/2023	no change for EmailService.java resolve it later	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for ActivityService.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for UserDaoImpl.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for UserDao.java	
KevinZhoulk	LingKang Zhou	31/03/2023	text message	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean & restructure for TokenDao.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for DashboardStatisticsDao.java	
KevinZhoulk	LingKang Zhou	31/03/2023	code clean for ActivityDaoImpl.java	
SherwinZ-G	XiuYuan Zhu	31/03/2023	test change on username	
Jules	XiuYuan Zhu	31/03/2023	test change	
Jules	XiuYuan Zhu	31/03/2023	test change	
Geralt1209	YuKun Li	1/04/2023	Merge branch 'encryption_yyh' of https://github.com/COMP90082-2023-SM1/GA-BoxJelly into server-YK	
edwinyao121	YuHang Yao	1/04/2023	constrain the password(length >8 and include at least 1 upper and lower letter)	
Geralt1209	YuKun Li	1/04/2023	remote settings	
edwinyao121	YuHang Yao	1/04/2023	change to activityDetail[]	
Geralt1209	YuKun Li	2/04/2023	Update server backend and add registration exception handling	
Geralt1209	YuKun Li	2/04/2023	Update server backend and add registration exception handling	
SherwinZ-G	XiuYuan Zhu	2/04/2023	add password validate rules	
Geralt1209	YuKun Li	3/04/2023	Attempt add disconnect function	
Geralt1209	YuKun Li	3/04/2023	Attempt add disconnect function	

Geralt1209	YuKun Li	3/04/2023	Attempt add disconnect function	
Geralt1209	YuKun Li	3/04/2023	Attempt add disconnect function	
Geralt1209	YuKun Li	3/04/2023	email	
Geralt1209	YuKun Li	3/04/2023	Attempt add disconnect function	
SherwinZ-G	XiuYuan Zhu	3/04/2023	handle email error	
SherwinZ-G	XiuYuan Zhu	3/04/2023	handle email error	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for DateUtils.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for Consts.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for LogAspectHandler.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for SessionIntercepter.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for CustomWebMvcConfig.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for AuthInterceptor.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for GlobalExceptionHandler.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for BusinessException.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for ResponseCode.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for SyncConfig.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for Swagger2Config.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for ServerConfig.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for SecurityConfig.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for AuthCheck.java	
KevinZhoulk	LingKang Zhou	5/04/2023	code clean for CoachingmateApplication.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for Tools.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for TokenSecret.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for Sorting.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for SearchRequest.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for ResponseHandler.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for Response.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for Request.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for Paging.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for MultiRequest.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for JsonUtils.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for JsonUtil.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for FileUtils.java	
KevinZhoulk	LingKang Zhou	6/04/2023	code clean for ErrorResponse.java	
edwinyao121	YuHang Yao	20/04/2023	Merge branch 'server-YK' into test_case_sprint2	
edwinyao121	YuHang Yao	20/04/2023	Merge remote-tracking branch 'origin/server-YK' into test_case_sprint2	
Geralt1209	YuKun Li	20/04/2023	fix map	
edwinyao121	YuHang Yao	20/04/2023	Merge remote-tracking branch 'origin/encryption_yyh' into test_case_sprint2	
edwinyao121	YuHang Yao	20/04/2023	add gitignore	
Geralt1209	YuKun Li	20/04/2023	map	
edwinyao121	YuHang Yao	21/04/2023	fix lap class for test	
edwinyao121	YuHang Yao	21/04/2023	continue adding ActivityDataRetrieveControllerTest	
edwinyao121	YuHang Yao	21/04/2023	continue adding ActivityDataRetrieveControllerTest	
edwinyao121	YuHang Yao	21/04/2023	fix lap class for test	
edwinyao121	YuHang Yao	21/04/2023	add ActivityDataRetrieveControllerTest	
edwinyao121	YuHang Yao	23/04/2023	create DashboardStastic toString in order to test.	
edwinyao121	YuHang Yao	23/04/2023	create DashboardStastic toString in order to test.	

edwinyao121	YuHang Yao	23/04/2023	create DashboardStastic toString in order to test.	
edwinyao121	YuHang Yao	23/04/2023	create DashboardStastic toString in order to test.	
edwinyao121	YuHang Yao	23/04/2023	create DashboardStastic toString in order to test.	
edwinyao121	YuHang Yao	23/04/2023	continue adding GetDashboardStatisticsByAccessToken test	
edwinyao121	YuHang Yao	24/04/2023	finish RegistryControllerTest and LoginControllerTest	
edwinyao121	YuHang Yao	24/04/2023	finish RegistryControllerTest and LoginControllerTest	
edwinyao121	YuHang Yao	24/04/2023	finish RegistryControllerTest and LoginControllerTest	
edwinyao121	YuHang Yao	24/04/2023	finish RegistryControllerTest and LoginControllerTest	
edwinyao121	YuHang Yao	24/04/2023	finish ActivityDataRetrieveControllerTest	
edwinyao121	YuHang Yao	25/04/2023	need change	
edwinyao121	YuHang Yao	25/04/2023	Merge remote-tracking branch 'origin/front_end' into merge-brnch	
edwinyao121	YuHang Yao	25/04/2023	need change	
Geralt1209	YuKun Li	25/04/2023	Merge remote-tracking branch 'origin/test_case_sprint2' into merge-brnch	
SherwinZ-G	XiuYuan Zhu	25/04/2023	add password constraint(longer than 8)	
edwinyao121	YuHang Yao	25/04/2023	finish UserDaoTest and DashboardStatisticsDaoTest and ActivityDaoImplTest	
SherwinZ-G	XiuYuan Zhu	25/04/2023	handle email error	
edwinyao121	YuHang Yao	26/04/2023	fix bug	
edwinyao121	YuHang Yao	26/04/2023	merge test	
edwinyao121	YuHang Yao	26/04/2023	fix bug	
edwinyao121	YuHang Yao	26/04/2023	merge test	
edwinyao121	YuHang Yao	26/04/2023	fix bug	
edwinyao121	YuHang Yao	26/04/2023	merge test	
edwinyao121	YuHang Yao	26/04/2023	fix bug	
edwinyao121	YuHang Yao	26/04/2023	merge test	
edwinyao121	YuHang Yao	26/04/2023	Merge remote-tracking branch 'origin/merge-brnch' into merge-brnch	
edwinyao121	YuHang Yao	26/04/2023	merge test	
edwinyao121	YuHang Yao	26/04/2023	Merge branch 'test_case_sprint2' into merge-brnch	
edwinyao121	YuHang Yao	26/04/2023	finish ActivityServiceImplTest and UserServiceImplTest and generateRequestTokenSecretTest	
edwinyao121	YuHang Yao	26/04/2023	finish TokenDaoTest	
edwinyao121	YuHang Yao	29/04/2023	update the sprint 2 document	
Geralt1209	YuKun Li	29/04/2023	Update package.json	
Geralt1209	YuKun Li	29/04/2023	vercel build	
edwinyao121	YuHang Yao	29/04/2023	add check_list sprint 2 and sprint 2 document	
edwinyao121	YuHang Yao	29/04/2023	update the README.md	
edwinyao121	YuHang Yao	29/04/2023	delete useless log	
edwinyao121	YuHang Yao	29/04/2023	delete useless comment	
Geralt1209	YuKun Li	29/04/2023	fix receiving data from garmin	V2.0
edwinyao121	YuHang Yao	3/05/2023	change url parameter to response data	
edwinyao121	YuHang Yao	3/05/2023	fix the frontend transferring private data	
Geralt1209	YuKun Li	10/05/2023	email	
Geralt1209	YuKun Li	10/05/2023	email	
Geralt1209	YuKun Li	10/05/2023	email	
SherwinZ-G	XiuYuan Zhu	13/05/2023	add email verification and disconnect	
SherwinZ-G	XiuYuan Zhu	13/05/2023	show disconnect menu only when user is connected to Garmin	
edwinyao121	YuHang Yao	13/05/2023	no Authentication's Response	
edwinyao121	YuHang Yao	13/05/2023	specify the authenticated url	

SherwinZ-G	XiuYuan Zhu	13/05/2023	add email verification and disconnect	
SherwinZ-G	XiuYuan Zhu	13/05/2023	add email verification and disconnect	
Geralt1209	YuKun Li	13/05/2023	Update disconnect	
edwinyao121	YuHang Yao	13/05/2023	integrate with spring security(need polish)	
edwinyao121	YuHang Yao	13/05/2023	integrate with spring security(need polish)	
edwinyao121	YuHang Yao	13/05/2023	integrate with spring security(need polish)	
Geralt1209	YuKun Li	16/05/2023	sprint3 2nd	
Geralt1209	YuKun Li	16/05/2023	sprint3 1st	
Geralt1209	YuKun Li	16/05/2023	Merge remote-tracking branch 'origin/fix_password_in_parameters' into sprint3	
edwinyao121	YuHang Yao	16/05/2023	add jwtuser	
Geralt1209	YuKun Li	16/05/2023	Merge remote-tracking branch 'origin/fix_password_in_parameters' into sprint3	
edwinyao121	YuHang Yao	16/05/2023	add some new url white list	
edwinyao121	YuHang Yao	16/05/2023	add some new url white list	
edwinyao121	YuHang Yao	16/05/2023	add some new url white list	
Geralt1209	YuKun Li	16/05/2023	update	
Geralt1209	YuKun Li	19/05/2023	Error handling and fix error	
Geralt1209	YuKun Li	19/05/2023	handle exception	
Geralt1209	YuKun Li	19/05/2023	update Consts	
Geralt1209	YuKun Li	21/05/2023	Update header index.jsx	
Geralt1209	YuKun Li	21/05/2023	Update reset index.jsx	
Geralt1209	YuKun Li	21/05/2023	Update register index.jsx	
edwinyao121	YuHang Yao	24/05/2023	upload sprint 3 doc	
edwinyao121	YuHang Yao	24/05/2023	sprint 3 doc	V3.0

Presentation

CoachingMate Garmin API code: GA

Unimelb Comp90082
GA-BoxJelly Team

Agenda

- | | | | |
|----|---------------------|----|-----------------------|
| 01 | Introduction | 05 | Product Demonstration |
| 02 | Design Architecture | 06 | Scope of Work |
| 03 | Project Management | 07 | Q&A |
| 04 | Quality Management | | |

GA-BoxJelly Team



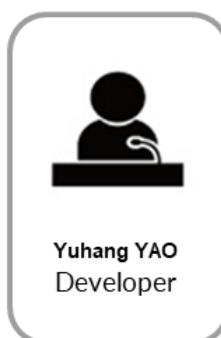
LingKang
Zhou
Product owner



Xiuyuan Zhu
Scrum Master



Rui Liu
Developer



Yuhang YAO
Developer



Yukun Li
Developer

Background



Hanna Navissi

Our client: Hanna Navissi



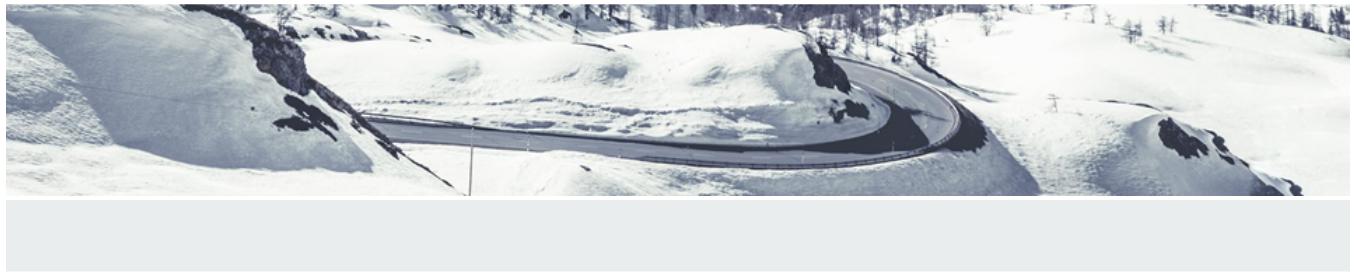
Garmin Wearable Device



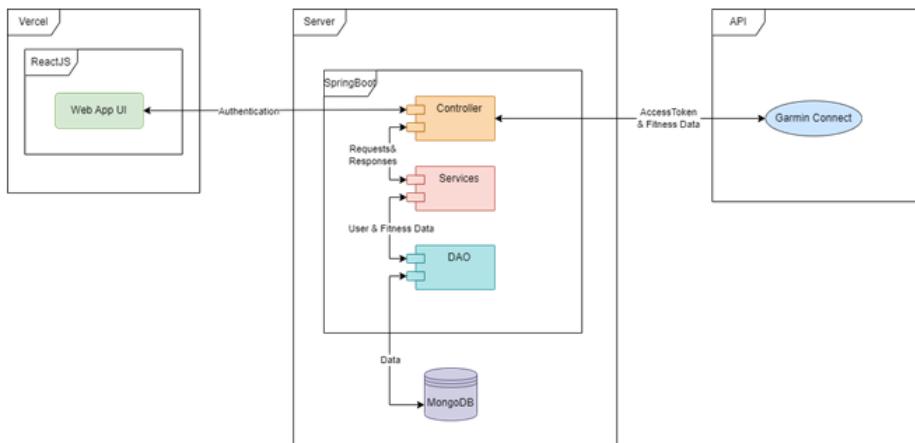
Coaching-Mate

Project Goal

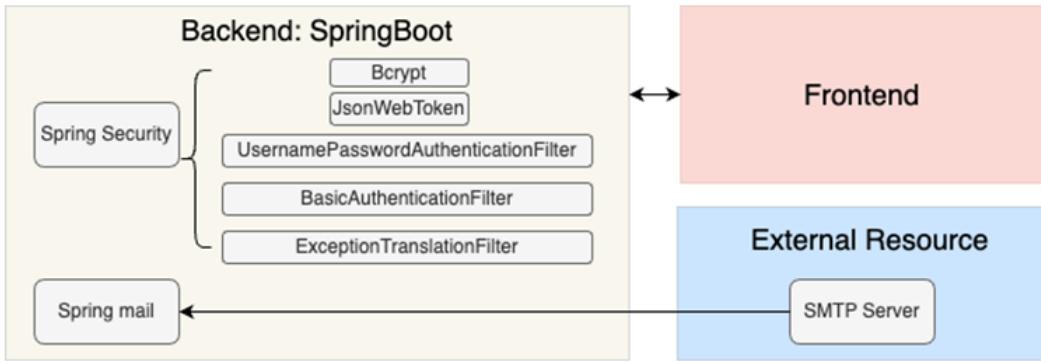
- Fix the entire project program
- Ensure the stability of the system
- Improve system security
- Ensure the sustainable maintenance of the system.



Design Architecture

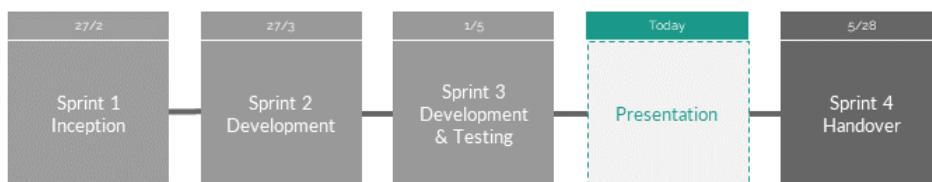


Technology

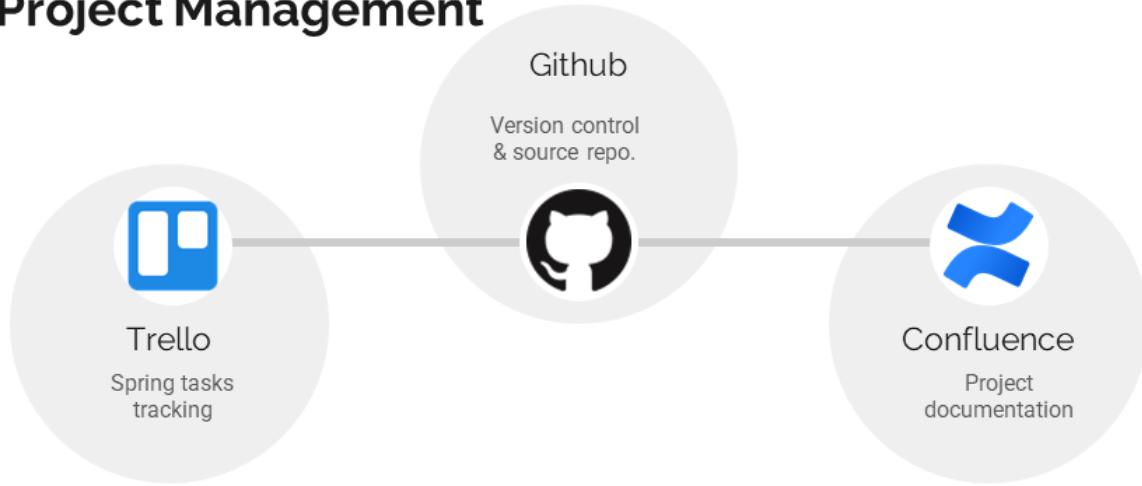


Timeline

Agile Model



Project Management



Project Management

BURNDOWN CHART

# User story	Story points Complete	Story points Remaining
19	61	26

BURNDOWN CHART

# User story	Story points Complete	Story points Remaining
9	71	0

Detailed description: This section displays two burndown charts and two summary tables. The top chart, titled 'Sprint 2', spans from March 25 to April 4, 2023. It shows actual progress (blue line) and ideal progress (orange line). The bottom chart, titled 'Sprint 3', spans from April 29 to May 29, 2023. It also shows actual (blue line) and ideal (orange line) progress. Both charts show a downward trend in remaining work over time. The first summary table shows 19 user stories with 61 complete and 26 remaining story points. The second summary table shows 9 user stories with 71 complete and 0 remaining story points.

Quality Management

1

Code & Documents

- Peer-to-Peer code Review
- Version Control
- ChatGPT Code Review

2

Testing

- Internal test
- Acceptance test
- Integrity test

Product Demo

<https://ga-box-jelly-ddb8.vercel.app/#/login>

Login Form

[forget password?](#)
[Register](#)
[Login](#)

Product Demo-Auth part(Previous)

A screenshot of the Postman application interface. The request URL is `https://coach.myyhhixy.com/activity/getActivityByAccessToken?accessToken=...`. The 'Headers' tab is selected, showing a single header entry: 'Key' (Content-Type) and 'Value' (application/json). The 'Body' tab shows a JSON response with a status code of 200, message of 'Success', and data containing user information like userId, userAccessToken, summaryId, and activityId. A red box highlights the JSON response body.

```
1 "statusCode": 200,
2 "message": "Success",
3 "data": [
4     {
5         "parentSummaryId": null,
6         "userId": "898329394",
7         "userAccessToken": "2d7c25b2-27f5-4974-a82f-2a9e41502b9f",
8         "summaryId": "8654408419",
9         "activityId": 10
10    }
]
```

Product Demo -Auth part(Now)

A screenshot of the Postman application interface. The request URL is `https://coach.myyhhixy.com/activity/getActivityByAccessToken?accessToken=...`. The 'Headers' tab is selected, showing an additional header entry: 'X-Token' with the value 'eyJhbGciOiJIUzI1NiJ9eyJzdWlqOjIc2VySW...'. The 'Body' tab shows a JSON response with a status code of 200, message of 'Need Auth', and data code 2003. A red box highlights the JSON response body.

```
1 "statusCode": 200,
2 "message": "Need Auth",
3 "data": 2003
```

The second screenshot shows the same setup but with a different response. The 'Headers' tab now has the 'X-Token' header checked. The 'Body' tab shows a JSON response with a status code of 200, message of 'Success', and data containing user information like userId, userAccessToken, summaryId, and activityId. A red box highlights the JSON response body.

```
1 "statusCode": 200,
2 "message": "Success",
3 "data": [
4     {
5         "parentSummaryId": null,
6         "userId": "898329394",
7         "userAccessToken": "2d7c25b2-27f5-4974-a82f-2a9e41502b9f",
8         "summaryId": "8654408419",
9         "activityId": 10
10    }
]
```

In Scope

A

Syncs with
Garmin



C

SMTP email server

B

Plain text password
database



D

JWT security

Out of Scope

A

JWT in Redis

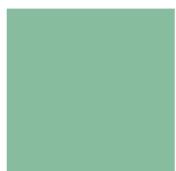


B

Hierarchical
Authorization

C

Garmin connection
status check



Q&A



≡

Thank you.





2023-S1-GA-BoxJelly.pdf

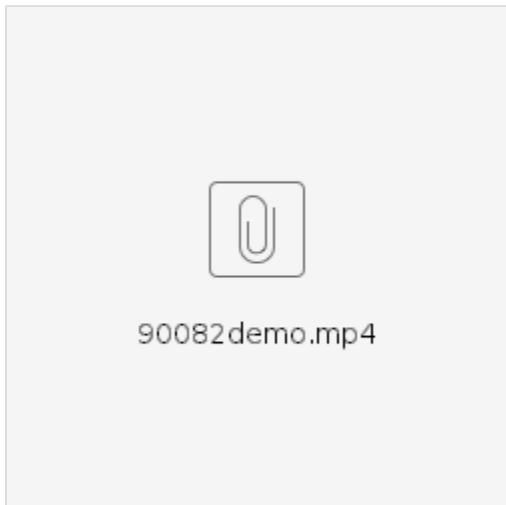
File

Project Zip File

ZIP File:

Final product DEMO

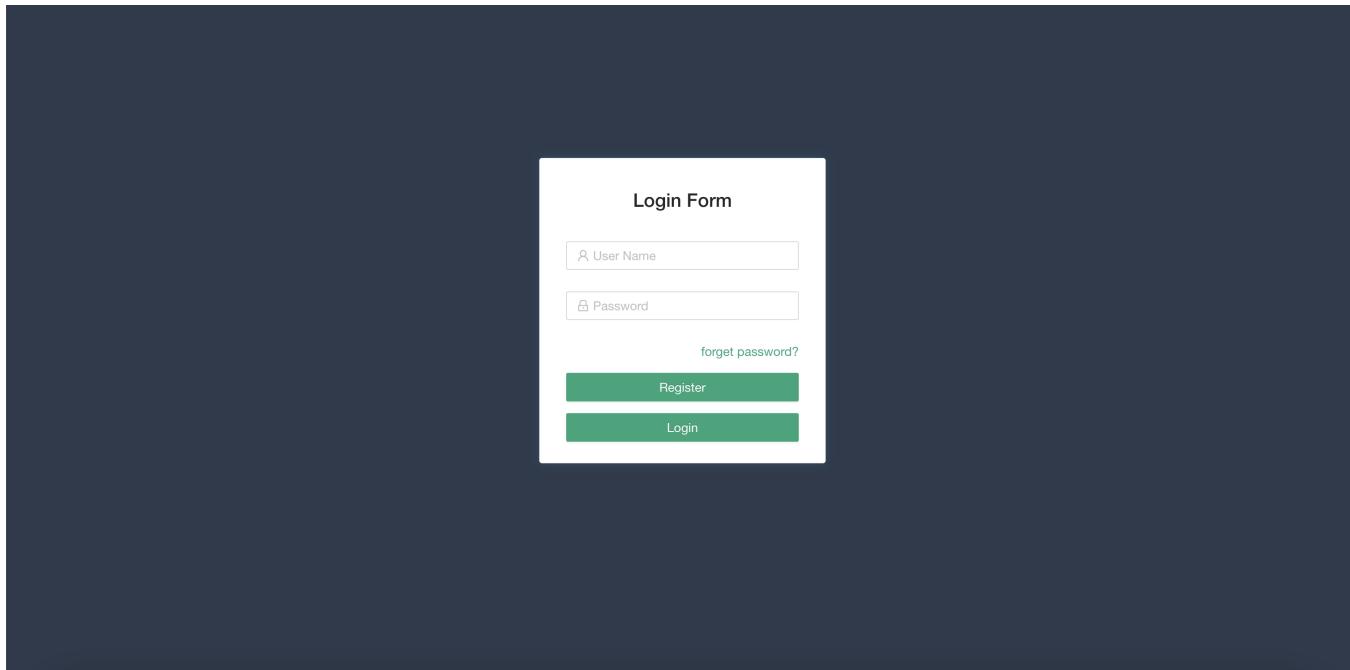
Demo Vedio:



Url:

<https://ga-box-jelly-ddbh.vercel.app/#/>

Example page:



Demo Account:

0529

Demo Password:

BBbb11..

Garmin account page:

Activities

+ Manual Activity Import Export CSV

Search Activities	Compare 0 of 4	All	🏃	🚴	⭐
May 29, 2023 ★ 4 OPEN WATER SWIMMING	58,080 yd DISTANCE	2:00:00 TIME	0:12 min/100 yd AVG PACE	123 CALORIES	0 bpm AVG HR
May 29, 2023 ★ 3 RUNNING	1.86 mi DISTANCE	3:00:00 TIME	-- AVG PACE	-- TOTAL ASCENT	0 bpm AVG HR
May 29, 2023 ★ 2 RUNNING	199.46 mi DISTANCE	2:00:00 TIME	0:36 /mi AVG PACE	-- TOTAL ASCENT	0 bpm AVG HR
May 22, 2023 ★ 5 OPEN WATER SWIMMING	3,281 yd DISTANCE	3:00:00 TIME	5:29 min/100 yd AVG PACE	333 CALORIES	0 bpm AVG HR

CoachingMate activity page:

Activities						
	All	🏃	🏊	🚴		
	Activity	Distance	Time	Avg Pace	Total Ascent	Avg Heart Rate
May 22, 2023 5 OPEN_WATER_SWIMMING	3.00 KM	3:00:00	59.95	0 m	0 bpm	
May 30, 2023 4 OPEN_WATER_SWIMMING	53.11 KM	2:00:00	2.26	0 m	0 bpm	
May 30, 2023 3 RUNNING	3.00 KM	3:00:00	59.95	0 m	0 bpm	
May 30, 2023 2 RUNNING	321.00 KM	2:00:00	0.37	0 m	0 bpm	