Test cases

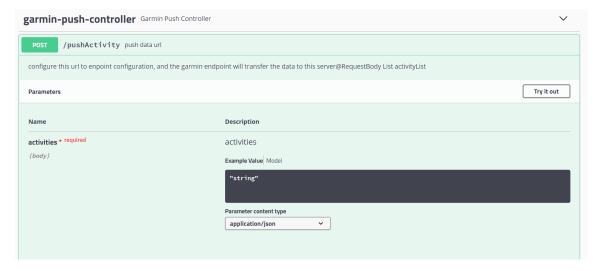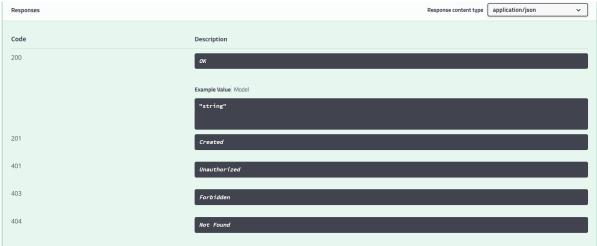| TestCase #	Test Case	Test Steps	Preconditions	Test Data	Expected Result
1	New user registration	1) Click "Register" button 2) Enter full name, Usernname, password and email address 3) Click "Register" button to confirm	-	username e: user1 password : 123456	Sign up successful.
2	User login	1) Enter username and password 2) Click "Login" button	1	username e: user1 password : 123456	Login successful
3	User logout	Click the logout button in the dashboard	2	-	Logout successful
4	Connect to Garmin	1) Click "Connect to Garmin" button in the dashboard 2) Enter the username and password of Garmin account 3) Click "Save" and "Agree" button 4) Click "I have connected" button on the dashboard	2	username e: user1 password : 123456 Garmin account	Connect successful
5	Data synchronize	Click upload on Garmin watch	2, 4	Activity data	1) See activity data at backend 2) See activity data at frontend
6	View profile	Click "Profile" tag	2, 4	-	A user can view personal information
7	Change the theme of the system	1) Click "Theme" 2) Switch between two themes	2, 4	-	The dashboard can display on a lighter theme and a darker theme.
8	Close tabs	Click the "x" to close the tabs	2, 4	-	The closed tabs do not display on the dashboard.
9	View all activities	1) Click "Activities" 2) Click "All Activities" from the drop-down menu	2, 4, 5	Activity data	A user can view all the activity data from the dashboard.
10	View activity data by category	1) Click "Activities" 2) Click "All Activities" from the drop-down menu 3) Click buttons to choose different categories	2, 4, 5	Activity data	The data from selected category will be displayed on the dashboard.
11	View activity detail	1) Click "Activities" 2) Click "Activity Detail" from the drop-down menu 3) Click buttons to choose different categories	2, 4, 5	Activity data	A user can view the detail of the activity, including the duration, start time, end time, and the distance.

Testing Using Swagger

Swagger is used for our backend testing. Visit https://ga-boxjelly.herokuapp.com/api/swagger-ui.html to use the swagger ui.

All the controllers from backend can be tested here. Users can test data retrieving, login, register, garmin-push, error handling and authentication controller.

Some of the examples are as follow:

Push data to garmin API

garmin-push-controller Garmin Push Controller   ⌄

| POST | /pushActivity | push data url |

configure this url to enpoint configuration, and the garmin endpoint will transfer the data to this server@RequestBody List activityList

Parameters   [Try it out]

Name	Description
activities * required	activities
(body)	**Example Value** Model
| | ```
"string"
``` |
| | **Parameter content type** |
| | application/json ⌄ |

Responses   Response content type [application/json ⌄]

Code	Description
200	*OK*
	Example Value Model
| | ```
"string"
``` |
201	*Created*
401	*Unauthorized*
403	*Forbidden*
404	*Not Found*

Login controller

login-controller Login Controller   ⌄

| POST | /getUserByToken | getInfo |

Parameters   [Try it out]

Name	Description
param * required	param
(body)	**Example Value** Model
| | ```
{
  "additionalProp1": "string",
  "additionalProp2": "string",
  "additionalProp3": "string"
}
``` |
| | **Parameter content type** |
| | application/json ⌄ |

Error controller handling diferent errors

basic-error-controller Basic Error Controller ⌄

GET	/error errorHtml

HEAD	/error errorHtml

POST	/error errorHtml

PUT	/error errorHtml

DELETE	/error errorHtml

OPTIONS	/error errorHtml

PATCH	/error errorHtml

Registery controller

registry-controller Registry Controller ⌄

POST	/register register interface

user registration

Parameters   [Try it out]

Name	Description
email * required string *(query)*	email
fullname * required string *(query)*	fullname
password * required string *(query)*	password
username * required string *(query)*	username