

Omarama Airfield app

Overview

The app is designed initially to replace the paper recording of data at the airfield for the following functions:

- Tow plane launches
- Winch launches
- OGC and associated flight duration
- OGC oxygen sales
- Flight Following == NEW

A secondary function is the management of users of the airfield.

The app is closely linked to the omaramaairfield.nz website and users use the same login for both sites.

All OGC members are automatically entered in the app database, casual users need to register using the app.

All user's details are therefore available for the app to use for subsequent billing purposes.

The app could be extended to cover details such as insurance/BFR/ratings etc, such that for example, a tow pilot wouldn't launch a pilot who didn't have currency.

How the app and website work

The app is designed to be used by a variety of users, pilot, tow pilots, oxygen suppliers etc.

To accommodate the wide variety of users, an array of user flags is maintained as follows:

The administrator (GOD) has the rights to update each person's flags. Currently GOD is me, but we can set any number of people up with GOD or any other status. The status are set in the website and downloaded to the app.

For example, Keith would have flags 0,3,9,12 set. This means he can will see the tow pilot screen on the app for when he tows, but also in the website he will have access to OGC data on members as well as summary towing data to use with his billing.

A 'normal' OGC member would only have status 0 set, which means they would only see their details on the website and in the app.

0	OGC member
1	YG Member
2	casual member
3	Exec member
4	Secretary
5	CFI
6	Winch master
7	President
8	GOD
9	Tow supplier
10	OGC Flights supplier
11	Winch Launch supplier
12	Tow pilot
13	Winch launch controller
14	o2 supplier
15	
16	
17	
18	
19	

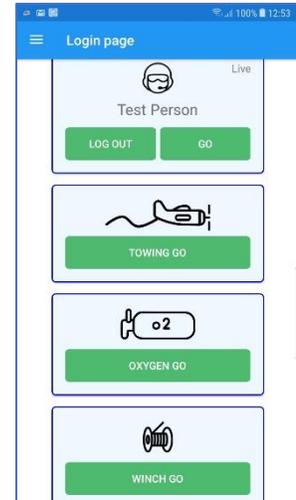
Using the app

When first opened the login page is displayed.

Once logged in the status flags determine which functions they are permitted to use, and only those are visible to the user.

For example a Tow pilot would only see the Towing frame.

The full range is set up for a test user, use login of 'testpp' and password 'person' to play with everything.

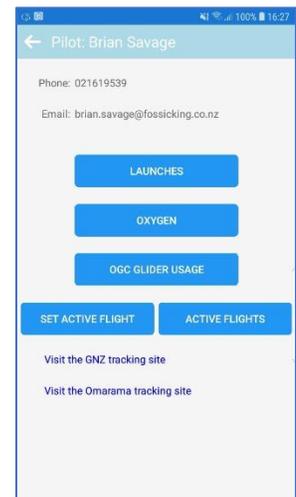


The Pilot details page is what everyone has access to. By clicking the buttons for launches or oxygen, transactions made by that pilot are downloaded from the server and shown.

The OGC Glider usage button opens the page to enter a flight using OGC gliders.

The two buttons for flight following are to set up a flight, and to review the current active flights.

There are links to the Omarama and GNZ tracking sites, these open in a browser.



Data entry

Each of the screens for towing, winching, oxygen fills and OGC glider usage have the same two part structure, the first screen captures the data, and is saved using the save button.

The review button leads to the second screen which shows a list of transactions.

If the background is red, the transaction has yet to be uploaded to the server. Clicking on it takes it back to the first screen where it can be edited.

The Upload button sends the data to the server and changes the background to green. The data can no longer be edited.

The Refresh app data button downloads the latest pilot data from the server. You need to do this to begin with, and whenever you reckon the data might be out of date.

For example, tow pilots should refresh before each day's flying.

← Glider usage: Brian Savage

Glider used Shared

Paying pilot Type pilot name... P1

Second pilot Type pilot name... P2

Take off time Click to set time

Landing time Click to set time

REFRESH APP DATA REVIEW FLIGHTS SAVE FLIGHT

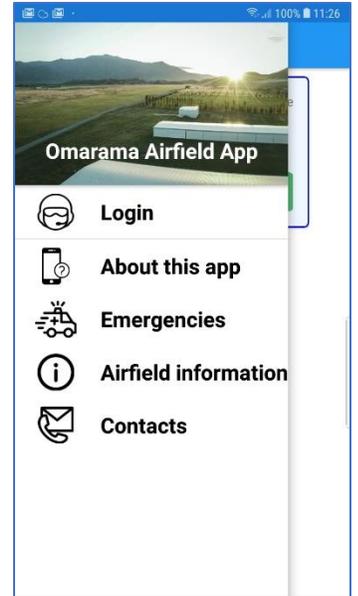
← Flight list

Glider: ZS	Shared: False
Paying Pilot: Test Person	P2
Second Pilot: Brian Savage	P1
Launch: Sun 29 Nov 2020 11:58 am	
Land: 12:18 pm	20 mins

Glider: ZS	Shared: False
Paying Pilot: Brian Savage	P1
Second Pilot: None	P2
Launch: Sat 28 Nov 2020 1:36 pm	
Land: 1:48 pm	12 mins

Swiping left on the login page, or clicking the menu button on the top banner, displays the app menu page.

The bottom 4 rows lead to pages for specific information about the airfield.



The menu for test person is shown below, where everything has been activated.

Omarama Gliding Club
Logout

Menu for Test Person

View and edit my details

View my glider bookings

Flights

Launches

Oxygen

View member details

Email the Executive

View system log

View Launches

View oxygen

View OGC aircraft usage

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The top row of buttons is seen by every user and leads to displays for their personal transactions.

The second row are buttons seen only by the OGC executive

The last three rows are seen by tow, oxygen and selected members of OGC for glider usage. The one for OGC gliders is below. The data can be exported to a csv file for loading into a spreadsheet for analysis and subsequent billing.

Omarama Gliding Club
Logout

OGC Glider usage for OGC executive

Return
Export

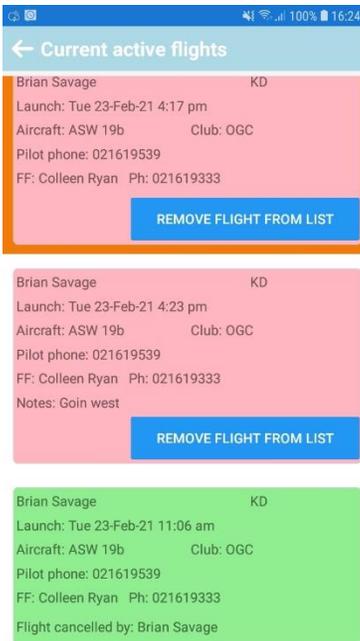
Paying pilot	Paying pilot email	Paying pilot phone	Second pilot	Second pilot email	Second pilot phone	Shared flight	Glider reg	Launch time	Land time	Time (mins)	Comments
Brian Savage	P2 brian.savage@fossicking.co.nz	021 619 539	Test Person	P1 brian.savage@fossicking.co.nz	021 619 539	<input checked="" type="checkbox"/>	UO	Mon 30-Nov-20 7:14 a.m.	11:14 p.m.	960	Test notes
Test Person	P2 t@p.com	123456	Brian Savage	P1 t@p.com	123456	<input type="checkbox"/>	ZS	Sun 29-Nov-20 11:58 a.m.	12:18 p.m.	20	
Brian Savage	P1 brian.savage@fossicking.co.nz	021 619 539				<input type="checkbox"/>	ZS	Sat 28-Nov-20 1:36 p.m.	1:48 p.m.	12	
Brian Savage	P2 brian.savage@fossicking.co.nz	021 619 539	Trevor Mollard	P1 brian.savage@fossicking.co.nz	021 619 539	<input type="checkbox"/>	ZS	Wed 18-Nov-20 11:47 a.m.	3:38 p.m.	231	
Brian Savage	P1 brian.savage@fossicking.co.nz	021 619 539	Alex Boyes	P2 brian.savage@fossicking.co.nz	021 619 539	<input checked="" type="checkbox"/>	ZS	Fri 13-Nov-20 2:25 p.m.	7:11 p.m.	286	Club tests

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Flight following

A basic flight following feature is available in the app, based upon mutual support. Each flight requires the pilot to nominate a name and phone for their flight following agent. It is expected that when landed and cancelling a flight the pilot will monitor the remaining active flights. Their agent, and any others, can monitor the active flights through the app or the website.

A pilot records a flight they are about to take which is then available to view by anyone who has the app, or via the website, or on the tracking sites.



A flight to be followed is called an active flight. The pilot completes the details as shown – once entered these are stored for use next time, apart from the launch time and any notes added about the flight.

When saved it is uploaded to the server.

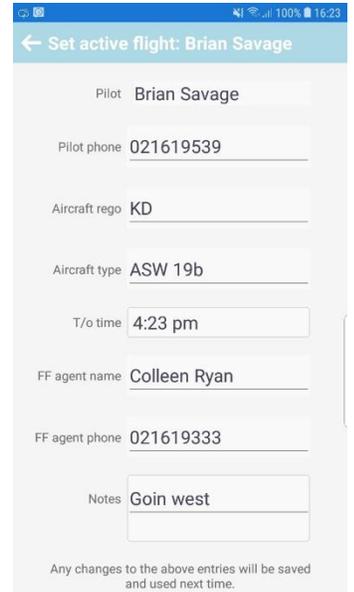
The flight is then available to be viewed on the current active flights page shown on the left.

Only flights for today are shown, previous days can be viewed via the website. (Note, the image shows test data)

When the flight has finished, the Remove Flight button is clicked, and the flight is changed to cancelled.

Anyone with access to this page can cancel any flight, but the name of the person cancelling is recorded.

Active flights are pink, cancelled are green.



Flights can also be viewed on the website. Historic flights are shown as well.

Omarama Gliding Club + Omarama Airfield Ltd						Logout
Active flights						Return
Club	Pilot	Rego	Aircraft	Take off time	Status	
OGC	Brian Savage Pilot phone: 021619539	KD	ASW 19b	Tue 23-Feb-21 12:23 PM Phone: 021619333	Active	
OGC	Brian Savage Pilot phone: 021619539	KD	ASW 19b	Tue 23-Feb-21 1:54 PM Phone: 021619333	Active	
OGC	Brian Savage Pilot phone: 021619539	KD	ASW 19b	Tue 23-Feb-21 4:17 PM Phone: 021619333	Active	
OGC	Brian Savage Pilot phone: 021619539 Notes: Go in west	KD	ASW 19b	Tue 23-Feb-21 4:23 PM Phone: 021619333	Active	
OGC	Brian Savage Pilot phone: 021619539	KD	ASW 19b	Tue 23-Feb-21 11:06 AM Phone: 021619333	Cancelled by Brian Savage	

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