

Visual Editor Guides



How to Connect MiniApps Bot to Google Sheets



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1 Introduction

By connecting MiniApps bot and Google Sheets you can transfer data collected from bot users to a table, store it in order, and handle it the way you handle spreadsheet data. To exemplify it we will create a simple bot-based intelligence test whereby peoples' answers and scores are automatically transferred to a Google Sheets table.

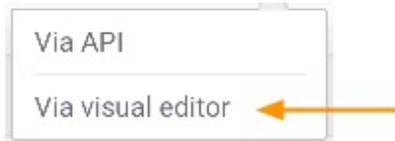
To integrate with Google Sheets you need:

1. Valid Google account;
2. MiniApps premium account.

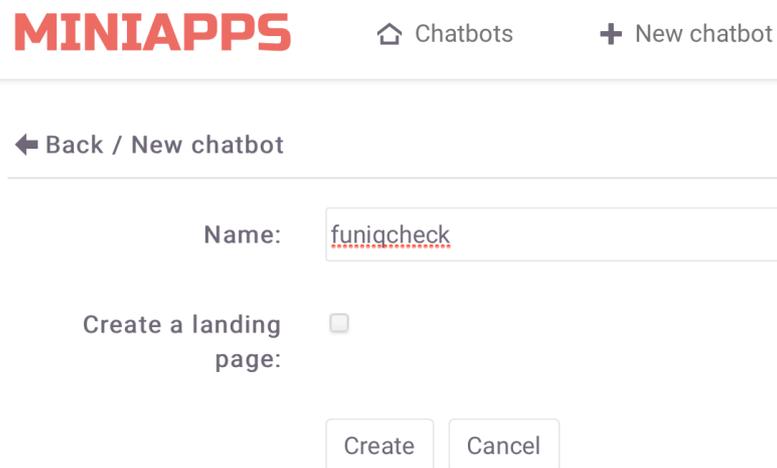
2 Creating the Bot

In this example we will create a bot to check one's IQ, just for fun.

Log into your MiniApps account and click on  New bot in the upper part of the page, then choose Via visual editor.



Call your bot "funigcheck", or whatever name you like, uncheck **Create a landing page** and press **Create**.

A screenshot of the MiniApps 'New chatbot' form. At the top left is the 'MINIAPPS' logo. To its right are 'Chatbots' and '+ New chatbot' links. Below is a 'Back / New chatbot' breadcrumb. The main form has a 'Name:' label and a text input field containing 'funigcheck'. Below that is a 'Create a landing page:' label with an unchecked checkbox. At the bottom are 'Create' and 'Cancel' buttons.

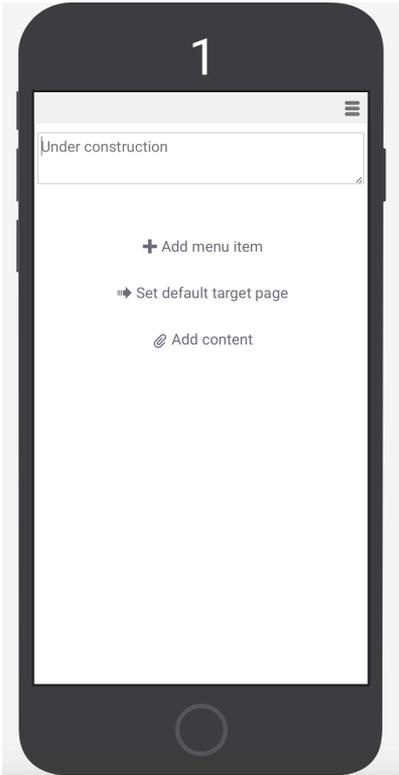
MINIAPPS [Chatbots](#) [+ New chatbot](#)

[← Back / New chatbot](#)

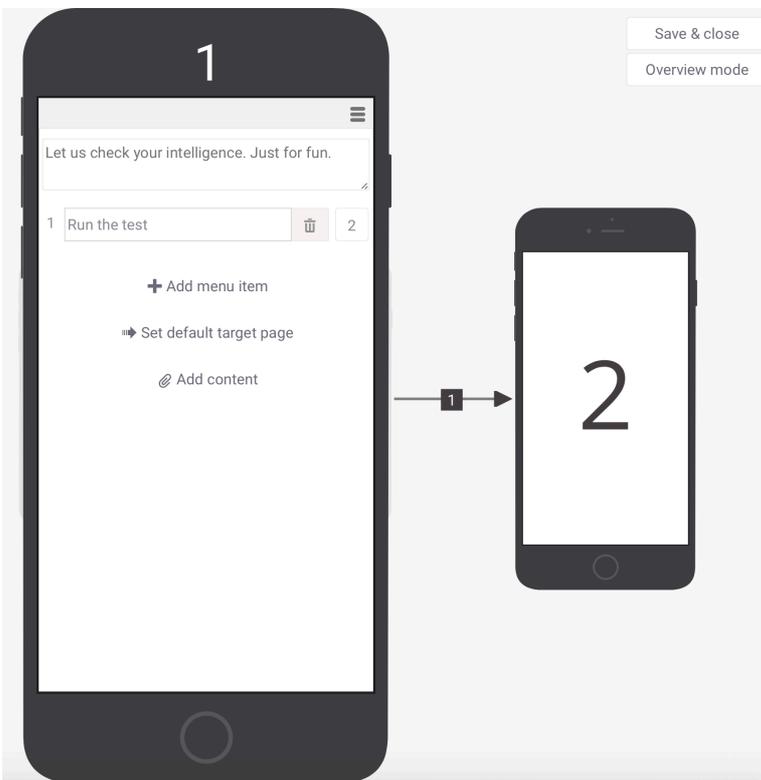
Name:

Create a landing page:

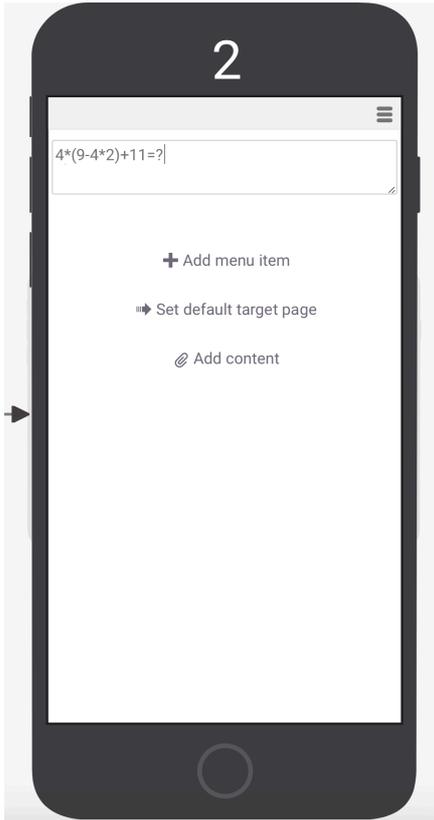
Bot editor opens showing the first page of your bot dialog.



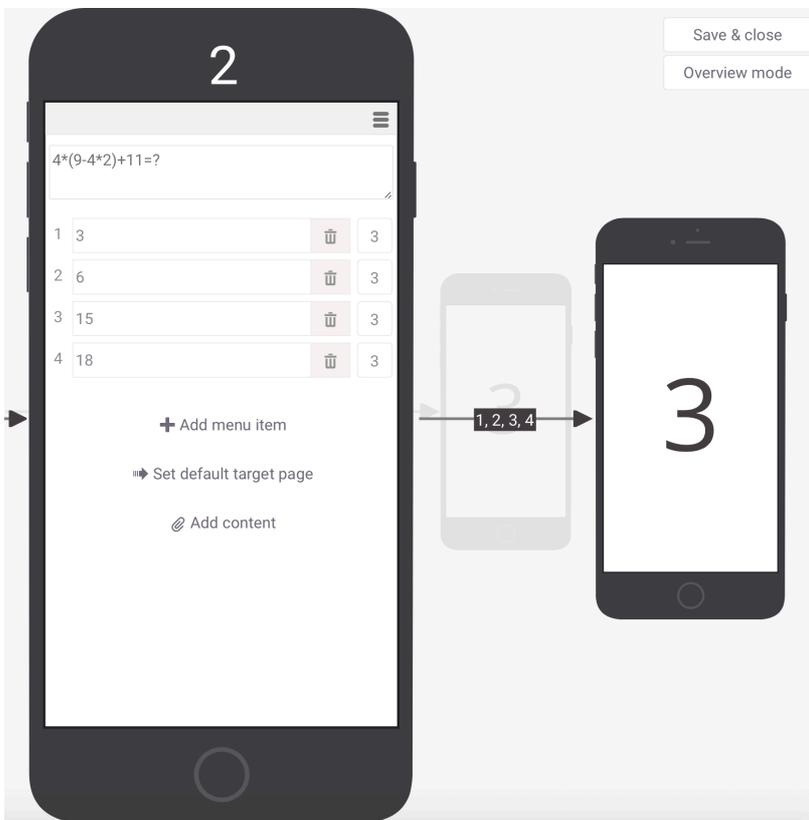
This is the title page. Add here some greeting text and transition to the next page. The welcome text is entered in the uppermost text box of the phone screen. To make transition to the next page click at **+** Add menu item .



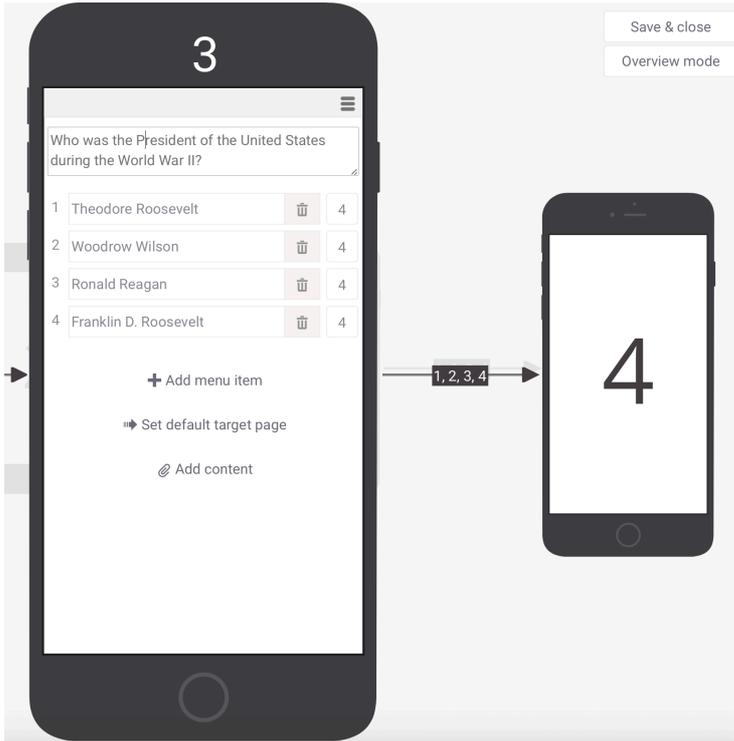
As you add a new menu item the editor automatically creates the next page corresponding to that menu item. This is the page where you ask your first question. Open it. In the uppermost text box type your question.



Now your user needs to choose the right answer. Let us specify four different answers, one of which is correct. Add four respective menu items. Note that they all should lead to the same next page!



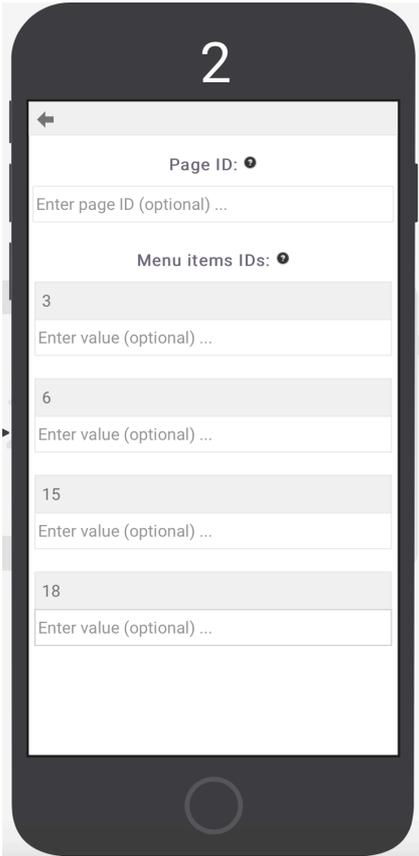
The next page is the next question. Ask another question and point all answers to the same next page.



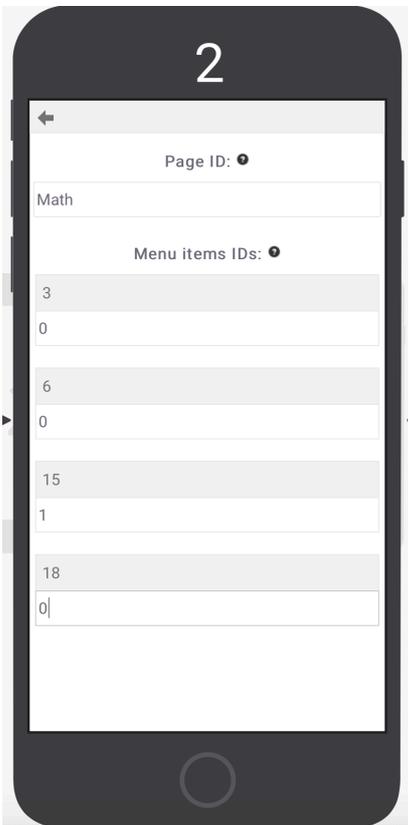
Now let us deal with the scores that users will earn answering the questions. Get back to your first question and click on  in the upper right corner and choose **Page IDs**.



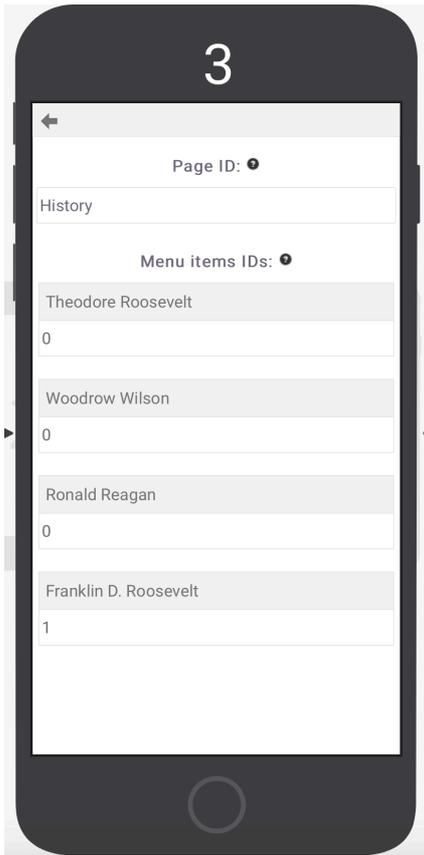
The page opens that lets you enter the page ID and IDs for every menu item.



The page ID will be rendered into the column name in Google Sheets; the menu item IDs will be the score points. 1 point for the right answer, 0 points if the answer is wrong.

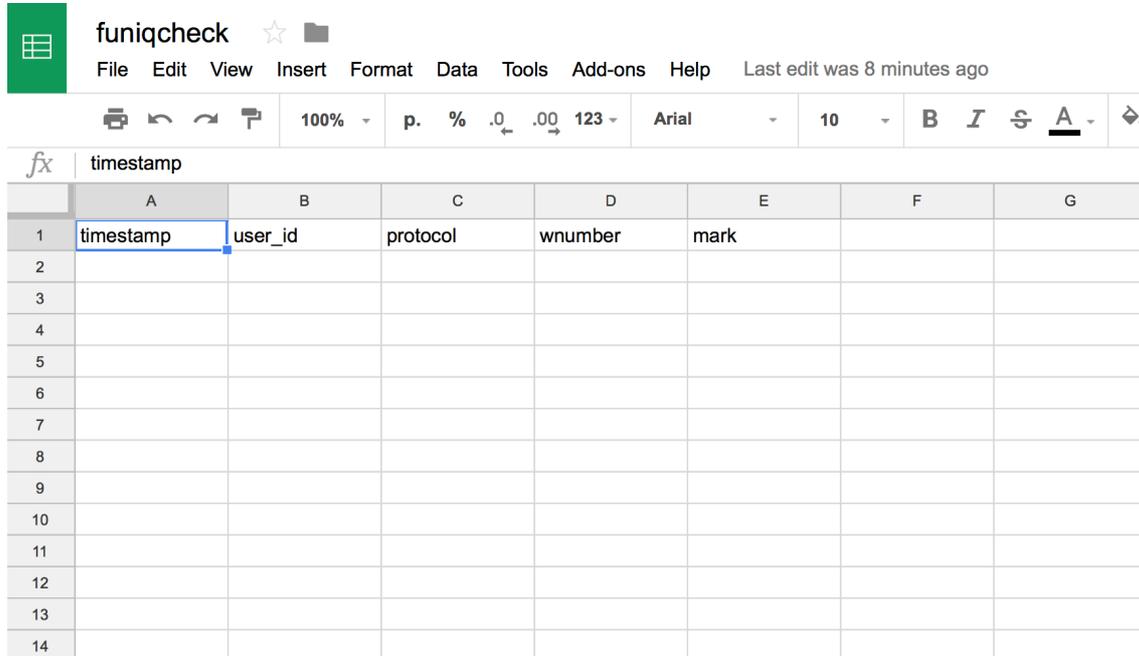


Do the same with the next question.



3 Creating Google Sheet

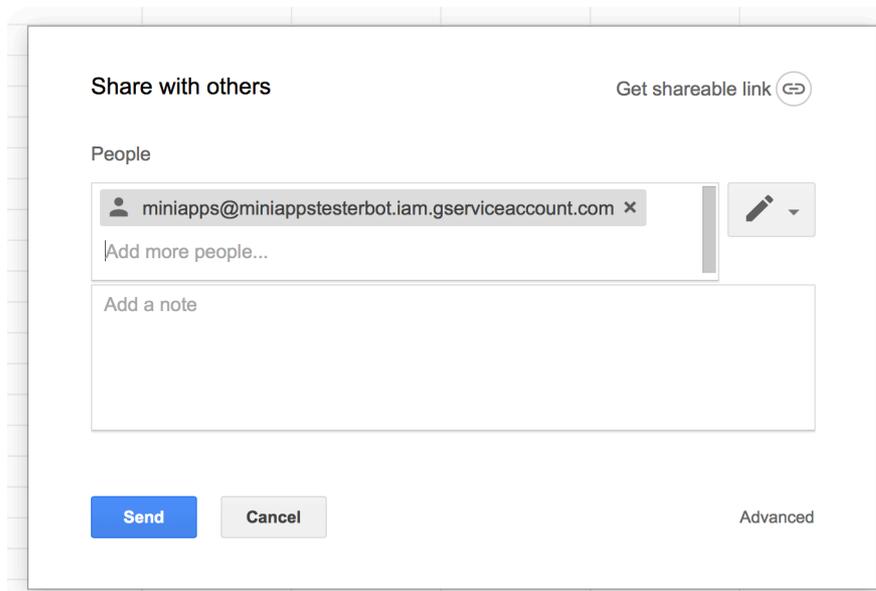
Enter your Google account. Create a new spreadsheet. Name it **funiqcheck**, or use another name. There will be five mandatory columns in the table with predefined headers. In order to work properly the table must look like this:



The screenshot shows a Google Sheet titled "funiqcheck" with a menu bar (File, Edit, View, Insert, Format, Data, Tools, Add-ons, Help) and a toolbar. The spreadsheet has a table with the following structure:

	A	B	C	D	E	F	G
1	timestamp	user_id	protocol	wnumber	mark		
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

In order to connect your new spreadsheet to a small hidden daemon that provides an interface between your bot and Google Sheets you should share the spreadsheet with this user: miniapps@miniappstesterbot.iam.gserviceaccount.com. Click on **Share** and enter the username.



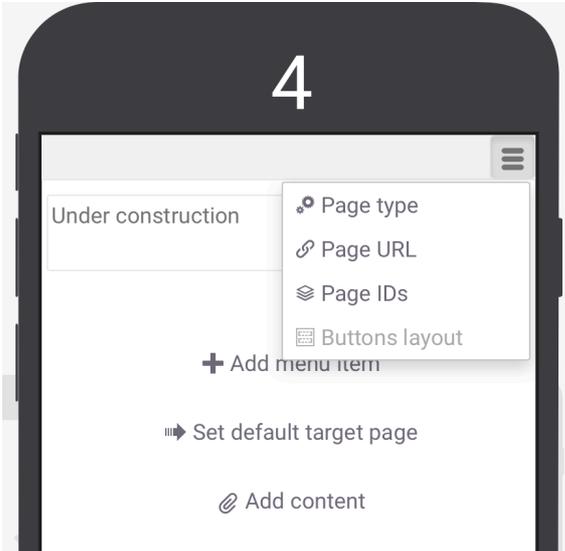
The screenshot shows the "Share with others" dialog box. The "People" field contains the email address "miniapps@miniappstesterbot.iam.gserviceaccount.com". There is a "Send" button and a "Cancel" button. The "Advanced" option is visible at the bottom right.

Click **Send**.

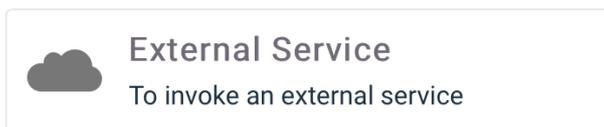
Now that you have connected your table to the daemon on the one side, you should connect the bot on the other. Let us get back to MiniApps constructor.

4 Finalising the Bot

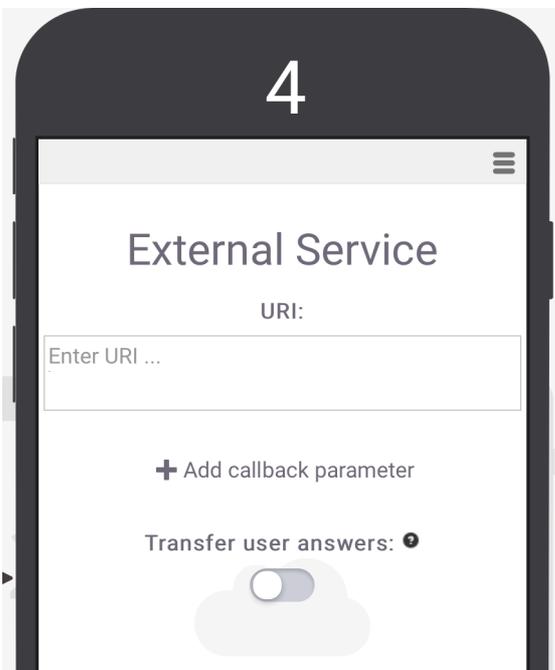
Open the last page of your bot (in our case it is #4). Click on  in the upper right corner and choose **Page type**.



In the list of page types select **External Service**.

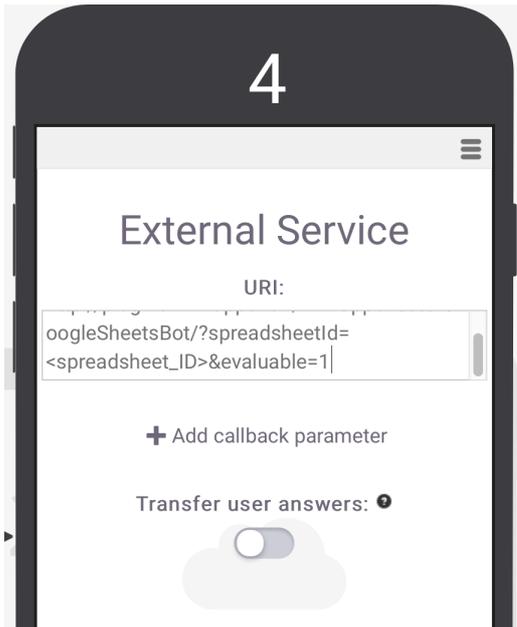


The external service screen opens.



Copy the following URI and enter it in the upper text box:

`http://plugins.miniapps.run/MiniappsTesterGoogleSheetsBot/?spreadsheetId=<spreadsheet_ID>&evaluable=1`



Note the field `<spreadsheet_ID>` in the URI. It should be replaced with the ID of your real Google spreadsheet. Here is how to obtain it.

Select your spreadsheet address in your Internet browser address field. It should look like this:

<https://docs.google.com/spreadsheets/d/1txBZwOP-N97I1AzyGv7UhqndY6gWmgYDmYuzw80v5Xg/edit#gid=0>

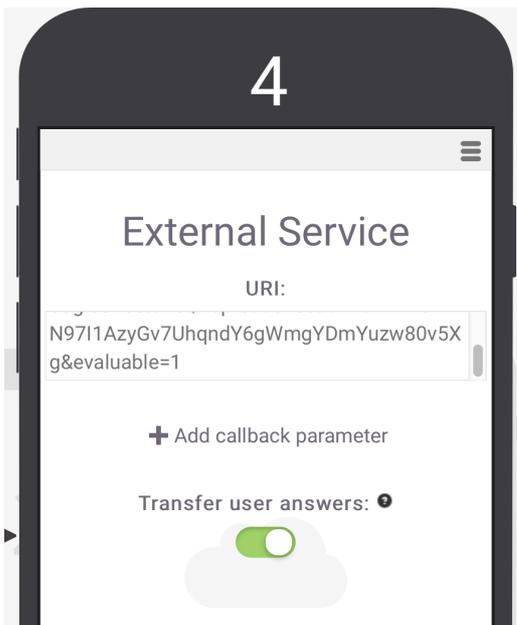
Highlight this part of the address and copy it:

<https://docs.google.com/spreadsheets/d/1txBZwOP-N97I1AzyGv7UhqndY6gWmgYDmYuzw80v5Xg/edit#gid=0>

Replace `<spreadsheet_ID>` with the copied string. The resulting URI should look like this:

<http://plugins.miniapps.run/MiniappsTesterGoogleSheetsBot/?spreadsheetId=1txBZwOP-N97I1AzyGv7UhqndY6gWmgYDmYuzw80v5Xg&evaluatable=1>

The last thing to do is switch on **Transfer user answers**:

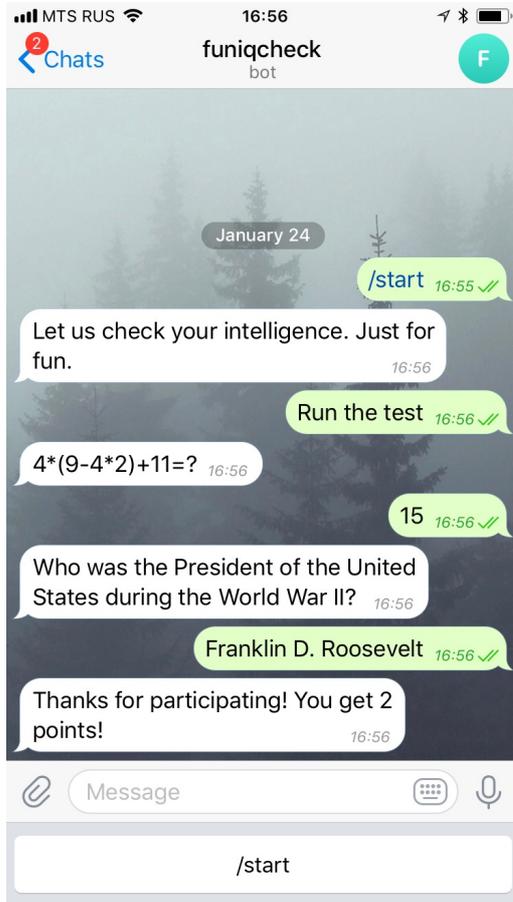


Press **Save & Close** to save your bot.

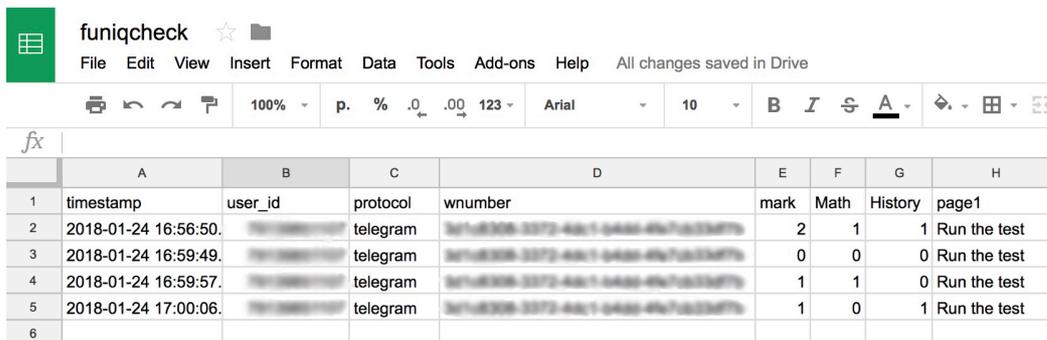
All is done! Publish your bot and see how it works.

5 How the Bot Performs in the Real Life

This is how your quiz will look in Telegram.



When your quiz campaign is over you can open your spreadsheet and see the results.



	A	B	C	D	E	F	G	H
1	timestamp	user_id	protocol	wnumber	mark	Math	History	page1
2	2018-01-24 16:56:50.	[REDACTED]	telegram	[REDACTED]	2	1	1	Run the test
3	2018-01-24 16:59:49.	[REDACTED]	telegram	[REDACTED]	0	0	0	Run the test
4	2018-01-24 16:59:57.	[REDACTED]	telegram	[REDACTED]	1	1	0	Run the test
5	2018-01-24 17:00:06.	[REDACTED]	telegram	[REDACTED]	1	0	1	Run the test
6								

- **timestamp** - date and time when the check was completed by a user;
- **user_id** - the phone number of the user (presented if available in MiniApps user data);
- **protocol** - the messenger that was used by the user. Telegram in our example;
- **wnumber** - MiniApps internal user ID;
- **mark** - the total score earned by the user;
- **Math** - the score earned answering the math question;
- **History** - the score earned answering the history question.

Now you can filter your data, sort it, applies formulas, and do any other things that Google Sheets allows to do.