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JAVAN

material & library management system

# Overview

JAVAN allows for students of STEM Education (formerly UCTH) to view and reserve available materials, and eventually books as well. JAVAN is built using Django REST Framework and Angular, its codebase can be found [here](https://github.com/RyanRau/javan).

JAVAN is hosted for free on Heroku and links for the front & backend components follow:

<https://javan-frontend.herokuapp.com>

<https://javan-backend.herokuapp.com>

Due to JAVAN being hosted on a free service, it may occasionally appear to go down as Heroku puts unused applications to sleep, see [Site doesn’t load](#_Site_doesn’t_load) for troubleshooting.

JAVAN is also linked to Trello which allows for student workers, master teachers, and other staff to easily see materials which have been requested. See [Trello Setup](#_Trello_Setup) for information on how to change which board JAVAN posts reservation requests to. The UTCH Trello board can currently be found [here](https://trello.com/b/zDMWb9Kv/javan-reservations). The link to join the JAVAN-Reservation Trello board is:

<https://trello.com/invite/b/zDMWb9Kv/c8081bf409c1e574ebd85f45eadc2288/javan-reservations>

# Usage

## Student Usage Instructions

The next two pages can be given to students

JAVAN – STEM Education Material & Library Reservation System

Go to <https://javan-frontend.herokuapp.com>

Qr code

Description automatically generated

TO VIEW MATERIALS

From the home page, click “View Materials”. There you’ll be able to view and search through a large majority of the materials we have on hand at the STEM Education house.

TO RESERVE MATERIALS

From the home page, click “Reserve Materials”. You’ll be prompted with a form to fill out asking for information pertaining to your class, lesson, and partners.

Graphical user interface, text, application

Description automatically generated

**Note:** only one student needs to create a reservation for their team.

Graphical user interface, application

Description automatically generatedOnce all required information has been filled out, you’ll be presented with a searchable list of materials we have on hand which you can add to your order. If something you need isn’t found on the list, you can create an “Unlisted Item”. Once all needed items are added to your order you can submit your order.

Graphical user interface, application, Teams

Description automatically generated

**Note:** Orders do not have to be completed in one go and can be continued at a later time.

TO CHECKOUT/VIEW A BOOK

The library side of JAVAN is still in development, to check out a book please inform a master teacher or student worker and they will take note of the book you wish to borrow.

To give feedback and/or report issues please use the button in the bottom right-hand corner of the site to email me.

# Administration

You can access the administration side of the site by going to

<https://javan-backend.herokuapp.com/admin/>

If you don’t have the login information, email me and I’ll create you a user. (I know that putting that information here is probably harmless but let’s keep to some good practices….)

Once logged in you can create new admin uses (not 100% necessary for everyone) and manage the materials we have (create/edit/delete materials).

## Material Management

Either clicking on “Items” from the main admin page or going [here](https://javan-backend.herokuapp.com/admin/items/item/) will bring you to the list of all materials that are part of the system. Here you can add, edit, or delete materials.

### Add Item

Click “Add Item +” in the upper right-hand corner of the page. You’ll be presented a form which you can fill out and save to create an item.

### Edit Item

From the list click on any item, a form will appear which you can modify and save.

### Delete Item

Select the check box next to the item(s) you wish to delete. With your selection made click the drop down located at the top of the list next to “Action” and select “Delete Selected Items” then click “Go” to delete the selected Items.

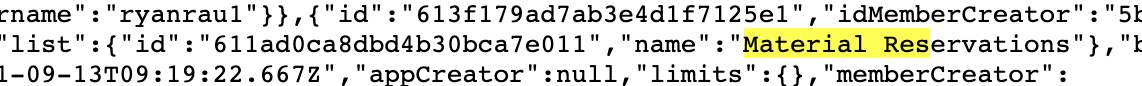
## Trello Setup

Currently Javan is linked the [this](https://trello.com/b/zDMWb9Kv/javan-reservations) Trello board. If for some reason this needs to change, the key values found under the [Keys section](https://javan-backend.herokuapp.com/admin/core/key/) of the admin page may need to be changed. In many cases just the list id values will need to change.

### Update List Id

If you want material reservations to be posted to another list, the list id will need to be changed. To find the id of the list you wish to use follow these instructions:

* go to the Trello board which has the list you wish to point to
* add ‘.json’ to the end of the URL, click enter. You’ll be brought to a page of all text
* click ctrl + f and search for the name of your desired list
* Look right before the found search result and you should see something like



You’ll want to copy the value next to id, in this case it would be 611ad0ca8dbd4b30bca7e011.

* With that value copied, use it to replace the current value in keys section of the admin site

### Update Trello Key & Token

If for some reason Trello breaks, a new Key and Token will have to be generated. For instructions on how to do so see [their documentation](https://developer.atlassian.com/cloud/trello/guides/rest-api/api-introduction/). Before attempting this, please email [me](mailto:ryanzrau@gmail.com?subject=JAVAN%20-%20Update%20Trello%20Key%20&%20Token&%20Toke&%20Tok&%20To&%20T&%20&) to ensure that this is the problem / is needed.

# Troubleshooting

## General Troubleshooting

If a problem arises which is not listed, the first thing one can do is to clear their browser data. [Here](https://www.pcmag.com/how-to/how-to-clear-your-cache-on-any-browser) instructions can be found on how to do so on various browsers, be sure to clear browser cookies and/or cached data.

## Site doesn’t load

Since JAVAN is hosted on a free service it may put to sleep after long periods of inactively. To wake it up go either to either of the sites:

<https://javan-frontend.herokuapp.com>

<https://javan-backend.herokuapp.com>

and refresh the pages a couple of times to wake it up. This could take up to 5 minutes, so just open the pages and go make yourself a cup of coffee, it should be good to go by the time you get back.

## Reservations aren’t Posted to Trello

If reservations aren’t showing up on Trello this could be the result of the key or token expiring or the id of the Trello list/board being changed. If the problem doesn’t fix itself after a refresh of or two of the page please reach out to [me](mailto:ryanzrau@gmail.com?subject=JAVAN%20-%20Reservations%20Fail%20to%20Submit&%20Token&%20Toke&%20Tok&%20To&%20T&%20&) or see [Trello Setup](#_Trello_Setup) for steps to fix those.