

# Google Summer of Code & Outreach

Project Showcase  
2017



**WIKIMEDIA**  
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# Remind me of this article in X days

Ela Opper

This task is a feature request to the Echo extension in Mediawiki that was created a few years ago.

I was honored to pick it up and develop it.

The feature changes the very core of this extension, transforming it from a reactive only component to a proactive one, that creates timed tasks in the system and executing it.

The feature enables the registered user to create a timed page reminder with a custom comment of his own about that reminder.

Link to feature information - <https://phabricator.wikimedia.org/T2582>



# Remind me of this article in X days - feature diagram

Ela Opper



Main page Discussion

Read Edit View history **Remind me** More Search devwiki

Eee Talk Preferences Beta

## Main Page

Welcome to MediaWiki-Vagrant!

- [MediaWiki-Vagrant help](#)
- [MediaWiki help](#)

Read Edit View history **Remind me** More Search devwiki

Remind me about this article [alt-shift-a]

Eee Talk Preferences Beta Watchlist Contr

Read Edit View history **Remind me** More Search devwiki

Set a reminder about this page

project showcase 2017

When

2017-10-21 13:28:05

October 2017						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

Tomorrow Next week Next month

Cancel Create reminder

Set a reminder about this page

Review this page...

When  
Pick a date

Tomorrow Next week Next month

Cancel

Create reminder

Notices Mark all as read

A page you have requested to be reminded about is at **Main Page**  
projects showcase 2017

17s



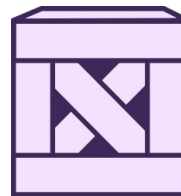
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# Add a "hierarchy" type to the Cargo extension

Feroz Ahmad

## About Cargo

**Cargo** is an extension to MediaWiki that provides a lightweight way to store and query the data contained within the calls to templates, such as infoboxes.



**Cargo**

## About the project

The project can be understood as adding support for **hierarchy** data, so that they can be queried employing their hierarchy nature.

In order to achieve the aforesaid aim, there were several other features required to be developed.

# Add a "hierarchy" type to the Cargo extension

Feroz Ahmad

Features added to the **Cargo & Page Forms** extension

1. Support for [declaring](#) and querying over hierarchy fields in **Cargo Extension**.
2. Support for query using new **Cargo** keywords - [“WITHIN” & “HOLDS WITHIN”](#)
3. [New Cargo's 'Drilldown'](#) interface to incorporate hierarchy fields.
4. Support for hierarchy fields in the **Page Forms extension** to set default input type as "tree" for hierarchy field.
5. Support for hierarchy fields in the helper pages of **Page Forms extension** for compatibility with `Special:CreateClass` and `Special:CreateTemplate`.

# Add a "hierarchy" type to the Cargo extension

Feroz Ahmad

## Special:CreateClass

[Feroz](#) [Talk](#) [Preferences](#) [Watchlist](#) [Contributions](#) [Log out](#)



[Main page](#)  
[Recent changes](#)  
[Random page](#)  
[Help](#)

[Tools](#)

[Special pages](#)  
[Printable version](#)

Special page

Search my\_wiki

### Create a class

Enter all the data here to create the properties, template, form and category for a single class. For more options, use the pages [Create a template](#), [Create a form](#) and [Create a category](#) instead.

Template name:

Use the Cargo extension to store this template's data

Name of Cargo table defined by template:

Output format:  Table  Side infobox  Plain text  Sections

This template can be included multiple times on the page.

Form name:

Category name:

	Field name:	List of values?	Type:	Allowed values:	Hierarchy?
1.	<input type="text"/>	<input type="checkbox"/>	String	<pre>*Enter **hierarchy ***values ***in **g ***format *like **this</pre>	<input checked="" type="checkbox"/>
2.	<input type="text"/>	<input type="checkbox"/>	Page	<input type="text"/>	<input type="checkbox"/>



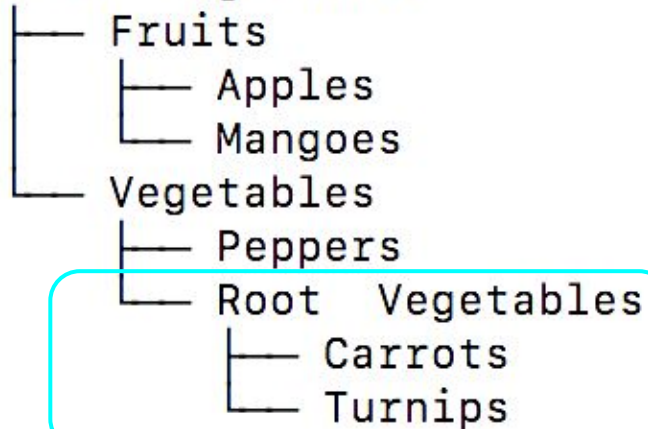
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# Add a "hierarchy" type to the Cargo extension

Feroz Ahmad

## Querying

Main Ingredient



```
{{#cargo_query:
tables=Cuisines
|fields=_pageName=Cuisine Name,Ingredient
|format=dynamic table
|where=Ingredient WITHIN "Root Vegetables"
}}
```



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# Add a "hierarchy" type to the Cargo extension

Feroz Ahmad

## Querying

Show  entries

Search:

Cuisine Name	Ingredient
SaladC	Carrots
SaladT	Turnips

Cuisine Name

Ingredient

Showing 1 to 2 of 2 entries

Previous

1

Next



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# Add a "hierarchy" type to the Cargo extension

Feroz Ahmad

## Special:Drilldown

Set `$wgLogo` to the URL path to your own logo image.

[Main page](#)  
[Recent changes](#)  
[Random page](#)  
[Help](#)

**Tools**

[Special pages](#)  
[Printable version](#)

[Feroz](#) [Talk](#) [Preferences](#) [Watch](#)

Special page

### Drilldown: MCuisine

#### MCuisine

Use the filters below to narrow your results.

▼ **Ingredients:**  
Fruits (3) ( [Mangoes](#) (2) ( [Alphonso](#) (1) · [Dasehri](#) (1) ) · [Apples](#) (2) ) · [Vegetables](#) (5) ( "[Vegetables](#)" only (1) · [Root Vegetables](#) (2) ( [Carrots](#) (2) · [Turnips](#) (1) ) · [Peppers](#) (3) )

▼ **Origin:**  
[British](#) (1) · [India](#) (2) · [Newzealand](#) (1) · [South America](#) (1)

Showing below up to 5 results in range #1 to #5.

[View](#) ([previous 250](#) | [next 250](#)) ([20](#) | [50](#) | [100](#) | [250](#) | [500](#))

**S**

- [SaladAP](#)
- [SaladCT](#)

[View](#) ([previous 250](#) | [next 250](#)) ([20](#) | [50](#) | [100](#) | [250](#) | [500](#))

**S cont.**

- [SaladMAP](#)
- [SaladMC](#)

**S cont.**

- [SaladRP](#)

# Add a "hierarchy" type to the Cargo extension

Feroz Ahmad

## Links

Proposal: <https://phabricator.wikimedia.org/T161609>

Final Report: <https://phabricator.wikimedia.org/T174294>

Blog Posts: <http://blog.ferozahmad.com/foss/>

*Thank you*



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# Improvements to ProofreadPage Extension and Wikisource

Amrit Sreekumar

This project aims at the improvement and enhancement of the ProofreadPage Extension and Wikisource, through important bug fixes and implementation of significant features.

- **Creation of an auto-validation privilege** – To validate the pages they have proofread, without the interference of a third person not related to it.
- **Conversion of Index: Pages editing form to OOjsUI** – Converted Index: Pages editing form, an editing interface implemented in the ProofreadPage extension to OOJS.
- **Migration of ProofreadPage zoom feature to OOjs** – Here the job was to completely port the zoom feature implemented in jQuery to OOjs. The change is yet to be merged as the DOM added is not yet updated.

# Document the process of developing Zotero translators

Sonali Gupta

- Citoid is a service to add references on WMF-wikis
- Aim of the project was to document how to prepare Zotero translators
- Documentation - [https://www.mediawiki.org/wiki/Citoid/Creating\\_Zotero\\_translators](https://www.mediawiki.org/wiki/Citoid/Creating_Zotero_translators)

## What does the documentation cover?

- About Zotero translators
- A separate page dedicated to web translator for blog-like sites
- Brief about needed concepts
- Clear explanation of methods required in a translator

### Contents [hide]

- 1 Zotero translators
- 2 Zotero translator for Wikimedia blog
- 3 Setting development environment
  - 3.1 For translation-server side development
    - 3.1.1 Install Sublime Text
    - 3.1.2 Install translation-server
  - 3.2 For development through IDE
    - 3.2.1 Install Zotero 4.0
    - 3.2.2 Install Scaffold
- 4 Required Concepts
  - 4.1 HyperText Markup Language
  - 4.2 Document Object Model
  - 4.3 CSS Selectors
  - 4.4 JavaScript
- 5 Common code blocks in translators
  - 5.1 attr
  - 5.2 text
  - 5.3 detectWeb
  - 5.4 doWeb
  - 5.5 getSearchResults
  - 5.6 scrape
  - 5.7 License block

- Walk-through code of Mediawiki translator
- Development on translation-server
- Development using Integrated development environment Scaffold
- How to get a translator deployed

*Try to build your translator and help us expand the content coverage :) Thank you.*

## 6 Working example of a translator

### 6.1 Write the code

### 6.2 Run on translation-server

#### 6.2.1 Add metadata header

#### 6.2.2 Build and run the changes

#### 6.2.3 Test and update

#### 6.2.4 Write test cases

##### 6.2.4.1 Test cases for multiple items

#### 6.2.5 Test cases for single item

### 6.3 Run on Scaffold

#### 6.3.1 Fill in metadata

#### 6.3.2 Fill in code and test

#### 6.3.3 Generate test cases

#### 6.3.4 Locate the translator file

### 6.4 Submit the translator

### 6.5 Verify the deployment of translator in Citoid

## 7 Useful links



# Glam2Commons: Upload Images from GLAM to Commons

Siddhartha Sarkar



**Glam2Commons** is a tool which allows any Wikimedia Commons user to import images to Commons from the online repositories of a number of **GLAMs** (galleries, libraries, archives and museums) easily.



# Supported GLAMs

- Nationaal Archief
- Amsterdam Museum

We plan to add other GLAMs soon.

New GLAMs can be suggested at

[https://commons.wikimedia.org/wiki/Commons\\_talk:Glam2Commons](https://commons.wikimedia.org/wiki/Commons_talk:Glam2Commons)



# Features

- Uses Wikimedia Commons credentials via OAuth.
- Very simple user interface.
  - Only one form to be filled for single image upload with known URL/Unique ID.
  - For multiple image upload there is a gallery of images formed based on a given search term from where the user has to select the desired images for upload.
- Auto-adds image metadata without any user intervention.
- Prevents upload of images that are already present in Wikimedia Commons.
- Capable of associating multiple categories with an image.
- Capable of handling exceptions and showing appropriate messages to the user in the user interface.
- Easy to add a new GLAM into the tool. Details are [here](#).

Homepage: <https://tools.wmflabs.org/glam2commons/>



## Upload Images from GLAM to Commons

[Home](#)

[Help](#)



Login to upload images from the online repositories of GLAMs to Wikimedia Commons

[Login with Wikimedia Commons](#)

We support the GLAMs below.

- Nationaal Archief, The Netherlands
- Amsterdam Museum, The Netherlands



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# Login page



Main page  
Welcome  
Community portal  
Village pump  
Help center

Participate  
Upload file  
Recent changes  
Latest files  
Random file  
Contact us

Tools  
Special pages  
Printable version

English Not logged in [Talk](#) [Contributions](#) [Create account](#) [Log in](#)

Special page

Search Wikimedia Commons

## Log in

Language: العربية | български | বাংলা | català | čeština | Deutsch | English | Ελληνικά | Esperanto | español | فارسی | suomi | français | galego | עברית | hrvatski | magyar | Bahasa Indonesia | italiano | 日本語 | македонски | മലയാളം | Plattdüütsch | Nederlands | norsk | polski | português | русский | slovenčina | slovensčina | shqip | српски / srpski | svenska | українська | 粵語 | 中文

Username

infobliss

Password

••••••••

Keep me logged in

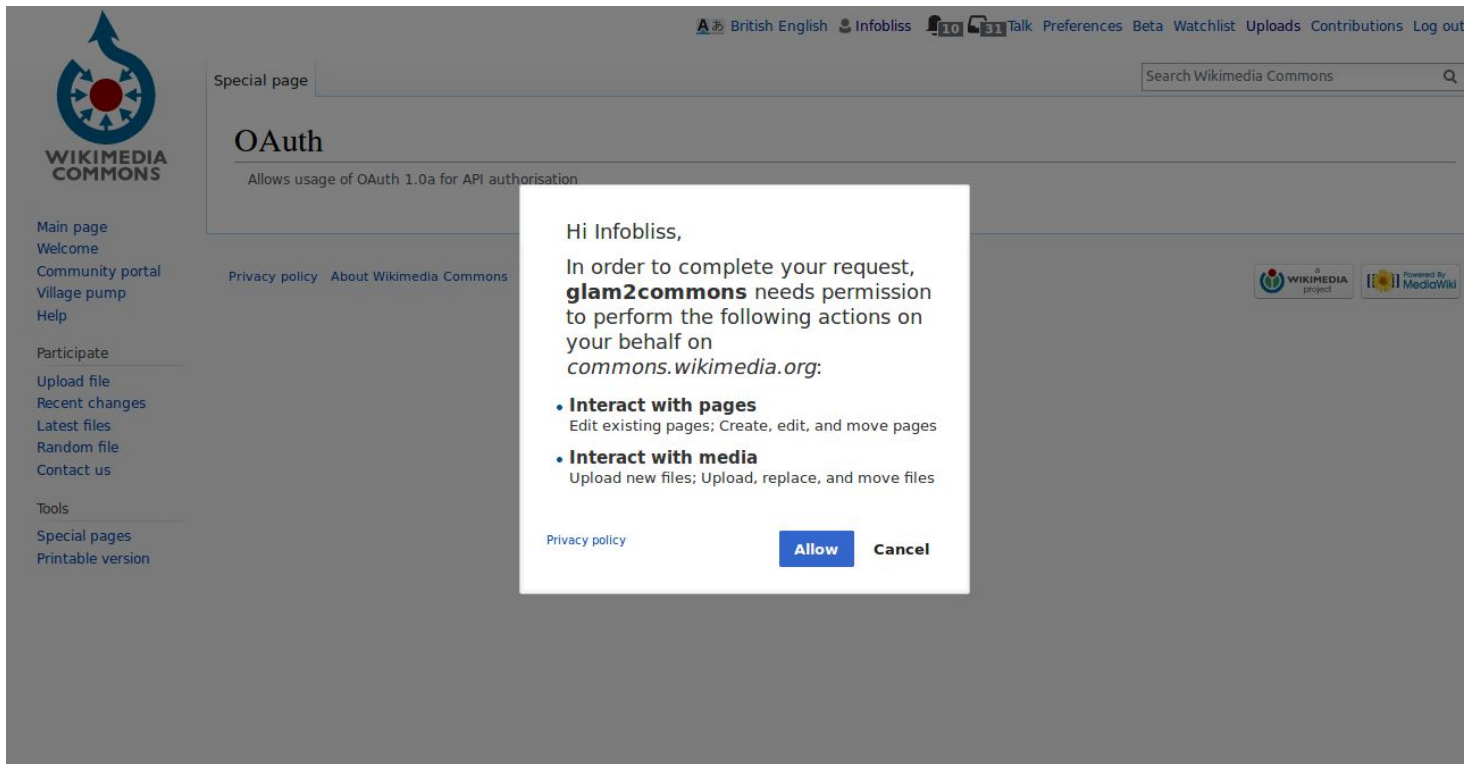
**Log in**

[Help with logging in](#)  
[Forgot your password?](#)

**Don't have an account?**

[Join Wikimedia Commons](#)

# Allow some rights



The screenshot shows a Wikimedia Commons page with a modal dialog box for OAuth authorization. The dialog box is white with a blue border and contains the following text:

Hi Infobliss,

In order to complete your request, **glam2commons** needs permission to perform the following actions on your behalf on *commons.wikimedia.org*:

- **Interact with pages**  
Edit existing pages; Create, edit, and move pages
- **Interact with media**  
Upload new files; Upload, replace, and move files

At the bottom of the dialog box, there is a link for "Privacy policy" and two buttons: "Allow" (in a blue box) and "Cancel".

The background page is dimmed and shows the Wikimedia Commons logo, a search bar, and a navigation menu. The page title is "OAuth" and the subtitle is "Allows usage of OAuth 1.0a for API authorisation".

# The form



## Upload Images from GLAM to Commons

[Home](#)

[Help](#)



Hello Infobliss!

[Logout](#)

### Upload a Single Image or Choose from a Gallery of Images by entering a Search Term

To upload one or multiple images first select a GLAM

-- Choose GLAM --

Either enter a URL/Unique ID to upload a single file or enter a Search Term to search for multiple files

URL/Unique ID of image (Ignored if Search Term is given)

Search Term (for multiple image upload)

Image Category (What kind of image is it?)

Add another category

Please be patient after hitting this button while we look up the images

# Single image upload using image url or unique ID

## Upload a Single Image or Choose from a Gallery of Images by entering a Search Term

To upload one or multiple images first select a GLAM

Nationaal Archief

The national archive of the Netherlands, located in The Hague

Either enter a URL/Unique ID to upload a single file or enter a Search Term to search for multiple files

`http://proxy.handle.net/10648/ad4bdd30-d0b4-102d-bcf8-003048976d84`

Sample URL: `http://proxy.handle.net/10648/aa704164-d0b4-102d-bcf8-003048976d84`

Sample Unique ID: `aa704164-d0b4-102d-bcf8-003048976d84`

Search Term (for multiple image upload)

Prime Ministers of India

Add another category

Rajiv Gandhi

Please be patient after hitting this button while we look up the images

# Single image successfully uploaded



## Upload Images from GLAM to Commons

[Home](#)

[Help](#)



The image with id "<http://proxy.handle.net/10648/ad4bdd30-d0b4-102d-bcf8-003048976d84>" from "Nationaal Archief" is now available in Wikimedia Commons!

Find the Wikimedia Commons link [here](#)

# If a duplicate image already exists in Commons



## Upload Images from GLAM to Commons

[Home](#)

[Help](#)



duplicate: Uploaded file is a duplicate of ['Aankomst\_Israelische\_filmster\_Aliza\_Gur\_Miss\_Israel\_1960,\_speelde\_in\_James\_Bondfilm\_-\_916-6304\_-\_NA.jpg'].



# If the given image url is incorrect



## Upload Images from GLAM to Commons

[Home](#)

[Help](#)



Invalid image id <http://proxy.handle.net/10648/aa704164-d0b4-102d-bcf8-003048976daa>



# Multiple image upload using a search string



## Upload Images from GLAM to Commons

Home

Help



Hello Infobliss!

Logout

### Upload a Single Image or Choose from a Gallery of Images by entering a Search Term

To upload one or multiple images first select a GLAM

Nationaal Archief

The national archive of the Netherlands, located in The Hague

Either enter a URL/Unique ID to upload a single file or enter a Search Term to search for multiple files

URL/Unique ID of image (ignored if Search Term is given)

Sample URL: <http://proxy.handle.net/10648/aa704164-d0b4-102d-bcf8-003048976d84>

Sample Unique ID: aa704164-d0b4-102d-bcf8-003048976d84

Gandhi

Gandhi

Add another category

Add

Upload or See Image Gallery

Please be patient after hitting this button while we look up the images

# The image gallery to choose form



## Upload Images from GLAM to Commons

[Home](#)

[Help](#)



Hello Infobliss!

[Logout](#)

Please select the checkboxes of the images you want to upload



[Upload to Commons](#)

Note: Uploading a lot of images may take about a minute. Please don't hit refresh or the back button

# When multiple images are uploaded



## Upload Images from GLAM to Commons

[Home](#)

[Help](#)



The selected images (if any) are now available in Wikimedia Commons! Duplicates are ignored!

[Find the images in your Uploads Page in Wikimedia Commons here](#)

Duplicate files found in Commons (if any) are listed below:

duplicate at [https://commons.wikimedia.org/wiki/File:Bezoek\\_premier\\_Rajiv\\_Gandhi\\_van\\_India;\\_ontvangst\\_op\\_Paleis\\_Huis\\_ten\\_Bosch;\\_Prins\\_Claus, - NA - 933-4642.jpg](https://commons.wikimedia.org/wiki/File:Bezoek_premier_Rajiv_Gandhi_van_India;_ontvangst_op_Paleis_Huis_ten_Bosch;_Prins_Claus_-_NA_-_933-4642.jpg)

duplicate at [https://commons.wikimedia.org/wiki/File:Premier\\_Indira\\_Gandhi\\_\(Congrespartij\)\\_-NA\\_-\\_929-0811.jpg](https://commons.wikimedia.org/wiki/File:Premier_Indira_Gandhi_(Congrespartij)_-NA_-_929-0811.jpg)

# Multiple uploaded images in Wikimedia Commons

[Community portal](#)  
[Village pump](#)  
[Help](#)

[Participate](#)

[Upload file](#)  
[Recent changes](#)  
[Latest files](#)  
[Random file](#)  
[Contact us](#)



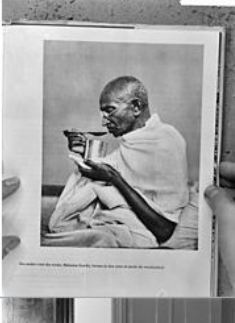
[Tools](#)

[User uploads](#)  
[User contributions](#)  
[Logs](#)  
[Email this user](#)  
[View user groups](#)  
[Special pages](#)  
[Printable version](#)

Items per page:

Username:

Include old versions of images

<b>▼ Date</b>	<b>Name</b>	<b>Thumbnail</b>	<b>Size</b>	<b>Description</b>
18:30, 27 August 2017	<a href="#">Lubbers en premier Gandhi op Schiphol - NA - 934-1090.jpg</a> (file)		1.01 MB	Uploaded from Nationaal Archief with glam2commons tool
18:30, 27 August 2017	<a href="#">Bezoek premier Rajiv Gandhi van India; ontvangst op Paleis Huis ten Bosch; Prins Claus, - NA - 933-4643.jpg</a> (file)		1.32 MB	Uploaded from Nationaal Archief with glam2commons tool
18:30, 27 August 2017	<a href="#">Mahatma Gandhi - NA - 916-6994.jpg</a> (file)		1.41 MB	Uploaded from Nationaal Archief with glam2commons tool

# The Help Page



## Upload Images from GLAM to Commons

[Home](#)

[Help](#)



This tool is called Glam2Commons. Here you will be able to upload images from a set of GLAMs to Wikimedia Commons easily.

### How to use the tool

Step 1: Login with Wikimedia Commons.

Step 2: Choose the GLAM from the dropdown.

Step 3.a: Enter the URL or Unique ID of the image if known.

Step 3.b: Or enter a Search Term.

Step 4: You may optionally provide the categories of the images as well.

Step 5: Hit "Upload or See Image Gallery" button

Step 6: If you have entered a search string then you will see an image gallery. Choose the images you want to upload and hit "Upload to Commons" button

The image/images will be uploaded to Wikimedia Commons and you will be shown their location in Wikimedia Commons. To do another upload click on the "Home" menu and repeat the previous steps.

Note: Some images may be copyright protected hence the tool will attempt to not allow those images to upload to Commons. But the user should also verify that the image has appropriate license for upload.

# Enhance usability of Wikimedia Programs and Events Dashboard managed by Wiki Education Foundation.

Sejal Khatri

Mentors: Sage Ross and Jonathan Morgan.

*[Wiki Ed Dashboard](#) started as Wiki Education Foundation's platform for helping people get started with editing Articles on Wikipedia and helping professors run assignments where their students edit Wikipedia.*

The Dashboard code runs 2 main projects

- [The Wiki Education Foundation Dashboard](#) : The use case(scope) for this project is limited to higher education programs in United States and Canada.
- [Wikimedia Programs & Events Dashboard](#) : For global Wikimedia community to organize all kinds of programs, including edit-a-thons, education programs, and other events. *Dashboard also helps in keeping a track of all the contributions made by the participants during the programs.*





# Enhance usability of Wikimedia Programs and Events Dashboard managed by Wiki Education Foundation.

Sejal Khatri

*For the first part of my Internship, I did some code refining for the user contribution stats and successfully made them available on the user profile pages. Along with that, I solved some issues listed on my GSoC proposal.*

## Links:

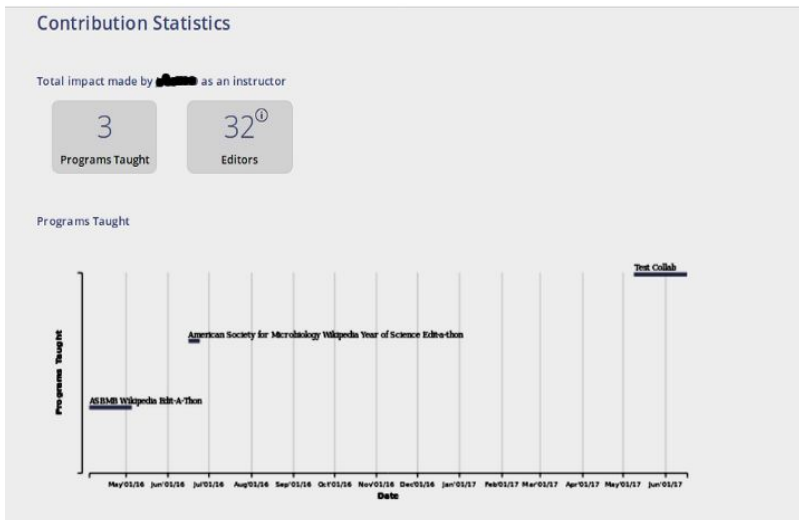
- [Vega Js](#): **Vega** is a *visualization grammar*, a declarative language for creating, saving, and sharing interactive visualization designs. A Vega *specification* defines an interactive visualization in a [JSON](#) format.
- Added info mouseovers to explain Assign and Review buttons within the MyArticles component: [Pull request\(merged and deployed\)](#) Work done on adding the info mouse overs and handling on click outside event.



# Enhance usability of Wikimedia Programs and Events Dashboard managed by Wiki Education Foundation.

Sejal Khatri

Visualizations:



# Enhance usability of Wikimedia Programs and Events Dashboard managed by Wiki Education Foundation.

Sejal Khatri

*For the second part of my Internship, I started conducting user testing sessions, solved some discovered issues right away and for others I opened issues on GitHub. Major part was getting in touch with [Dashboard](#) users from all across the world (Israel, Canada, USA, Egypt, Serbia, Czech Republic), interacting with them, organizing user testing sessions and helping them with their frustrations and understanding their needs.*

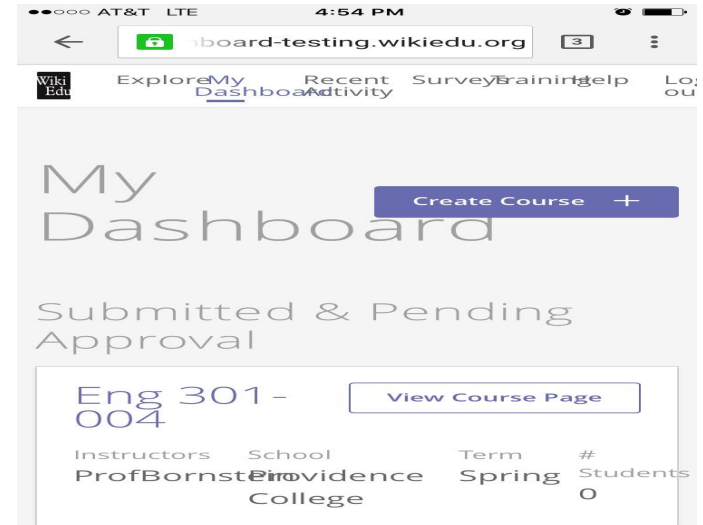
## Issues resolved:

- [Take care of the condition when data for calculating Article Page Views is not available](#)
- [Improve styling of DatePicker div in the Create New Course Page.](#) - Made it accessible on all the browsers.
- [Add explanation for the submitted field in the course details section](#)
- [Improve the page layout for course cloned page and add validation for the title input in the details section of course page](#)

# Enhance usability of Wikimedia Programs and Events Dashboard managed by Wiki Education Foundation.

Sejal Khatri

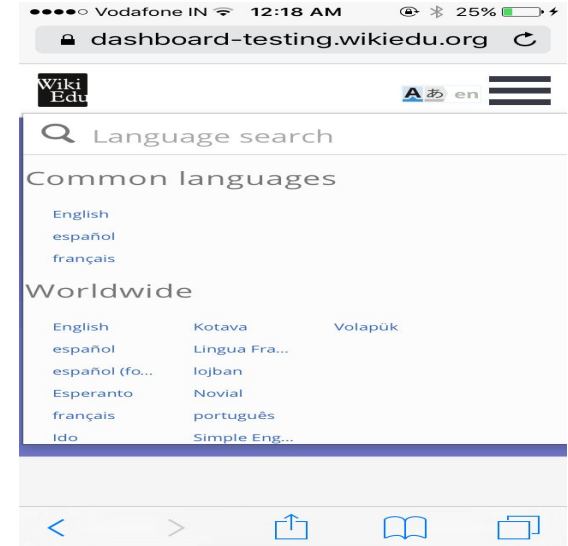
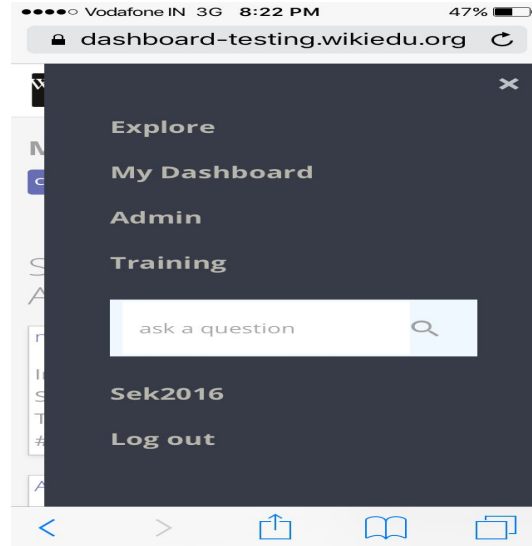
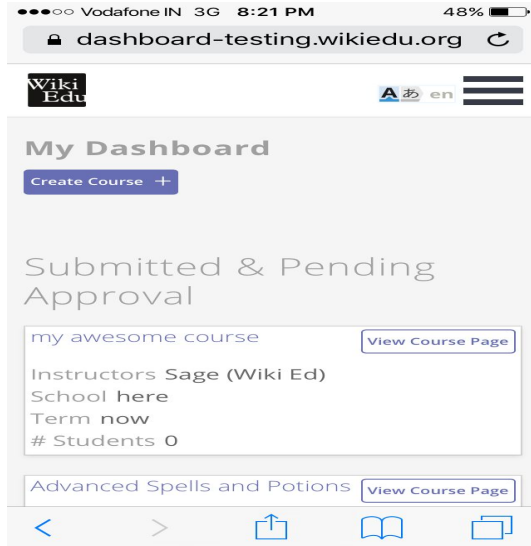
*For the third part of my Internship, I started working on enhancing the usability of Dashboard on Mobile devices. The navigation bar was overcrowded, so to make it accessible I replaced it with hamburger menu layout. Solved problems like the overlapping of course details columns and inflexibility in using the Dashboard features on small screen devices.*



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# Enhance usability of Wikimedia Programs and Events Dashboard managed by Wiki Education Foundation.

Sejal Khatri



# Automatic editing suggestions and feedback for articles in Wiki Ed Dashboard

Keerthana S

The idea of the project was to try and use ORES (Object Revision Evaluation Service) as a tool to provide some automatic feedback on the articles being edited by the users of the dashboard.

The ORES predicted article grade was used to give the users some insight on what their article might be missing and what sort of improvements can be done to an article.

## Feedback

Predicted rating for the article is : FA

Featured article — Wikipedia's highest rating, probably too mature an article for a new editor's main project

No further content additions should be necessary unless new information becomes available; further improvements to the prose quality are often possible.

More Suggestions :

- [no suggestions available]

Okay

Are these suggestions helpful?

Submit

ORES features like number of references and number of citations can be used to provide some additional feedback. I have documented the ORES features which can be used to build some automatic feedback.



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The later part of my internship dealt with adding a custom feedback section where the students can view custom feedback from instructors and other dashboard users along with automatic feedback.

## Feedback



[Barred owl](#)

**Predicted rating for the article is: FA**

Featured article — Wikipedia's highest rating, probably too mature an article for a new editor's main project

**User Suggestions:**

Your suggestions for the editors of the article

Add Suggestion



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# Allow Programs & Events Dashboard to make automatic edits on connected wikis

Medha Bansal

The WikiEduDashboard code runs two main projects: the Wiki Education Foundation Dashboard(for programs focused on higher education in the US and Canada) and the Wikimedia Programs & Events Dashboard(for the global Wikimedia community).

The Wiki Education Foundation Dashboard has several automatic editing capabilities. The automatic edits – on-wiki program pages, and userpage and article talk templates that link to them – let other editors easily figure out where new editors are coming from, which editors are working together, and who is leading the project.



# Allow Programs & Events Dashboard to make automatic edits on connected wikis

Medha Bansal

With increase in general(non US/Canada university students) userbase, the idea of my project was to bring the automatic editing feature to the P&E Dashboard, so it is at par with the Wiki Education Foundation Dashboard as



# Thank you!



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