Reimplementing IETF Website Wagtail templates

A Request for Proposals issued on 2020-06-29

IETF Executive Director
exec-director@ietf.org

www.ietf.org

Overview

The IETF Administration LLC (IETF LLC) is soliciting bids to provide software development services to re-implement the page templates used by the content management system (CMS) for www.ietf.org and to address issues identified since its initial deployment. The site uses the Wagtail CMS, and currently employs an undocumented HTML/CSS combination to specify the display layout for the webpages it serves.

This work must retain the existing layouts, but re-implement them using a well-known framework such as Bootstrap. Any framework which has wide deployment, an active development community, and robust documentation and support will be considered. This reimplementation would include addressing identified issues in the existing page templates.

Timeline

29 June 2020	Request for Proposals (RFP) Issued
13 July 2020	Questions and Inquiries deadline
20 July 2020	Answers to questions issued and RPF updated if required
27 July 2020	**Bids due**
10 August 2020	Preferred bidder selected and negotiations begin
24 August 2020	Contract execution and work begins

RFP Process

The process for the RFP is as follows:

1. The RFP is publicly issued, posted to our website[1] and announced to the RFP Announcement mailing list[2], which anyone can subscribe to.

2. Potential bidders have until 13 July 2020 to submit any questions by email to ietf-rfps@ietf.org. Questions will be treated as anonymous but not private, as explained below. If you do not receive confirmation that your

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[1] https://www.ietf.org/about/administration/rfps/
[2] https://www.ietf.org/mailman/listinfo/rfp-announce

questions have been received within 24 hours then please check your junk folder for an address confirmation check.

3. A written response to all questions is provided on or before 20 July 2020, direct to those parties that sent questions, by email to the RFP Announcement Mailing List and posted on our website[3]. The response will include the questions asked and the answers, but will not identify the company asking the question. If required, the RFP may be updated to correct or clarify any issues identified.

4. Bids are due by **27 July 2020** by email to ietf-rfps@ietf.org. If you do not receive confirmation that your bid has been received within 24 hours then please check your junk folder for an address confirmation check. The bid should include the following information:

   a. Executive summary

   b. Project approach including any assumptions.

   c. Project plan and schedule including when the work will begin and end, and any other milestones, as well as any dependencies that may delay delivery.

   d. Fee and payment schedule. Fixed priced bids are preferred but if that is not possible then a maximum fee must be specified.

   e. Warranty including a proposal for fee reduction/refund due to late- or non-delivery

5. The IETF Administration LLC and designated contractors and volunteers will select a preferred bid and notify the bidder by 10 August 2020. The selection process may include questions by email and/or conference call.

6. The IETF Administration LLC then enters into contract negotiation with the preferred bidder, based on its standard contract and using the relevant sections of the Statement of Work below. If contract negotiation fails then a different preferred bidder may be chosen.

7. Contract negotiation is anticipated to complete by 24 August 2020 and result in the award of the contract. All RFP contract awards are posted on our website and announced to the RFP Announcement mailing list. The terms of the contract are later posted publicly on our website, with the fee information and signatures (where possible) redacted. In addition any

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[3] https://www.ietf.org/about/administration/rfps/

Conflict of Interest declarations required of the preferred bidder are also posted publicly on our website. This transparency is non-negotiable.

8. Work generally begins immediately after award of the contract, unless specified otherwise in the Statement of Work or negotiated contract.

Jay Daley
IETF Executive Director
IETF Administration LLC

Statement of Work: Improving www.ietf.org webpage templates

Overview

This site www.ietf.org website uses the Wagtail CMS[4], and currently uses an undocumented HTML/CSS combination to specify the display layout for the webpages it serves.

This work is to reimplement the existing layouts using a well-known framework such as Bootstrap[5]. This reimplementation would include addressing identified issues in the existing page templates.

The IETF LLC currently maintains a Github repository[6] that houses the code for the www.ietf.org website and tracks issues related to it.

Deliverables

The following page templates must be re-implemented using the framework:

    I.   Home page
    II.   Index page
    III.   Standard page
    IV.   IESG Statements Index Page
    V.   Blog, News Index Page
    VI.   Blog, News, Statement Page
    VII.   Event listing page
    VIII.   Event page
    IX.   Form page
    X.   Topic page list
    XI.   Topic page

A detailed list of the files that make up these templates and a pointer to the repository is in the Additional Details section below.

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[4] https://wagtail.io/
[5] https://getbootstrap.com
[6] https://github.com/ietf-tools/wagtail_website

Requirements

Wagtail CMS support

The page templates must be implementable in and serveable from the Wagtail CMS system used by the IETF, without any further reworking of content or of the CMS itself.

Look and Feel

The reimplemented page templates should retain the look and function of the current webpages to the closest extent possible, while still taking advantage of optimizations made possible by the new framework. When these optimizations would result in significant differences in look and function between the existing pages and the reimplementations, guidance will be given by the IETF LLC on how to proceed.

Issues

Reimplementation of page templates should also address the following specific issues identified in the Github issue tracker[7]:

1. Address issues identified in current CSS and page templates (Issues #1 #15 #24 #25 #41 #43)

2. Develop Print CSS for key pages (Issue #16)

Analytics

All page templates must be updated, as needed, to implement Matomo analytics features such as tag managers.

Website Standards

The resulting web pages must meet the requirements in the IETF Website SOW[8] (2014-06-04) with particular attention to the following sections:

>   7. Standards and Security

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[7] https://github.com/ietf-tools/wagtail_website/issues
[8] https://iaoc.ietf.org/documents/IETF-Website-SOW-20140604-Final.pdf

a. HTML 5 and Open Standards

The website front end must be built with HTML5 and other open web standards. The resulting website will be accessible via both HTTP and HTTPS, and will encourage the use of HTTPS. Functions requiring a user login will only be available over HTTPS.

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c. Plug-ins and Javascript

The redesigned website will not use browser plug-ins. All information should be accessible to visitors with or without javascript. If javascript is used, it should be self-contained (i.e. loaded from the IETF website) and implemented so that the website is responsive.

8. Functional Requirements

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d. Accessibility

   i.   The site will be coded in compliance with the Web Content
        Accessibility Guidelines (WCAG) 2.0:
   ii. Text equivalent will be available for all non-text content. This will
        involve providing alternative description in the alt attribute for
        image tags or in-element content.

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e. Responsive Design

The IETF website will adapt itself to provide the best user experience based on the device being used. Responsive design can make content truly accessible, not only in terms of assistive devices, but also serving content to the widest cross section of devices and connection speeds. Responsive design consists of three elements:

   i.   Different layouts for different devices (Adaptive layout) - the site
        display is based on what device is requesting the site
   ii. Fluid grid - the site uses percentages to define layout, so that the
        content scales. This is another way to ensure that the content
        presentation does not interfere with accessibility.

  iii. Flexible media/images - images and other media display based on adaptive layout. For accessibility purposes, we can easily display alt text, links to transcripts, and lower resolution for slower connections.

Additional Details

Current HTML and CSS for the templates can be found in the GitHub repository[9]. The files in the repository are listed below for reference:

Template files

ietf/snippets/templates/snippets/call_to_action.html

ietf/snippets/templates/snippets/browse.html

ietf/snippets/templates/snippets/group.html

ietf/snippets/templates/snippets/_snippet_link_types.html

ietf/snippets/templates/snippets/disclaimer.html

ietf/snippets/templates/snippets/includes/_results.html

ietf/snippets/templates/snippets/mailing_list_signup.html

ietf/snippets/templates/snippets/area_charter.html

ietf/home/templates/home/home_page.html

ietf/home/templates/includes/event-w-image.html

ietf/forms/templates/forms/form_page_landing.html

ietf/forms/templates/forms/form_page.html

ietf/iesg_statement/templates/iesg_statement/iesg_statement_page.html

ietf/iesg_statement/templates/iesg_statement/iesg_statement_index_page.html

ietf/bibliography/templates/bibliography/item_internetdraft.html

ietf/bibliography/templates/bibliography/item_glossaryitem.html

ietf/bibliography/templates/bibliography/referenced_objects.html

ietf/bibliography/templates/bibliography/bibliography.html

ietf/bibliography/templates/bibliography/item_rfc.html

ietf/bibliography/templates/bibliography/referencing_pages.html

ietf/bibliography/templates/bibliography/referenced_types.html

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[9] https://github.com/ietf-tools/wagtail_website/tree/master/ietf

ietf/bibliography/templates/bibliography/item_charter.html

ietf/blog/templates/blog/blog_index_page.html

ietf/blog/templates/blog/blog_page.html

ietf/standard/templates/standard/standard_page.html

ietf/standard/templates/standard/standard_index_page.html

ietf/search/templates/search/search.html

ietf/glossary/templates/glossary/glossary_page.html

ietf/templates/base.html

ietf/templates/includes/related_links.html

ietf/templates/includes/highlight.html

ietf/templates/includes/imageblock.html

ietf/templates/includes/social_fields.html

ietf/templates/includes/row_siblings_in_section.html

ietf/templates/includes/social-sharebar.html

ietf/templates/includes/optional-introduction.html

ietf/templates/includes/children_in_this_section.html

ietf/templates/includes/breadcrumbs.html

ietf/templates/includes/streamfield.html

ietf/templates/includes/footer.html

ietf/templates/includes/header.html

ietf/templates/500.html

ietf/templates/404.html

ietf/documents/templates/wagtaildocs/documents/list.html

ietf/datatracker/templates/snippets/working_group.html

ietf/datatracker/templates/snippets/working_group_charter.html

ietf/datatracker/templates/snippets/_browse_results.html

ietf/datatracker/templates/snippets/internet_draft.html

ietf/datatracker/templates/snippets/rfc.html

ietf/datatracker/templates/datatracker/status.html

ietf/datatracker/templates/datatracker/person.html

ietf/events/templates/events/includes/link_block.html

ietf/events/templates/events/event_listing_page.html

ietf/events/templates/events/event_page.html

ietf/topics/templates/topics/secondary_topic_page.html

ietf/topics/templates/topics/topic_index_page.html

ietf/topics/templates/topics/primary_topic_page.html

Styling files

ietf/static/css/variables.scss

ietf/static/css/fonts.scss

ietf/static/css/grid.scss

ietf/static/css/table.scss

ietf/static/css/jsenabled.scss

ietf/static/css/mixins.scss

ietf/static/css/main.scss

ietf/static/css/vendor/_ionicons-icons.scss

ietf/static/css/vendor/_ionicons-font.scss

ietf/static/css/vendor/_ionicons-variables.scss

ietf/static/css/vendor/normalize.scss

ietf/static/css/vendor/ionicons.scss