Abstract

RFC 5988 [RFC5988] defined the way of indicating resources on the Web. This specification defines link relation types which may be used to express the relationships between a resource and an input form for constructing entry submissions, or between any kind of entry and a pre-populated input form for modifying the associated entry.

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Table of Contents

1. Introduction .................................................. 3
2. Notational Conventions ....................................... 3
3. Link Relations .................................................. 3
   3.1. The "create-form" Link Relation .......................... 3
   3.1.1. Using the "create-form" Link Relation ............... 3
   3.2. The "update-form" Link Relation ......................... 4
   3.2.1. Using the "update-form" Link Relation ............... 5
4. IANA Considerations ........................................... 5
   4.1. The Link Relation Registration "create-form" ........... 5
   4.2. The Link Relation Registration "update-form" ........... 6
5. Security Considerations ....................................... 6
6. Internationalisation Considerations ........................ 6
7. Normative References ......................................... 6
Appendix A. Acknowledgements ................................. 7
1. Introduction

RFC 5988 [RFC5988] defined the way of indicating resources on the Web. This specification defines link relation types which may be used to express the relationships between a resource and an input form for constructing entry submissions, or between any kind of entry and a pre-populated input form for modifying the associated entry.

The "create-form" and "update-form" link relations are intentionally generic, and they can be used with multiple media types in a wide variety of use cases.

2. Notational Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

3. Link Relations

The following link relations are defined.

3.1. The "create-form" Link Relation

When included in a resource, the "create-form" link relation MAY identify a target resource that represents the form to append a new member to the link context.

```html
<html>
<ul>
<li>Entry Description 1</li>
<li>Entry Description 2</li>
</ul>
<a href="..." rel="create-form">[Add New Entry]</a>
</html>
```

or, expressed as a Link header

```
Link: <...>; rel="create-form"; title="Add New Entry"
```

3.1.1. Using the "create-form" Link Relation

If the media type, used for constructing submission form, supports target URI information provisioning, explicitly specified target URI MUST be used by clients for submitting the populated form. Context URI MUST be used otherwise.

If the media type, used for constructing submission form, supports
method information provisioning, explicitly specified request method
MUST be used by clients for submitting the populated form. HTTP’s
POST method MUST be used otherwise.

If the media type, used for constructing submission form, supports
content encoding information provisioning, form data MUST be encoded
according to the explicitly specified encoding type before
submission. The media type used for constructing form MUST be used
otherwise.

When submitting forms in unsupported media type format, service
SHOULD respond to the client with HTTP’s 415 Unsupported Media Type
status code. See example below:

HTTP/1.1 415 Unsupported Media Type
Link: <...>; rel="create-form"; title="Create new entry"
Content-Type: text/html
Content-Length: ...

<html>
  Use <a href="..." rel="create-form">
    this form
  </a> to create a new entry.
</html>

3.2. The "update-form" Link Relation

When included in a resource which represents particular entry, the
"update-form" link relation identifies a target resource that
represents a pre-populated form for editing associated entry.

<html>
  ...
  <ul>
    <li>
      Entry Description 1
      <a href="..." rel="update-form">[Edit Entry]</a>
    </li>
  </ul>
  ...
</html>

or, expressed as a Link header

Link: <...>; rel="update-form"; title="Edit Entry"
3.2.1. Using the "update-form" Link Relation

If the media type, used for constructing submission form, supports target URI information provisioning, explicitly specified target URI MUST be used by clients for submitting the populated form. Context URI MUST be used otherwise.

If the media type, used for constructing submission form, supports method information provisioning, explicitly specified request method MUST be used by clients for submitting the populated form. HTTP’s PUT method MUST be used otherwise.

If the media type, used for constructing submission form, supports content encoding information provisioning, form data MUST be encoded according to the explicitly specified encoding type before submission. The media type used for constructing form MUST be used otherwise.

When submitting forms in unsupported media type format, service SHOULD respond to the client with HTTP’s 415 Unsupported Media Type status code. See example below:

```
HTTP/1.1 415 Unsupported Media Type
Link: <...>; rel="update-form"; title="Edit entry"
Content-Type: text/html
Content-Length: ...

<html>
  Use <a href="..." rel="update-form">
    this form
  </a> to update the entry.
</html>
```

4. IANA Considerations

IANA is asked to register the "create-form" and "update-form" link relations below as per [RFC5988].

4.1. The Link Relation Registration "create-form"

Relation Name:

```
create-form
```

Description:

The target IRI points to a resource that is a representation of a valid submission form for the data described by the form resource.
representation.

Security considerations:

Automated agents should take care when this relation crosses administrative domains (e.g., the URI has a different authority than the current document).

Reference:

See Section 3.

4.2. The Link Relation Registration "update-form"

Relation Name:

update-form

Description:

The target IRI points to a resource that is a representation of a valid pre-populated submission form for editing the data represented by the associated entry.

Security Considerations:

Automated agents should take care when this relation crosses administrative domains (e.g., the URI has a different authority than the current document).

Reference:

See Section 3.

5. Security Considerations

See Section 7 of RFC5988 [RFC5988].

6. Internationalisation Considerations

See Section 8 of RFC5988 [RFC5988].

7. Normative References


Appendix A. Acknowledgements

The author gratefully acknowledges the contributions of Jan Algermissen.

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