
py-hpalm Documentation

Release 0.0.2

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1.1 Installing from source

1. Download a copy of the code from GitHub. You may need to install `git`.

```
git clone https://github.com/vkosuri/py-hpalm.git
```

2. It is recommended to use a virtual environment to avoid need of `sudo`.

```
virtuenv venv  
source venv/bin/activate
```

3. Upgrade `pip` after activating the virtual environment.

```
pip install --upgrade pip  
pip install -r requirements.txt
```


2.1 Description

The collection of Defects in the project.

2.2 URL

`/qcbn/rest/domains/{domain}/projects/{project}/defects`

2.3 Remarks

To create a new defect, POST an XML compliant with the Entity Schema that contains definitions for all the required fields.

For bulk updates, deletions, and creation, see Bulk Operations.

2.4 HTTP Methods

GET: Returns the collection of defects.

PUT: Bulk update with type=collection.

DELETE: Bulk deletion with type=collection.

POST: Creates a new defect resource. Bulk creation with type=collection.

Media Type	GET	PUT	DELTE	POST
application/xml	YES	–	–	YES
application/json	YES	–	–	YES
application/xml;type=collection	–	YES	YES	YES
application/json;type=collection	–	YES	YES	YES

2.5 Returns

One of the HTTP Return Codes.

On a GET operation, an XML string compliant with the Entities Collection Schema or a string containing the data in another supported format.

On a POST operation, the full data of the created defect in an XML string compliant with the Entity Schema or a string containing the data in another supported format.

2.6 GET Defects XML

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<!--
GET: /qcbn/rest/domains/DOMAIN_NAME/projects/PROJECT_NAME/defects
Accept: application/xml
-->
<Entities TotalResults="2">
  <Entity Type="defect">
    <Fields>
      <Field Name="has-change">
        <Value/>
      </Field>
      <Field Name="planned-closing-ver">
        <Value/>
      </Field>
      <Field Name="test-reference">
        <Value/>
      </Field>
      <Field Name="subject">
        <Value/>
      </Field>
      <Field Name="reproducible">
        <Value/>
      </Field>
      <Field Name="request-id">
        <Value/>
      </Field>
      <Field Name="data">
        <Value/>
      </Field>
      <Field Name="request-server">
        <Value/>
      </Field>
      <Field Name="id">
        <Value>1</Value>
      </Field>
    </Fields>
  </Entity>
</Entities>
```

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```

</Field>
<Field Name="others-linkage">
  <Value>N</Value>
</Field>
<Field Name="description">
  <Value/>
</Field>
<Field Name="priority">
  <Value/>
</Field>
<Field Name="name">
  <Value>Returned XML cannot be validated against XSD.</Value>
</Field>
<Field Name="run-reference">
  <Value/>
</Field>
<Field Name="cycle-reference">
  <Value/>
</Field>
<Field Name="dev-comments">
  <Value/>
</Field>
<Field Name="creation-time">
  <Value>2010-03-02</Value>
</Field>
<Field Name="to-mail">
  <Value/>
</Field>
<Field Name="request-note">
  <Value/>
</Field>
<Field Name="closing-version">
  <Value/>
</Field>
<Field Name="cycle-id">
  <Value/>
</Field>
<Field Name="detection-version">
  <Value/>
</Field>
<Field Name="last-modified">
  <Value>2010-03-04 14:30:00</Value>
</Field>
<Field Name="status">
  <Value/>
</Field>
<Field Name="closing-date">
  <Value/>
</Field>
<Field Name="linkage">
  <Value>N</Value>
</Field>
<Field Name="detected-in-rcyc">
  <Value/>
</Field>
<Field Name="detected-in-rel">
  <Value/>

```

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```

</Field>
<Field Name="severity">
  <Value>2-Medium</Value>
</Field>
<Field Name="bug-ver-stamp">
  <Value>1</Value>
</Field>
<Field Name="attachment">
  <Value/>
</Field>
<Field Name="extended-reference">
  <Value/>
</Field>
<Field Name="estimated-fix-time">
  <Value/>
</Field>
<Field Name="target-rel">
  <Value/>
</Field>
<Field Name="project">
  <Value/>
</Field>
<Field Name="detected-by">
  <Value>sa</Value>
</Field>
<Field Name="step-reference">
  <Value/>
</Field>
<Field Name="owner">
  <Value/>
</Field>
<Field Name="target-rcyc">
  <Value/>
</Field>
<Field Name="actual-fix-time">
  <Value/>
</Field>
<Field Name="request-type">
  <Value/>
</Field>
</Fields>
</Entity>
<Entity Type="defect">
  <Fields>
    <Field Name="has-change">
      <Value/>
    </Field>
    <Field Name="planned-closing-ver">
      <Value/>
    </Field>
    <Field Name="test-reference">
      <Value/>
    </Field>
    <Field Name="subject">
      <Value/>
    </Field>
    <Field Name="reproducible">

```

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```

        <Value/>
    </Field>
    <Field Name="request-id">
        <Value/>
    </Field>
    <Field Name="data">
        <Value/>
    </Field>
    <Field Name="request-server">
        <Value/>
    </Field>
    <Field Name="id">
        <Value>2</Value>
    </Field>
    <Field Name="others-linkage">
        <Value>N</Value>
    </Field>
    <Field Name="description">
        <Value>Problem observed with temp lt 4 and humidity gt 60.</Value>
    </Field>
    <Field Name="priority">
        <Value/>
    </Field>
    <Field Name="name">
        <Value>Car does not start in cold weather.</Value>
    </Field>
    <Field Name="run-reference">
        <Value/>
    </Field>
    <Field Name="cycle-reference">
        <Value/>
    </Field>
    <Field Name="dev-comments">
        <Value/>
    </Field>
    <Field Name="creation-time">
        <Value>2010-03-02</Value>
    </Field>
    <Field Name="to-mail">
        <Value/>
    </Field>
    <Field Name="request-note">
        <Value/>
    </Field>
    <Field Name="closing-version">
        <Value/>
    </Field>
    <Field Name="cycle-id">
        <Value/>
    </Field>
    <Field Name="detection-version">
        <Value/>
    </Field>
    <Field Name="last-modified">
        <Value>2010-03-04 14:32:56</Value>
    </Field>
    <Field Name="status">

```

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```

        <Value/>
    </Field>
    <Field Name="closing-date">
        <Value/>
    </Field>
    <Field Name="linkage">
        <Value>N</Value>
    </Field>
    <Field Name="detected-in-rcyc">
        <Value/>
    </Field>
    <Field Name="detected-in-rel">
        <Value/>
    </Field>
    <Field Name="severity">
        <Value>3-High</Value>
    </Field>
    <Field Name="bug-ver-stamp">
        <Value>2</Value>
    </Field>
    <Field Name="attachment">
        <Value/>
    </Field>
    <Field Name="extended-reference">
        <Value/>
    </Field>
    <Field Name="estimated-fix-time">
        <Value/>
    </Field>
    <Field Name="target-rel">
        <Value/>
    </Field>
    <Field Name="project">
        <Value/>
    </Field>
    <Field Name="detected-by">
        <Value>sa</Value>
    </Field>
    <Field Name="step-reference">
        <Value/>
    </Field>
    <Field Name="owner">
        <Value/>
    </Field>
    <Field Name="target-rcyc">
        <Value/>
    </Field>
    <Field Name="actual-fix-time">
        <Value/>
    </Field>
    <Field Name="request-type">
        <Value/>
    </Field>
</Fields>
</Entity>
</Entities>

```

2.7 POST Defect XML

```
<!--  
POST: /qcbn/rest/domains/DOMAIN_NAME/projects/PROJECT_NAME/defects  
Content-Type: application/xml  
-->  
<Entity Type="defect">  
  <Fields>  
    <Field Name="detected-by">  
      <Value>sa</Value>  
    </Field>  
    <Field Name="creation-time">  
      <Value>2010-03-02</Value>  
    </Field>  
    <Field Name="severity">  
      <Value>2-Medium</Value>  
    </Field>  
    <Field Name="name">  
      <Value>Returned XML cannot be validated against XSD.</Value>  
    </Field>  
  </Fields>  
</Entity>
```

Requirements Collection

3.1 Description

The collection of Requirements in the project.

3.2 URL

`/qcbn/rest/domains/{domain}/projects/{project}/requirements`

3.3 Remarks

For bulk updates, deletions, and creation, see Bulk Operations.

Passing data in PUT or POST requests that contain fields that do not belong to the requirement's type is an error.

3.4 HTTP Methods

GET: Retrieves the list of requirements.

PUT: Bulk update with `type=collection`.

DELETE: Bulk deletion with `type=collection`.

POST: Creates a new requirement. Bulk creation with `type=collection`.

Media Type	GET	PUT	DELTE	POST
application/xml	YES	–	–	YES
application/json	YES	–	–	YES
application/xml;type=collection	–	YES	YES	YES
application/json;type=collection	–	YES	YES	YES

3.5 Returns

One of the HTTP Return Codes.

On a GET operation, an XML string compliant with the Entities Collection Schema or a string containing the data in another supported format.

On a POST operation, the full data of the created defect in an XML string compliant with the Entity Schema or a string containing the data in another supported format.

3.6 GET requirements XML

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<!--
GET: /qcbn/rest/domains/DOMAIN_NAME/projects/PROJECT_NAME/requirements
Accept: application/xml
-->
<Entities TotalResults="5">
  <Entity Type="requirement">
    <Fields>
      <Field Name="vc-checkout-comments">
        <Value/>
      </Field>
      <Field Name="rbt-analysis-setup-data">
        <Value/>
      </Field>
      <Field Name="count">
        <Value>0</Value>
      </Field>
      <Field Name="vc-checkin-time">
        <Value/>
      </Field>
      <Field Name="vc-checkout-user-name">
        <Value/>
      </Field>
      <Field Name="rbt-custom-testing-level">
        <Value/>
      </Field>
      <Field Name="rbt-effective-bsns-impact">
        <Value/>
      </Field>
      <Field Name="istemplate">
        <Value>0</Value>
      </Field>
      <Field Name="rbt-bsns-impact">
        <Value/>
      </Field>
    </Fields>
  </Entity>

```

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```

</Field>
<Field Name="vc-version-number">
  <Value>1</Value>
</Field>
<Field Name="comments">
  <Value/>
</Field>
<Field Name="rbt-effective-fail-prob">
  <Value/>
</Field>
<Field Name="request-status">
  <Value/>
</Field>
<Field Name="request-updates">
  <Value/>
</Field>
<Field Name="status">
  <Value>N/A</Value>
</Field>
<Field Name="rbt-assessment-data">
  <Value/>
</Field>
<Field Name="req-type">
  <Value/>
</Field>
<Field Name="linkage">
  <Value>N</Value>
</Field>
<Field Name="rbt-custom-fail-prob">
  <Value/>
</Field>
<Field Name="order-id">
  <Value>1</Value>
</Field>
<Field Name="rbt-testing-level">
  <Value/>
</Field>
<Field Name="vc-checkin-date">
  <Value/>
</Field>
<Field Name="parent-id">
  <Value>-1</Value>
</Field>
<Field Name="target-rel">
  <Value/>
</Field>
<Field Name="rbt-custom-risk">
  <Value/>
</Field>
<Field Name="req-rich-content">
  <Value/>
</Field>
<Field Name="owner">
  <Value/>
</Field>
<Field Name="rbt-effective-risk">
  <Value/>

```

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```

</Field>
<Field Name="request-type">
  <Value/>
</Field>
<Field Name="rbt-last-analysis-date">
  <Value/>
</Field>
<Field Name="traced-from">
  <Value>N</Value>
</Field>
<Field Name="no-of-sons">
  <Value>1</Value>
</Field>
<Field Name="rbt-use-custom-risk">
  <Value/>
</Field>
<Field Name="rbt-testing-hours">
  <Value/>
</Field>
<Field Name="request-id">
  <Value/>
</Field>
<Field Name="data">
  <Value/>
</Field>
<Field Name="request-server">
  <Value/>
</Field>
<Field Name="has-rich-content">
  <Value/>
</Field>
<Field Name="request-assign-to">
  <Value/>
</Field>
<Field Name="vc-checkout-date">
  <Value/>
</Field>
<Field Name="traced-to">
  <Value>N</Value>
</Field>
<Field Name="id">
  <Value>0</Value>
</Field>
<Field Name="rbt-risk">
  <Value/>
</Field>
<Field Name="rbt-effective-func-cmplx">
  <Value/>
</Field>
<Field Name="name">
  <Value>Requirements</Value>
</Field>
<Field Name="rbt-custom-testing-hours">
  <Value/>
</Field>
<Field Name="vc-status">
  <Value/>

```

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```

</Field>
<Field Name="rbt-custom-func-cmplx">
  <Value/>
</Field>
<Field Name="vc-checkin-user-name">
  <Value/>
</Field>
<Field Name="creation-time">
  <Value>2006-10-05</Value>
</Field>
<Field Name="rbt-use-custom-tl-and-te">
  <Value/>
</Field>
<Field Name="request-note">
  <Value/>
</Field>
<Field Name="req-ver-stamp">
  <Value>4</Value>
</Field>
<Field Name="req-time">
  <Value>14:34:58</Value>
</Field>
<Field Name="last-modified">
  <Value>2010-03-15 11:55:58</Value>
</Field>
<Field Name="hierarchical-path">
  <Value>AAA</Value>
</Field>
<Field Name="rbt-use-custom-bsns-impact">
  <Value/>
</Field>
<Field Name="rbt-custom-bsns-impact">
  <Value/>
</Field>
<Field Name="vc-checkout-time">
  <Value/>
</Field>
<Field Name="type-id">
  <Value>1</Value>
</Field>
<Field Name="attachment">
  <Value/>
</Field>
<Field Name="vc-checkin-comments">
  <Value/>
</Field>
<Field Name="rbt-rnd-estim-effort-hours">
  <Value/>
</Field>
<Field Name="req-product">
  <Value/>
</Field>
<Field Name="rbt-func-cmplx">
  <Value/>
</Field>
<Field Name="rbt-use-custom-fail-prob">
  <Value/>

```

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```
</Field>
<Field Name="rbt-use-custom-func-cmplx">
  <Value/>
</Field>
<Field Name="req-reviewed">
  <Value>Not Reviewed</Value>
</Field>
<Field Name="rbt-analysis-result-data">
  <Value/>
</Field>
<Field Name="target-rcyc">
  <Value/>
</Field>
<Field Name="req-comment">
  <Value/>
</Field>
<Field Name="req-priority">
  <Value/>
</Field>
<Field Name="rbt-ignore-in-analysis">
  <Value/>
</Field>
<Field Name="rbt-analysis-parent-req-id">
  <Value/>
</Field>
<Field Name="rbt-fail-prob">
  <Value/>
</Field>
<Field Name="father-name">
  <Value/>
</Field>
</Fields>
</Entity>
</Entities>
```