

User Stories for MS CRM APIs - Framework

/Framework

User Story

As an API user, I want to retrieve all frameworks in a paged list

Acceptance Criteria

- a user should be able to retrieve all framework records in CRM in a paged list
- if there are no framework records, then an empty list should be returned
- a user should be able to specify how many records (page size) are returned at a time
- a user should be able to specify an offset (index) into the total records
- if a user specifies an invalid value for how many records (page size), it should use a default value (20)
- if a user specifies an invalid value for an offset (index), it should use a default value (1)

Test Cases

The one where...	Test Case
I retrieve all frameworks in one page	Given: there are (1, 2, 19, 20) framework records in CRM (F00, F01, ..) When: I call the API with default parameters Then: all framework records (F00, F01, ..) are returned And: a HTTP status code of 200 is returned
there are no frameworks	Given: there are no framework records in CRM When: I call the API with default parameters Then: an empty list of framework records is returned And: a HTTP status code of 200 is returned
I retrieve the first 3 frameworks	Given: there are 66 framework records in CRM (F00 .. F65) When: I call the API with a page size of 3 and an index of 1 Then: framework records (F00, F01, F02) are returned And: a HTTP status code of 200 is returned
I retrieve the second 3 frameworks	Given: there are 66 framework records in CRM (F00 .. F65) When: I call the API with a page size of 3 and an index of 2 Then: framework records (F03, F04, F05) are returned And: a HTTP status code of 200 is returned
I specify an invalid page size	Given: there are 66 framework records in CRM (F00 .. F65) When: I call the API with a page size of (-1, 0, 21, 60) Then: first 20 (default page size) framework records (F00 .. F19) are returned And: a HTTP status code of 200 is returned
I specify an invalid index	Given: there are 66 framework records in CRM (F00 .. F65) When: I call the API with an index of (-1, 0) Then: first 20 (default page size) framework records (F00 .. F19) are returned And: a HTTP status code of 200 is returned

/Framework/Create

User Story

As an API user, I want to create a new framework

Acceptance Criteria

- a user should be able to create a new framework and have this new framework returned to them
- if the previous framework does not exist, then an error code should be returned

Test Cases

The one where...	Test Case
I create a new framework	Given: there are no framework records in CRM And: I create an in-memory framework record (F00) When: I call the API with a framework record (F00) Then: a framework record (F00) is returned with its CRM identifier And: a HTTP status code of 200 is returned
I create a new framework with a previous version	Given: there is a framework record in CRM (F00) And: I create an in-memory framework record (F01) which references a previous version (F00) When: I call the API with a framework record (F01) Then: a framework record (F01) is returned with its CRM identifier And: a HTTP status code of 200 is returned
the previous version is not in CRM	Given: there are no framework records in CRM And: I create an in-memory framework record (F00) And: I create an in-memory framework record (F01) which references a previous version (F00) When: I call the API with a framework record (F01) Then: no framework record is returned And: a HTTP status code of 404 is returned

/Framework/Update

User Story

As an API user, I want to change information for an existing framework for an organisation

Acceptance Criteria

- a user should be able to change information about an existing framework for an organisation
- if the previous framework does not exist, then an error code should be returned
- if the framework does not exist, then an error code should be returned

Test Cases

The one where...	Test Case
I update a framework	Given: there is a framework record in CRM (F00) And: I create an in-memory framework record (F00a) based on an existing record (F00) When: I call the API with a framework record (F00a) Then: a HTTP status code of 200 is returned

the framework is not in CRM	Given: there are no framework records in CRM And: I create an in-memory framework record (F00) When: I call the API with a framework record (F00) Then: a HTTP status code of 404 is returned
the previous version is not in CRM	Given: there is a framework record in CRM (F00) And: I create an in-memory framework record (F01) And: I create an in-memory framework record (F00a) based on an existing record (F00) which references a previous version (F01) When: I call the API with a framework record (F01) Then: a HTTP status code of 404 is returned

/Framework/ById/{id}

User Story

As an API user, I want to get a previous version of an existing framework

Acceptance Criteria

- a user should be able retrieve a previous version of an existing framework
- if a previous version does not exist, then an error code should be returned

Test Cases

The one where...	Test Case
I retrieve a framework	Given: there is a framework record in CRM (F00) When: I call the API with a framework identifier (F00) Then: a framework record is returned (F00) And: a HTTP status code of 200 is returned
the framework is not in CRM	Given: there are no framework records in CRM And: I create an in-memory framework record (F00) When: I call the API with a framework identifier (F00) Then: no framework record is returned And: a HTTP status code of 404 is returned

/Framework/BySolution/{solutionId}

User Story

As an API user, I want to get existing framework/s on which a solution was onboarded in a paged list, given the CRM identifier of the solution

Acceptance Criteria

- a user should be able retrieve all frameworks associated with a solution
- if the solution does not exist, then an error code should be returned
- a user should be able to specify how many records (page size) are returned at a time
- a user should be able to specify an offset (index) into the total records
- if a user specifies an invalid value for how many records (page size), it should use a default value (20)
- if a user specifies an invalid value for an offset (index), it should use a default value (1)

Test Cases

The one where...	Test Case
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I retrieve all frameworks in one page	<p>Given: there are (1, 2, 19, 20) framework records (F00, ...) in CRM</p> <p>And: there is a solution record (S00) in CRM</p> <p>And: a solution record (S00) is associated with all frameworks (F00, ...) in CRM</p> <p>When: I call the API with a CRM identifier of a solution (S00)</p> <p>Then: all framework records (F00, ..) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
the solution is not in CRM	<p>Given: there are (1, 2, 19, 20) framework records (F00, ...) in CRM</p> <p>And: I create an in-memory solution record (S00)</p> <p>When: I call the API with a CRM identifier of a framework (F00)</p> <p>Then: an empty list of solution records is returned</p> <p>And: a HTTP status code of 404 is returned</p>
I retrieve the first 3 frameworks	<p>Given: there are 66 framework records (F00, ... F65) in CRM</p> <p>And: there is a solution record (S00) in CRM</p> <p>And: a solution record (S00) is associated with all frameworks (F00, ... F65) in CRM</p> <p>When: I call the API with a page size of 3 and an index of 1 and CRM identifier of a solution (F00)</p> <p>Then: framework records (F00, F01, F02) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
I retrieve the second 3 frameworks	<p>Given: there are 66 framework records (F00, ... F65) in CRM</p> <p>And: there is a solution record (S00) in CRM</p> <p>And: a solution record (S00) is associated with all frameworks (F00, ... F65) in CRM</p> <p>When: I call the API with a page size of 3 and an index of 2 and CRM identifier of a solution (F00)</p> <p>Then: framework records (F03, F04, F05) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
I specify an invalid page size	<p>Given: there are 66 framework records (F00, ... F65) in CRM</p> <p>And: there is a solution record (S00) in CRM</p> <p>And: a solution record (S00) is associated with all frameworks (F00, ... F65) in CRM</p> <p>When: I call the API with a page size of (-1, 0, 21, 60) and CRM identifier of a solution (S00)</p> <p>Then: first 20 (default page size) framework records for (F00 .. F19) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
I specify an invalid index	<p>Given: there are 66 framework records (F00, ... F65) in CRM</p> <p>And: there is a solution record (S00) in CRM</p> <p>And: a solution record (S00) is associated with all frameworks (F00, ... F65) in CRM</p> <p>When: I call the API with an index of (-1, 0) and CRM identifier of a solution (S00)</p> <p>Then: first 20 (default page size) framework records for (F00 .. F19) are returned</p> <p>And: a HTTP status code of 200 is returned</p>

/Framework/ByCapability/{capabilityId}

User Story

As an API user, I want to retrieve all frameworks with a given capability, in a paged list

Acceptance Criteria

- a user should be able to retrieve all frameworks with a given capability, in a paged list
- if there are no framework records, then an empty list should be returned
- a user should be able to specify how many records (page size) are returned at a time
- a user should be able to specify an offset (index) into the total records
- if a user specifies an invalid value for how many records (page size), it should use a default value (20)
- if a user specifies an invalid value for an offset (index), it should use a default value (1)
- if the capability does not exist, then an error code should be returned

Test Cases

The one where...	Test Case
I retrieve all frameworks in one page	<p>Given: there is a capability record in CRM (C00)</p> <p>And: there are (1, 2, 19, 20) framework records (F00, ...) in CRM</p> <p>And: a capability (C00) is associated with all frameworks records (F00 ..) in CRM</p> <p>When: I call the API with a CRM identifier of a capability (C00)</p> <p>Then: all frameworks records (F00 ..) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
the capability is not in CRM	<p>Given: there are no capability records in CRM</p> <p>And: I create an in-memory capability record (C00)</p> <p>When: I call the API with a CRM identifier of a capability (C00)</p> <p>Then: an empty list of solution records is returned</p> <p>And: a HTTP status code of 404 is returned</p>
I retrieve the first 3 frameworks	<p>Given: there is a capability record in CRM (C00)</p> <p>And: there are 66 framework records (F00, ... F65) in CRM</p> <p>And: a capability (C00) is associated with all frameworks records (F00 .. F65) in CRM</p> <p>When: I call the API with a page size of 3 and an index of 1 and CRM identifier of a capability (C00)</p> <p>Then: framework records (F00, F01, F02) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
I retrieve the second 3 frameworks	<p>Given: there is a capability record in CRM (C00)</p> <p>And: there are 66 framework records (F00, ... F65) in CRM</p> <p>And: a capability (C00) is associated with all frameworks records (F00 .. F65) in CRM</p> <p>When: I call the API with a page size of 3 and an index of 2 and CRM identifier of a capability (C00)</p> <p>Then: framework records (F03, F04, F05) are returned</p> <p>And: a HTTP status code of 200 is returned</p>
I specify an invalid page size	<p>Given: there is a capability record in CRM (C00)</p> <p>And: there are 66 framework records (F00, ... F65) in CRM</p> <p>And: a capability (C00) is associated with all frameworks records (F00 .. F65) in CRM</p> <p>When: I call the API with a page size of (-1, 0, 21, 60) and CRM identifier of a capability (C00)</p> <p>Then: first 20 (default page size) framework records for (F00 .. F19) are returned</p> <p>And: a HTTP status code of 200 is returned</p>

I specify an invalid index

Given: there is a capability record in CRM (C00)

And: there are 66 framework records (F00, ... F65) in CRM

And: a capability (C00) is associated with all frameworks records (F00 .. F65) in CRM

When: I call the API with an index of (-1, 0) and CRM identifier of a capability (C00)

Then: first 20 (default page size) framework records for (F00 .. F19) are returned

And: a HTTP status code of 200 is returned