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# User Stories for MS CRM APIs - Contact

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## /Contact/ByOrganisation/{organisationId}

### User Story

As an API user, I want to retrieve all contacts for an organisation in a paged list, given the organisation's CRM identifier

### Acceptance Criteria

- a user should be able to retrieve all contacts for an organisation records in CRM in a paged list
- if there are no contact 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 organisation does not exist, then an error code should be returned

### Test Cases

The one where...	Test Case
I retrieve all contacts in one page	<b>Given:</b> there is an organisation record in CRM (Org00) <b>And:</b> an organisation (Org00) has (1, 2, 19, 20) contact records in CRM (C00 ..) <b>When:</b> I call the API with a CRM identifier of an organisation (Org00) <b>Then:</b> all contact records (C00, ..) are returned <b>And:</b> a HTTP status code of 200 is returned
the organisation is not in CRM	<b>Given:</b> there are no organisation records in CRM <b>And:</b> I create an in-memory organisation record (Org00) <b>When:</b> I call the API with a CRM identifier of an organisation (Org00) <b>Then:</b> an empty list of contact records is returned <b>And:</b> a HTTP status code of 404 is returned

I retrieve the first 3 contacts	<p><b>Given:</b> there is an organisation record in CRM (Org00)</p> <p><b>And:</b> an organisation (Org00) has 66 contact records in CRM (C00 .. C65)</p> <p><b>When:</b> I call the API with a page size of 3 and an index of 1 and CRM identifier of an organisation (Org00)</p> <p><b>Then:</b> contact records (C00, C01, C02) are returned</p> <p><b>And:</b> a HTTP status code of 200 is returned</p>
I retrieve the second 3 contacts	<p><b>Given:</b> there is an organisation record in CRM (Org00)</p> <p><b>And:</b> an organisation (Org00) has 66 contact records in CRM (C00 .. C65)</p> <p><b>When:</b> I call the API with a page size of 3 and an index of 2 and CRM identifier of an organisation (Org00)</p> <p><b>Then:</b> organisation records for (C03, C04, C05) are returned</p> <p><b>And:</b> a HTTP status code of 200 is returned</p>
I specify an invalid page size	<p><b>Given:</b> there is an organisation record in CRM (Org00)</p> <p><b>And:</b> an organisation (Org00) has 66 contact records in CRM (C00 .. C65)</p> <p><b>When:</b> I call the API with a page size of (-1, 0, 21, 60) and CRM identifier of an organisation (Org00)</p> <p><b>Then:</b> first 20 (default page size) organisation records for (C00 .. C19) are returned</p> <p><b>And:</b> a HTTP status code of 200 is returned</p>
I specify an invalid index	<p><b>Given:</b> there is an organisation record in CRM (Org00)</p> <p><b>And:</b> an organisation (Org00) has 66 contact records in CRM (C00 .. C65)</p> <p><b>When:</b> I call the API with an index of (-1, 0) and CRM identifier of an organisation (Org00)</p> <p><b>Then:</b> first 20 (default page size) organisation records for (C00 .. C19) are returned</p> <p><b>And:</b> a HTTP status code of 200 is returned</p>

## /Contact/Create

### User Story

As an API user, I want to create a contact for an organisation

### Acceptance Criteria

- a user should be able to create a new contact for an organisation had have this new contact returned to them
- if the new contact record would be the same as an existing record, then this existing contact record should be returned

- matching algorithm is at discretion of MS CRM (typically email?)
- If the organisation does not exist, then an error code should be returned

## Test Cases

The one where...	Test Case
I create the first contact for an organisation	<p><b>Given:</b> there is an organisation record in CRM (Org00)</p> <p><b>And:</b> an organisation (Org00) has no contact records in CRM</p> <p><b>And:</b> I create an in-memory contact record (C00) which references an organisation (Org00)</p> <p><b>When:</b> I call the API with a contact record (C00)</p> <p><b>Then:</b> a contact record (C00) is returned with its CRM identifier</p> <p><b>And:</b> a HTTP status code of 200 is returned</p>
the organisation is not in CRM	<p><b>Given:</b> there are no organisation records in CRM</p> <p><b>And:</b> I create an in-memory organisation record (Org00)</p> <p><b>And:</b> I create an in-memory contact record (C00) which references an organisation (Org00)</p> <p><b>When:</b> I call the API with a contact record (C00)</p> <p><b>Then:</b> no contact record is returned</p> <p><b>And:</b> a HTTP status code of 404 is returned</p>
I create the same contact for an organisation	<p><b>Given:</b> there is an organisation record in CRM (Org00)</p> <p><b>And:</b> there is a contact record (C00) in CRM</p> <p><b>And:</b> an organisation (Org00) has a contact record (C00) in CRM</p> <p><b>And:</b> I create an in-memory contact record (C00) which references an organisation (Org00)</p> <p><b>When:</b> I call the API with a contact record (C00)</p> <p><b>Then:</b> a contact record (C00) is returned with its CRM identifier</p> <p><b>And:</b> a HTTP status code of 200 is returned</p>
I create a new contact for an organisation	<p><b>Given:</b> there is an organisation record in CRM (Org00)</p> <p><b>And:</b> an organisation (Org00) has 66 contact records in CRM (C00 .. C65)</p> <p><b>And:</b> I create an in-memory contact record (C66) which references an organisation (Org00)</p> <p><b>When:</b> I call the API with a contact record (C66)</p>

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**Then:** a contact record (C66) is returned with its CRM identifier**And:** a HTTP status code of 200 is returned

## /Contact/Update

### User Story

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

### Acceptance Criteria

- a user should be able to change information about an existing contact for an organisation
- if the modified contact record would be the same as an existing record, then an error code should be returned
  - matching algorithm is at discretion of MS CRM (typically email?)
  - if the organisation does not exist, then an error code should be returned
  - if the contact does not exist, then an error code should be returned

### Test Cases

The one where...	Test Case
I update a contact for an organisation	<b>Given:</b> there is an organisation record in CRM (Org00) <b>And:</b> an organisation (Org00) has a contact record (C00) in CRM <b>And:</b> I create an in-memory contact record (C00a) based on an existing record (C00) <b>When:</b> I call the API with a contact record (C00a) <b>Then:</b> a HTTP status code of 200 is returned
the organisation is not in CRM	<b>Given:</b> there are no organisation records in CRM <b>And:</b> there is an existing contact record (C00) in CRM <b>And:</b> I create an in-memory contact record (C00a) based on an existing record (C00) <b>When:</b> I call the API with a contact record (C00a) <b>And:</b> a HTTP status code of 404 is returned
the contact is not in CRM	<b>Given:</b> there is an organisation record in CRM (Org00) <b>And:</b> I create an in-memory contact record (C00a) <b>When:</b> I call the API with a contact record (C00a)

Stories for MS CRM APIs - Organisation	<b>Then:</b> a HTTP status code of 404 is returned
the modified contact is the same as an existing contact for an organisation	<b>Given:</b> there is an organisation record in CRM (Org00) <b>And:</b> an organisation (Org00) has a contact record (C00) in CRM <b>When:</b> I call the API with a contact record (C00) <b>Then:</b> a HTTP status code of 500 is returned

No labels