GFC Form Schema Documentation

The Give Feedback On Care application is driven by a JSON schema file that contains all of the following:

Top Level JSON Properties

```
JSON
{
    "id": "70200afc0-ce7a-478e-91ee-9f99c3bae03c",
    "version": "7.0.2",
    "form_name": "give-feedback-on-care",
    "last_modified": "ISODate(\"2020-02-13T00:00:00.000Z\")",
    "pages": []
}
```

The top-level properties are as follows:

Property	Description
id	String: This is the unique identifier used by Cosmos, this is a GUID stored in lowercase
version	String: This is the version of the schema and take the form MAJOR . MINOR . PATCH

form_name	String: This is the name of the schema form and is used in conjunction with the version by the GFC app to identify the schema in the database.
last_modified	String: A special string containing the date this schema was last modified, in ISO format. Automatically populated.
pages	A list of the page objects that make up the schema.

Page JSON Properties

```json
{
    "page_id": "deowhat-you-want-to-tell-us-about",
    "page_title": "Your experience",
    "page_name": "",
    "pre_amble": "",
    "post_amble": "",
    "show_related_content": true | false, currently unused
    "questions": [],
    "buttons": [],
    "previous_pages": [],
    "next_page_id": "give-your-feedback",
    "change_mode_trigger_page_id": "did-you-hear-about-this-form-from-a-charity"
}
```

The page properties are as follows:

Property	Description
page_id	String: The id for the page. It can take any form, so long as it is unique. The id is used by other objects in the JSON such as "**previous_pages**", "**next_page_id**" in order to enable navigation through the form.
page_title	String: The field that populates the html <title> element
page_name	String: The field that populates the main page title on the page. This is rendered as a H1 tag. See Fig. 1.
pre_amble	String: This field prepends a section of text before the questions appear on the page. It can contain escaped html. See Fig. 1.
post_amble	String: This field appends a section of text after any the questions appear on the page, but before the button section. It can contain escaped html. See Fig. 1.
show_related_content	Boolean: Triggers whether a sidebar with related content is shown – *currently unused in v7.3.0*
questions	List of questions on the page - *see below for sub-properties*
buttons	List of buttons on the page - *see below for sub-properties*

previous_pages	List of valid previous pages and question answers that lead to this page - *see below for sub-properties*
next_page_id	String: The default next page, in the form of another valid **page_id**, if no other logic changes the journey
change_mode_trigger_page_id	String: The page at which any journeys that split at this page will come back together

Question JSON Properties

```json
JSON
{
    "question_id": "tell-us-which-service-01",
    "document_order": 1,
    "instruction_text": "",
    "question": "<h1 class=\"govuk-heading-xl\">Tell us which service you want
                to give feedback about</h1>",
    "html_content": "<p class=\"govuk-body\">
                        Tell us anything you can about its name and where it is.
                        For example: </p>
                    <ul class=\"govuk-list govuk-list--bullet\">
                      <li>you might know the service by a different name from
                      our records</li>
                      <li>tell us the postcode, town or street</li>
                      <li>tell us if it's next to any shops or
                      landmarks</li>
                    </ul>
                    <p class=\"govuk-body\">We'll use what you tell us to find it.
                    We might need to contact you to make sure we've found the
                    right service.</p>",
    "short_question": "The service your feedback is about",
    "additional_text": "", currently unused
    "data_type": "string",
    "input_type": "textarea",
    "input_css": "govuk-!-width-two-thirds",
    "input_height": "",
    "show_when": {
        "question_id": "",
        "answer": "",
        "hide_parent_question_in_check_your_answers": true | false
        }
    "list_direction": "",
    "options": {
        "value": "",
        "text": ""
        },
    "validation": {...},
    "answer_logic": [{
```

```
            "value": "",
            "next_page_id": ""
            }],
        "answer": ""
}
```

The question properties are as follows:

Property	Description
question_id	String: The id for the question. This can take any form, so long as it is unique. The id is used by other objects in the JSON such as "**show_when**", " **answer_logic**" and "**required_if**" in order to enable navigation through the form.
document_order	Integer: This is an integer that controls what order the questions will be displayed in the word document that goes to NCSC.
question	String: Question text that is displayed on the page – the main title the user will read
html_content	String: This is custom html that sits under the question title – used to give the user additional information
short_question	String: The question as it appears on the review page
additional_text	String: Additional text below the main title – *currently unused in 7.3.0*
data_type	String: The type of data the answer contains: either **string** (most cases) or **text** (for a textarea)
input_type	String: The type of question: **textbox**, **optionlist**, or **textarea**
input_css	String: Css override for input textboxes or textareas – *only used to apply a 2/3 width style in 7.3.0*
input-height	Integer: For textareas, specify how many lines tall they should be
show_when	Conditional logic to determine when question is shown – s*ee below for sub-properties*
list_direction	String: Specified whether radio buttons are arranged horizontally or vertically – *currently unused in 7.3.0*
options	List of options for checkboxes or radio buttons – *see below for sub-properties*
validation	Logic specifying what must be completed for this question to be valid – s*ee below for sub-properties*
answer-logic	String: Changes the next page from the default value to the page specified here, based on what answer was selected. – s*ee below for sub-properties*
answer	String: Field to hold the answer the user submits. This affects the options in the **answer-logic** field, and all other answer-based routing logic.

`show_when` properties

```
JSON
"show_when":{
     "question_id": "tell-us-which-charity-01",
     "answer": "another charity",
```

```
        "hide_parent_question_in_check_your_answers": true | false
}
```

Property	Description
question_id	String: The question_id this question is dependent on
answer	String: If the question in question_id has this answer, this question will be shown on the page; otherwise it will hot be visible.
hide_parent_question_in_check_your_answers	Boolean: If this is true, the parent question (question_id) will not be visible on the Check Your Answers page.

`options` properties

```
JSON
"options":{
      "value": "Good experience",
      "text": "Good"
}
```

Property	Description
value	String: The value that this option passes to the application
text	String: The text displayed on the page for this option.

`answer_logic` properties

```
JSON
"answer_logic":{
      "value": "",
      "next_page_id": ""
}
```

Property	Description
value	String: The question answer that triggers this next_page_id to be the next page
Next_page_id	String: The page_id to be shown next if this answer value is given

`Validation` properties

```
JSON
"validation":{
      "required": {
            "is_required": true | false,
            "error_message": ""
            },
      "regex ": {
            "type": "regex",
```

```
                "regex": "email",
                "expression": "",
                "error_message": "Enter an email address in the correct format, like
                 name@example.com"
                },
        "min_length": {
                "type": "string",
                "min": 6,
                "error_message": "Email address must be at least 6 characters and no
                 more than 256 characters"
                },
        "max_length": {
                "type": "string",
                "max": 256,
                "threshold": "",
                "error_message": "Email address must be at least 6 characters and no
                 more than 256 characters"
                },
        "selected": {
                "min": "",
                "max": "",
                "error_message": ""
                },
        "required_if": {
                "inclusive_logic": "or",
                "parent_id": "contact-information-01",
                "linked_ids": "contact-information-02",
                "error_message": "You must enter either an email address or a
                 telephone number"
                },
        "is_errored ": true | false,
        "error_message ": "string"
}
```

The validation properties are as follows:

Property	Description
required → is_required	Boolean: This field sets whether the question must be answered for the page to be valid. True or false.
required → error_message	String:The error message displayed if the question is required and not answered
regex → type	String: Used if this question is validated against a regular expression. *Value is always "regex" as of 7.3.0*
Regex → regex	String: The name of the regular expression function to use. Regular expressions are defined in the code for GFC, and selected here. Available values: *name, phone, email, freetext, custom*
Regex → expression	String: If *custom* is selected for **regex→regex**, the string of characters in this field defines the regular expression. *(Not currently used as of 7.3.0)*
Regex → error_message	String: The error message displayed if the input does not match the regular expression.
min_length → type	String: if the input has a minimum length, this is how it is measured. Either "*words*" or "*string*" – Only "*string*" is used in GFC as of 7.3.0)
min_length → min	Integer: how small the **min**min_**length** is, in words or characters.
min_length → error_message	String: The error message displayed if the input is shorter than the minimum length allowed
max_length → type	String: If the input has a maxiumum length, this is how it is measured. Either "*words*" or "*string*" – Only "*string*" is used in GFC as of 7.3.0)
max_length → max	Integer: how large the **max_length** is, in words or characters.
max_length → threshold	Integer: the number of characters (or words) before the **max_length** that a count of words/characters remaining is displayed/
max_length → error_message	String: The error message displayed if the input is longer than the maximum length allowed.
selected → min	Integer: If a minimum number of options must be selected, it is defined by this value – *Not used as of GFC 7.3.0*
selected → max	Integer: If a maximum number of options must be selected, it is defined by this value – *Not used as of GFC 7.3.0*
selected → error_message	String: the error message displayed if the required number of options have not been selected.
required_if → inclusive_logic	String: This field sets the logic if questions are only required in some circumstances (e.g. question 1 or 2 on a page must be answered).
required_if → parent_id	String: The first question the **required_if→inclusive_logic** field relates to
required_if → linked_ids	String: Another question **the required_if→inclusive_logic** field relates to

required_if → error_message	String: The error message displayed if the **required_if→inclusive_logic** condition is not met.
is_errored	Boolean: **Initially always blank.** This is set to true by the code if the question input fails any of the validation options set out above.
error_message	String: **Initially always blank**. If the question input fails a validation option, the error message for that option is inserted here – this is then displayed on the page for the user.

Button JSON Properties

```json
{
     "button_text": "Continue",
     "button_type": "submit"
}
```

Property	Description
value	String: The text on the button – *only used for "Continue" as of 7.3.0*
Next_page_id	String: The action this button triggers – *only used for "submit" as on 7.3.0*

Previous Pages JSON Properties

```json
[
   {
     "question_id": "have-you-worked-there-01",
     "answer": "Yes",
     "page_id": "check-if-you-are-protected"
   },
   {
     "question_id": "have-you-worked-there-01",
     "answer": "No",
     "page_id": "have-you-worked-there"
   }
]
```

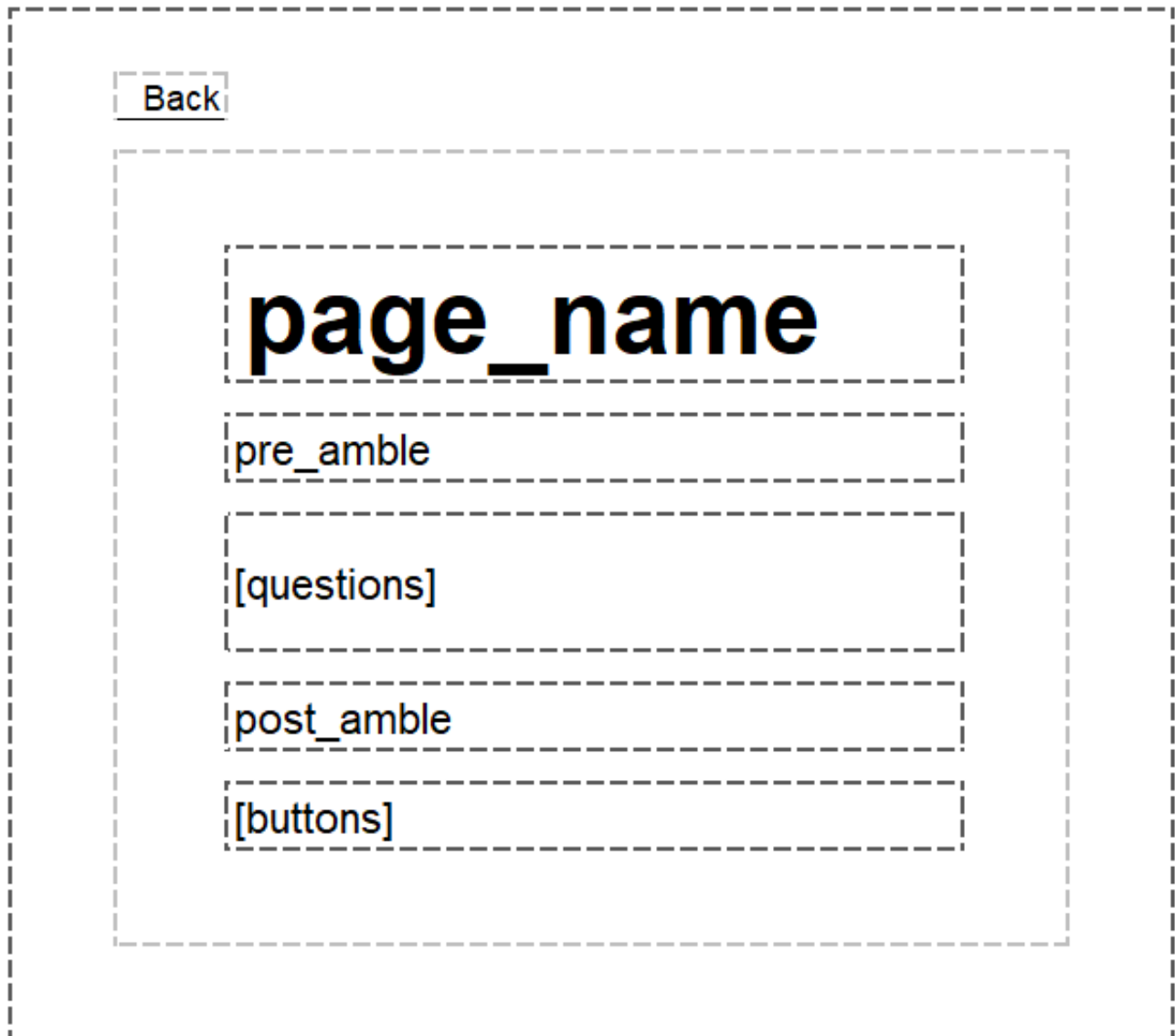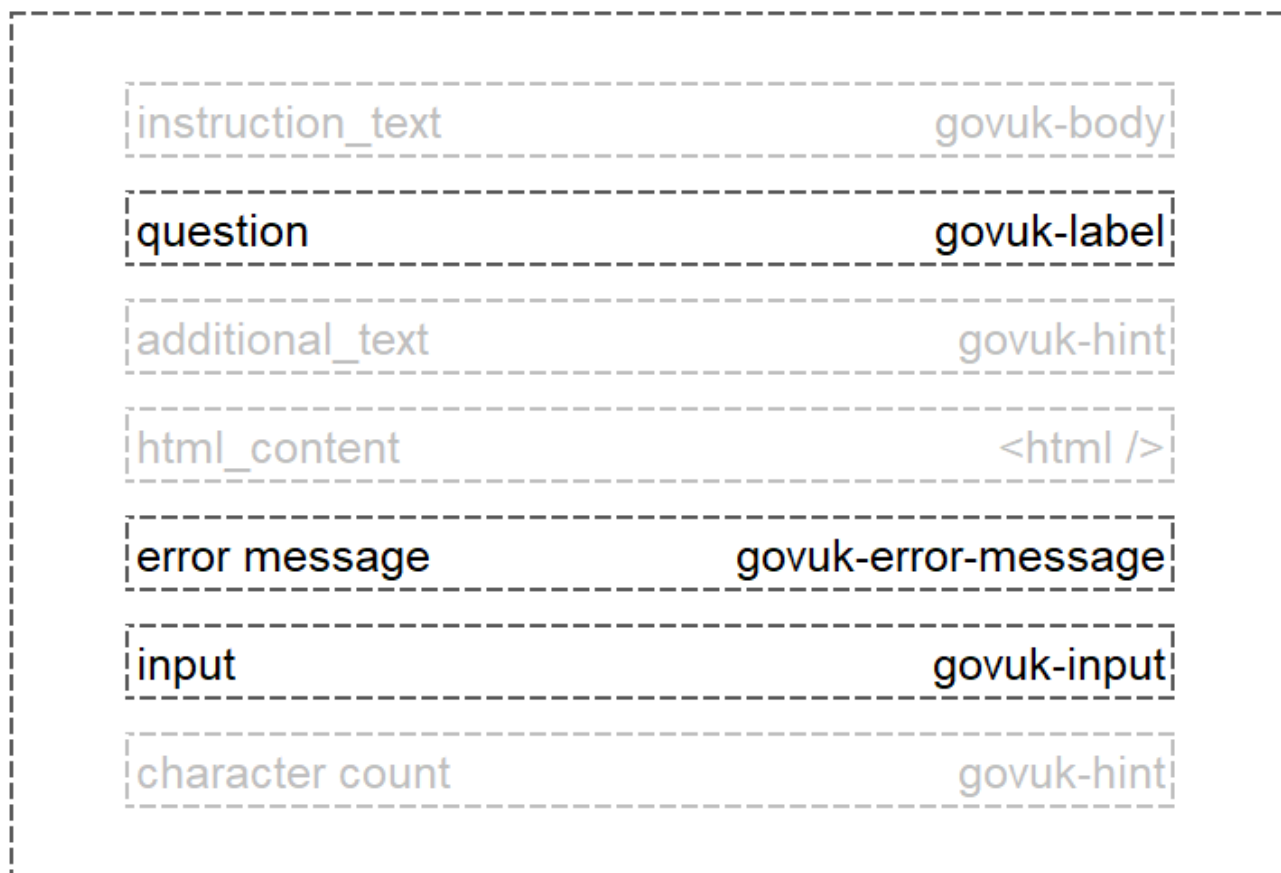| Property	Description
question_id	String: If the validity of a given previous page is dependent on whether a specific answer was given, this property specifies the relevant question
answer	String: If the validity of a given previous page is dependent on whether a specific answer was given, this property specifies the relevant answer
page_id	String: This property contains the page_id of the valid previous page; this is required. If it does not matter what answer was given, the other fields can be blank.

Fig 1 – Page Layout

Back

page_name

pre_amble

[questions]

post_amble

[buttons]

Fig 2 - Question Layout

instruction_text	govuk-body
question	**govuk-label**
additional_text	govuk-hint
html_content	\<html /\>
error message	**govuk-error-message**
input	**govuk-input**
character count	govuk-hint

Fig 3 – Questions Layout by Input Type

ITEM	CSS	TEXT BOX	TEXT AREA	RADIO LIST	SELECT LIST	CHECKBOX LIST
instruction_text	govuk-body	X	X			
question	govuk-label	X	X	X	X	X
additional_text	govuk-hint	X		X	X	X
html_content	*\<html /\>*		X	X	X	X
error message	govuk-error-message	X	X	X	X	X
textbox	govuk-input	X				
textarea	govuk-input		X			
character count	govuk-hint		X			
radio buttons	govuk-radios			X		
select list	govuk-select				X	