

NXT

Solution document

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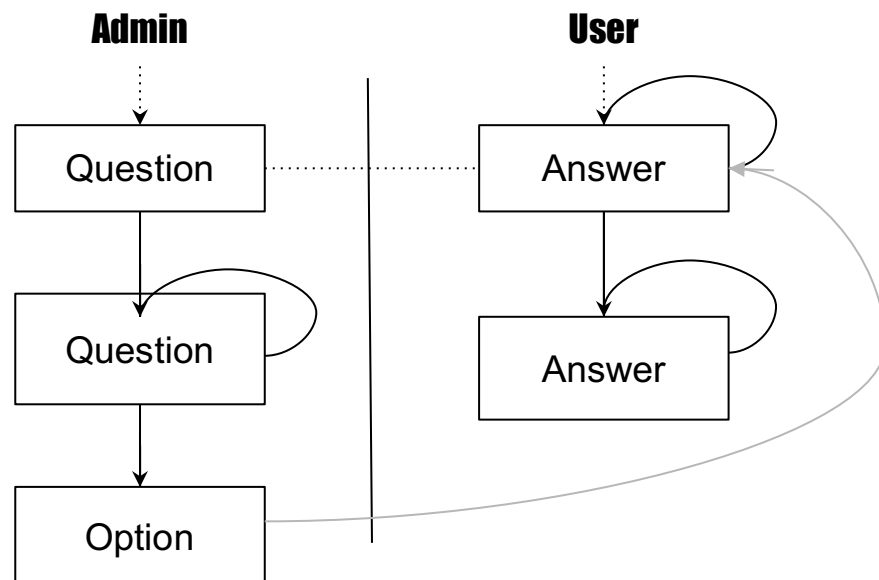
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Table of Contents

S.no	Contents	Page
1	Business Flow	3
1.1	Design Flow	3
1.1.1	Question Book	3
1.1.2	Question	4
1.1.3	Answer Book	5
2	Solution Description	6
2.1	Modules	6
2.1.1	Conditional	6
2.1.2	OptionOnly	7
2.1.3	Unconditional	8
3	Salesforce Implementation	10
3.1	Objects	10
3.1.1	Custom Objects	10
3.1.2	Custom Object Fields	10

1 Business Flow

1.1 Design Flow



1.1.1 Question Book

Question Book creates a book to add the Questions and its options to the admin's required type. The Application has a feature where the admin can create questions under various categories like simple, logical, evaluation which are usually used in the interviews, online exams, surveys and so on.

The Question Book acts as a book or a collection of questions. This feature lets the admin create several sections of questions for different groups to the admin's needs. The input field for the buttons next, back, submit, cancel are for the admin to change them to their required language. Admin can set up the first question and last question in the question book.

1.1.2 Question

After setting up a Question book, The admin has to create Questions, this is the part where the process gets interesting. The Versatility and flexibility of the

application allows the admin to create questions at their will. The admin can change the type and flow of questions.

The Question part of the NXT application lets the admin create questions under three common types,

- CONDITIONAL
- OPTION ONLY
- UNCONDITIONAL

These types have their own sub categories where the question and option changes to the type's requirement. The Application is flexible to an extent that it allows the admin to change type in the middle of setting up a question. Is optional and Is Title checkboxes allows admin to have access to set up whether the user can jump to the next question without answering the current question.

Admin can set which question to access after the first question. For instance, Let's consider Questions A, B and C. The admin can set up C to be the next question after A. This feature carves a way to logical Questions.

- **Options**

The Option feature let the admin set options under respective sub-type to their required limit. For instance, if the admin is setting a radio type question. The Option feature allows the admin to set order and value which is option number and the option. The flexibility of this feature lets the admin set up options to their requirement.

Option is accessible only if you select the first two types from the former. Options are not available in the unconditional type of questions as it is not necessary for that type of questions.

1.1.3 Answer Book

- **Answer**

When the whole process of creating a Question Book, setting questions and options under the admin's requirement is done. The question book will be ready with the question set and the admin can launch them with the start button.

The Question Book is launched with the first question and the next button is used to access next questions one by one, it's up to admin and user whether the questions answered or not.

- **Summary**

After the user answered or selected the answers, they will be stored in the answer book to the last question. Summary of all questions answered will be displayed once the user answers the last question. It lets the user verify all the answers before submission.

2 Solution Description

2.1 Modules

The Nxt application allows user to set different type of questions which are capsuled in three common question types,

- **CONDITIONAL**
 - Checkbox
 - Radio
 - Data
- **OPTION ONLY**
 - Dropdown
- **UNCONDITIONAL**
 - Text
 - Text Area
 - DateTime
 - File
 - Book

2.1.1 Conditional

Conditional Type is a Question may impact or change the flow of the questions asked or the question may depend or influenced from its previous

question ,i.e. A Conditional Question cannot emerge from nowhere in the middle without a flow.

The NXT application provides three type of question type which probably covers most of the conditional questions,which are

- Checkbox
- Radio
- Data

- **Checkbox**

A checkbox question contains options with square boxes which allows the user to select more than one option. Checkboxes are mostly used in surveys, forms, and logical questions and so on.

- **Radio**

Radio button questions are the same as checkbox questions but it will differ in the selection of options for a question. Unlike checkbox questions, users can select only one option for a question. Radio buttons are used in decision making questions, MCQ's etc.

- **Data**

Unlike Radio button or checkbox type questions, These data type questions don't need the admin to set up options, instead the admin can use the data from the system where the options are mostly data driven. This type of questions are mostly used picklist type questions where the option data are taken from the system.

2.1.2 Option only

In Option only questions the user can select only the options in the dropdown menu setted up by the admin.

- **Dropdown**

Option Only type questions consists of a Dropdown type where the user can't manually type the data in the input field and can select only the options from the dropdown menu provided by the admin.

2.1.3 Unconditional

Unconditional Type questions are direct questions which require direct inputs from the user. The questions don't impact other questions in the row and don't depend on any other questions. The Unconditional Types mostly are of Text, Datetime, or File upload type.

The Application provides Text for single line inputs, Text Area for more than one line, Datetime Question type, File type which lets you upload documents, images and so on, which are,

- Text
- Text Area
- DateTime
- File
- Book

- **Text**

Text type Questions are for short Text type inputs for about one or two lines. These are direct Questions which require manual answers from the user.

- **Text Area**

Textarea type Questions are for large Text type inputs for about almost a paragraph. These are also direct Questions which require manual answers from the user. Text area type is same as text type but for inputs more than 100 words.

- **DateTime**

DateTime type questions allow the admin to set up Datetime questions which lets the user to provide input in date/time format.

- **File**

File type lets the user upload files and images of certain file extensions such as PDF, HIEC, HIEF, JPG, JPEG, PNG.

- **Book**

Book type Question allows the admin to create a certain number of different questions in a single page which leaves the user to answer them in a single page. This type mostly used to answer a form and other similar questions.

3 Salesforce Implementation

3.1 Objects

The NXT application is built with specific requirements, so the application rely on Custom objects and they are,

3.1.1 Custom Objects

LABEL	API NAME	DESCRIPTION
Question Book	Question_Book__c	Collection on Questions
Question	Question__c	Questions defined in the Question Book
Option	Option__c	Options available for the question
Answer Book	Answer_Book__c	Answers for the Questions
Answer	Answer__c	Answer for the Question Identified in the Logic Flow

3.1.2 Custom Object Fields

Question Book

LABEL	API NAME	DATA TYPE
Back	Back__c	Text(20)
Action	Action__c	LongTextArea
Back Tracking ID	Back_Tracking_ID__c	Text(100)
Cancel	Cancel__c	Text(20)
Cancel Tracking ID	Cancel_Tracking_ID__c	Text(100)
Category	Category__c	Picklist
Created By	CreatedById	Lookup(User)
Edit	Edit__c	Text(20)
First Question	First_Question__c	Lookup(Question)
isShengel	isShengel__c	Checkbox
Last Modified By	LastModifiedById	Lookup(User)

Last Question	Last_Question__c	Lookup(Question)
Next	Next__c	Text(20)
Parent Booklet QB	Parent_Booklet_QB__c	Lookup(Question Book)
Next Tracking ID	Next_Tracking_ID__c	Text(100)
Owner	OwnerId	Lookup(User,Group)
Possibilities	Possibilities__c	LongTextArea
Progress Bar	Progress_Bar__c	Checkbox
Question Book Name	Name	Auto Number
Status	Status__c	Picklist
Submit	Submit__c	Text(20)
Submit Tracking ID	Submit_Tracking_ID__c	Text(100)
Summary Text	Summary_Text__c	Long Text Area(1000)
Title	Title__c	Text(255)
Total # of Questions	Total_Questions__c	Roll-Up Summary (COUNT Question)

Question

LABEL	API NAME	DATA TYPE
Additional_Text	Additional_Rich__c	Rich Text Area(32768)
Allowed File Extensions	Allowed_File_Extensions__c	Picklist (Multi-Select)
Back	Back__c	Formula (Text)
Cancel	Cancel__c	Formula (Text)
Created By	CreatedById	Lookup(User)
Date Text	Date_Text__c	Text(25)
Edit	Edit__c	Text
Error Message	Error_Message__c	LongTextArea
Group	Group__c	Text(50)
Is Date Backward	Is_Date_Backward__c	Checkbox
Is Date Forward	Is_Date_Forward__c	Checkbox
Is Optional	Is_Optional__c	Checkbox

Is Title	Is_Title__c	Checkbox
Last Modified By	LastModifiedById	Lookup(User)
next	next__c	Formula (Text)
Next Question	Next_Question__c	Lookup(Question)
Question	Question__c	Long Text Area(20000)
Question Book	Question_Book__c	Master-Detail(Question Book)
Question #	Question_No__c	Number
Question Parent	Question_Parent__c	Lookup(Questions)
Question Text	Question_Text__c	Html
Reference Field	Reference_Field__c	TextArea
Size	Size__c	Number
Sub Text	Sub_Text__c	Long Text Area(32768)
Submit	Submit__c	Text
SubTitle	SubTitle__c	LongTextArea

Time Text	Time_Text__c	Text(25)
Title	Title__c	LongTextArea
Tracking ID	Tracking_ID__c	Text(100)
Type	Type__c	Picklist
24 Hours	X24_Hours__c	Checkbox

Option

LABEL	API NAME	DATA TYPE
Created By	CreatedById	Lookup(User)
Last Modified By	LastModifiedById	Lookup(User)
Next Question	Next_Question__c	Lookup(Question)
Option	Name	Auto Number
Order	Order__c	Number(3, 0)
Question	Question__c	Master-Detail(Question)
Tracking ID	Tracking_ID__c	Text(100)
Value	Value__c	Text(200)

Answer Book

LABEL	API NAME	DATA TYPE
Answer Book Name	Name	Auto Number
Created By	CreatedById	Lookup(User)
Last Modified By	LastModifiedById	Lookup(User)
Question Book	Question_Book__c	Master-Detail(Question Book)
Source URL	Source_URL__c	Text(255)
Status	Status__c	Picklist
Total Answers	Total_Answers__c	Roll-Up Summary (COUNT Answer)

Answer

LABEL	API NAME	DATA TYPE
Answer ID	Name	Auto Number
Answer_Long	Answer_Long__c	Area(32768)
Created By	CreatedById	Lookup(User)

Answer Book	Answer_Book__c	Master-Detail(Answer Book)
Last Modified By	Last Modified By	Lookup(User)
Number	Number__c	Number(3, 0)
Question Ref	Question_Ref__c	Lookup(Question)
Question_Rich_Text__c	Question_Rich_Text__c	Html
Question Text	Question_Text__c	Long Text Area(20000)
Question Type	Question_Type__c	Text(20)

Question_Mapping__mdt

LABEL	API NAME	DATA TYPE
Question Type	Question_Type__c	Picklist
Supported Type	Supported_Type__c	Text(100)

Static Resources

NxtAppUI