

Intermediate Designer 1:
Special Qs, Validation,
and C#

Overview

- Special question types (GPS, barcode, picture)
- Data validation
- Basic C# syntax for creating validation and enablement conditions

Learning Objectives

- Know what validation conditions and messages are
- Apply basic C# syntax for creating validation and enablement conditions

Special question types

Special question types

- 3 types for now:
 - GPS
 - Barcode
 - Picture

Special question types: GPS

Designer

Question Type

 Geo Location 




Take GPS coordinate

Tap to record GPS



Take GPS coordinate



12.4880962, 41.8823389

Tap to record GPS


Interviewer

Special question types: Barcode

Question Type

 QR Barcode 


Designer

Barcode of the gift given to the household 



Interviewer



Barcode of the gift given to the household
9781464801334 

Special question types: Photo

Designer

Question type

 Picture 

Interviewer

Photo graph product

Tap to take a photo

Photo graph product



Tap to take a photo

Data validation

Data validation: description

- Data validation expressions are to:
 - Confirm responses are consistent, and/or responses meet realistic expectations
 - Examples
 - A man cannot be pregnant. **Consistent w/ gender, enabled when household member is male.*
 - No one can be more than 110 years old, and younger than 0. **Realistic expectations.*
- These expressions are written in C# in the 'Validation condition field.

Data validation: description

- What happens when validation is violated?
- A warning message is shown to enumerator

Data validation: description

MAIN RESPONDENT (ROSTER) / HOUSEHOLD MEMBER / BASICS /

Question type: Numeric Variable name(?)

Variable label(?):

Question text:

Integer Roster upper bound:

ADD INTERVIEWER INSTRUCTION

Enabling condition (?):

Validation condition (?):

Error message (?):

Mandatory question Question scope:

SAVE CANCEL DELETE CLONE MOVE TO ▾

C#

Message enumerator
sees if condition violated

Data validation: description

HOLDING QUESTIONNAIRE /
HOUSEHOLD MEMBER ROSTER: DEMOGRAPHIC CHARACTERISTICS AND
EDUCATION /

☰ Household member roster - Joe ☰

Joe is

Male

Female

How old is Joe?

INSTRUCTION
Please insert age in completed years

110 ✖

ANSWER IS INVALID
Please check that age is inserted correctly

Value that violates
condition

Message enumerator
sees if condition violated

Basic C# syntax for creating validation and enablement conditions

Data validation: Building expressions

- How?
 - Connect a variable name with values or another variable using logical operators.
 - Connect expression creating multiple conditions using “||” or “&&”
- Example
 - age > 18 || age < 65

Data validation: Operators

Operator	Description
>	Greater than
<	Less than
==	Equal too
!=	Not equal to
<=	Less than or equal to
>=	Greater than or equal to
&&	and
	or
<code>variableName==1 variableName==2</code>	(single select) contains in
<code>new decimal?[] {1,2}.Contains(variableName)</code>	(single select) contains in
<code>variableName.Contains(1)</code>	(multiselect) single values
<code>variableName.Intersect(new decimal[] {1, 3}).Any()</code>	(multiselect) single values, multi values

**Operators
depend on
type of
UNLEASH
QUESTION!**

Data Validation examples

Question type

12 Numeric 

Variable name(?)

 M3_Q6

Variable label(?)

Age of the holder

Question text

How old are you?

Integer

Data Validation examples

- Validation condition, we want the response to be less than 100 and positive.

● Validation condition 1 (?) ✕

`M3_Q6 < 100`

Error message (?)

Check again if you have inserted age correctly

● Validation condition 1 (?) ✕

`(M3_Q6 < 100) && (M3_Q6 > (-1))`

Error message (?)

Please verify the entered age of respondent is correct.

Enablement and validation

Question type

<u>12</u>	Numeric	▼
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Variable name(?)

⌘ M3_Q22

Variable label(?)

Age of the manager

Question text

How old is %M3_Q19%

Integer

KEY CONCEPT AHEAD

Enablement and validation

- **Enable** only if there is a manager
- **Validate** that value is less one 100 and positive.

Enablement and validation

Question type

Categorical: Single-select

Variable name(?)

M3_Q18

Variable label(?)

Question text

Does the holding have a manager?

1	Yes	<input type="button" value="x"/>
2	No, the holder is the manager	<input type="button" value="x"/>

[ADD OPTION](#)

[SHOW STRINGS](#)

Question type

Numeric

Variable name(?)

M3_Q22

Variable label(?)

Age of the manager

Question text

How old is %M3_Q19%

Integer

Enablement and validation

HOLDING QUESTIONNAIRE / HOLDING OVERVIEW /

Question type

Numeric ▼

Variable name(?)

Variable label(?)

Question text

Integer

Use 1000 separator (?)

Instruction (?) Hide instruction (?)

✖

Enabling condition (?) Hide if disabled (?)

Validation condition 1 (?) ✖

Error message (?)

Enablement: Another Example

HOLDING QUESTIONNAIRE / LABOR OVERVIEW /

Question type

 Categorical: Multi-select 

Variable name(?)






 M5_Q9

Variable label(?)

Impact on farming activity

Question text

How did the labour shortage affect your farming activity?

1	Reduce productivity	
2	Limit cultivated land	
3	Reduce product quality	
4	Reduce marketable surplus	
5	Other	

ADD OPTION SHOW STRINGS

Data validation: Operators

Operator	Description
>	Greater than
<	Less than
==	Equal too
!=	Not equal to
<=	Less than or equal to
>=	Greater than or equal to
&&	and
	or
<code>variableName==1 variableName==2</code>	(single select) contains in
<code>new decimal?[] {1,2}.Contains(variableName)</code>	(single select) contains in
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<code>variableName.Intersect(new decimal[] {1, 3}).Any()</code>	(multiselect) single values, multi values

Enablement and validation

Question text

If other, please specify

Pattern (?)

[ADD INTERVIEWER INSTRUCTION](#)

Enabling condition (?) Hide if disabled (?)

M5_Q9.Contains(5)

[ADD NEW VALIDATION RULE](#)

Questions?