Development and use of online questionnaires with the open source software QTAFI

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QTAFI – Questions, Tables and Figures

Online QTAFI – an open source software for design and administration of an online questionnaire / online survey as well as data analysis

- Developed by Harald Schomburg
- Technically implemented by Martin Guist

Development of QTAFI Software

■ International Centre for Higher Education Research (INCHER-Kassel), Germany

❖ Development since 2003 → Version 1
❖ 2006 – 2009 → Version 2
❖ Since 2009 → Version 3

Version 3 – especially built for the demands of graduate survey cooperation project in Germany (KOAB)

- Large scale of combined surveys
- Automatable building of questionnaires

■ **Year 2015 → new version of Online QTAFI 3**

Martin Guist (eoda, Germany) &

European Training Foundation (ETF, Italy)

↓

Tracer studies in Palestine, Macedonia & Kyrgyzstan

■ **Main objectives of Online-QTAFI development:**

✓ *Free open source programme* for developing countries with limited financial resources to conduct online surveys

✓ *To invest professional expertise into the software:* e.g. creation of online questionnaires, layout, data analysis

✓ *Simple creation and management of online questionnaires/surveys*

Survey:

- ✓ Creation and management of online surveys
- ✓ Unlimited number of surveys, participants
- ✓ Open vs closed survey → PINs or URL creation for the purpose of authentication
- ✓ Saved survey, continue later
- ✓ Response rate documentation of the survey

Questionnaire:

- ✓ Creation of an online questionnaire
- ✓ Different question types and filter commands
- ✓ Layout of the questionnaire
- ✓ Multi-lingual software menu/questionnaires
- ✓ Documentation of the questionnaire including variable names and value labels (codebook)
- ✓ Online and print preview of questionnaire

Data:

- ✓ Data analysis within QTAFI – frequency, crosstabs, bar charts
- ✓ Export of analysed data/tables, bar charts into Word-Document & Excel
- ✓ Download of (raw) data for further analysis if necessary

■**Two ways of creating an online questionnaire:**

✓ Per mouse-click on the web-form within the questionnaire panel

✓ Directly within the codebook by means of XML syntax (extensible markup language)

QTAFI - Design online questionnaire

■ QTAFI questionnaire panel:

| Options |
| Export |
| Import |
| Printable |
| Append page |

- Page 1
- Page 2
- Head
- Foot

- Questions
- Advanced components
- Library
- Trash

login

ii

Page 1

Login

Page 2

Questionnaire structure panel

Preview screen

Admin field

QTAFI question editor

Question editor / Type: CV

| Question | Filter |

Id _____ ☐ Protected

Subject _____

Number _____

Text

Subline

Layout Radioboxes ▼

Variable _____

Categories | Key | Label |

✏

OK   Cancel

■ Design questionnaire with XML Syntax

General structure of a single choice question
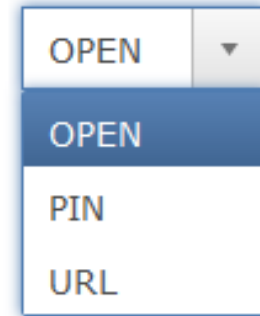
```xml
<CV id="V032">
  <subject>Gender</subject>
  <text>What is your gender?</text>
  <number>J1</number>
  <layout inputStyle="radio"/>
  <value key="1">Male</value>
  <value key="2">Female</value>
  <variable name="V032"/>
</CV>
```
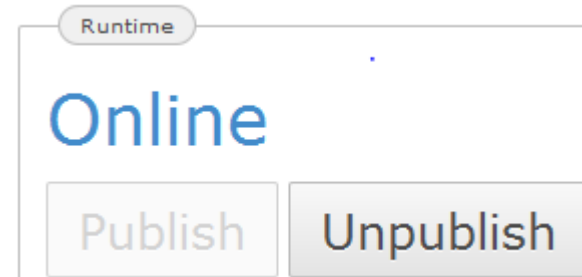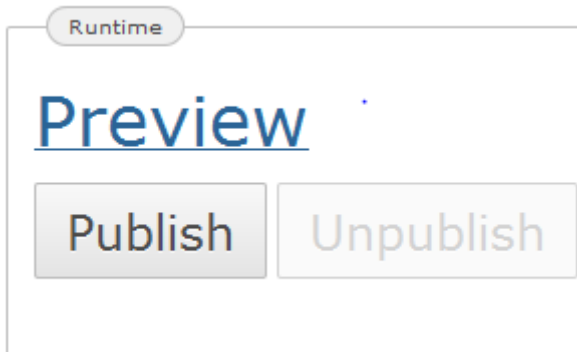
Main menu of the software:

■ *Create an online questionnaire*

■ *Set the authentication mode*

■ *Create PINs in case of closed survey*

■ *Publish and upload an online questionnaire*

Authentication

OPEN ▼

OPEN

PIN

URL

Runtime

Preview

Publish | Unpublish

→

Runtime

Online

Publish | Unpublish

QTAFI - Data Analysis

■ QTAFI Report panel for data analysis

Data analysis panel	Questionnaire structure panel	Preview screen
Export Word	▸ Page 1	
Export Excel	▸ Page 2	
Printable	▸ Page 3	
	▸ Page 4	
	▸ Page 5	
	▸ Page 6	
	▸ Head	
	▸ Foot	

QTAFI - Data Analysis

■ QTAFI Report panel for data analysis

Page 1

Page 2

HL - VA

SC - VA1

DATE - VA3

SC - VA2

VA2 - Which qualification did you achieve at the VET/HE institution? Percent;

Certificate	27,3%
Diploma	54,5%
Other (please specify):	18,2%
Missing cases	21
Total answers	11

QTAFI - Data Analysis - Report properties

QTAFI - Data Analysis

■ QTAFI Report panel for data analysis

VA2 - Which qualification did you achieve at the VET/HE institution?
Percent;

Missing cases 21
Total answers 11

Documentation of the Software
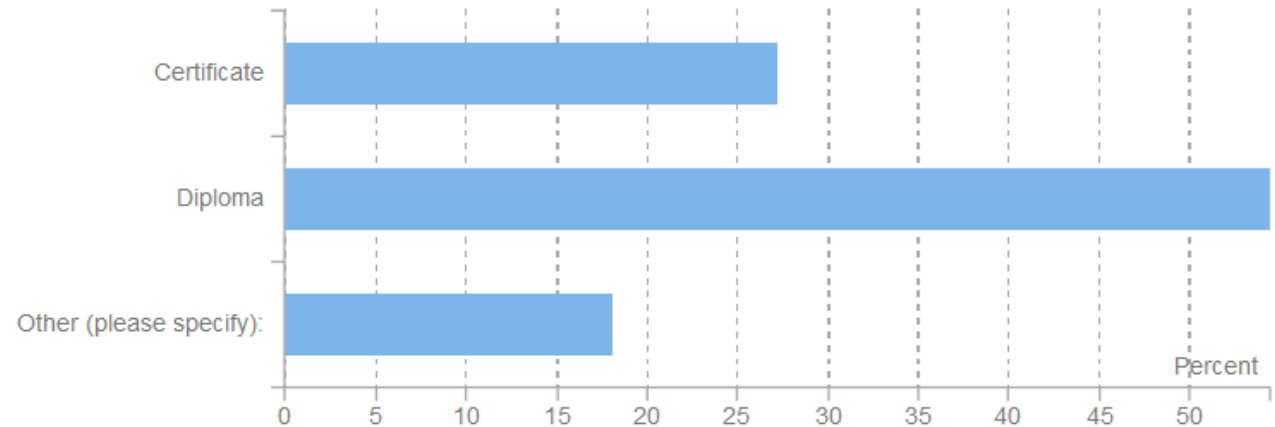
More information:

QTAFI Handbook

Thank you for your attention!