QCAT - Task #1805

User Story # 1114 (Accepted): Polygone erfassen

Creating and editing polygons on web map

27 Feb 2018 09:58 - Kurt Gerber

Status:	Accepted	**Start date:**	27 Feb 2018
Priority:	Normal	**Due date:**	
Assignee:	Lukas Vonlanthen	**% Done:**	0%
Category:		**Estimated time:**	52.00 hours
Target version:	QCAT Backlog	**Spent time:**	0.00 hour
Resolution:			

Description
Creating and editing polygons on web map

History

#1 - 27 Feb 2018 09:59 - Kurt Gerber

- Target version changed from GIZ Proposal 2017 to Carbon Benefit

#2 - 27 Feb 2018 09:59 - Kurt Gerber

- Assignee set to Lukas Vonlanthen

Da haben wir noch eine Zeitschätzung versprochen...

#3 - 28 Feb 2018 11:47 - Lukas Vonlanthen

- Estimated time set to 52.00 h

Summary of tasks

Extend data model

There is already a DB field for geometry (questionnaire_questionnaire.geom, used to store point data). Probably it makes sense to use a different DB field (e.g. questionnaire_questionnaire.poly_geom) to store polygons? (Bonus: If only polygons were submitted and no point data, then calculate centroid point out of polygon?)

Estimation: 2h

Configuration

Currently, the configuration (e.g. technologies.json) knows which question is used for point data by having attribute "is_geometry": true. This needs to be updated (extended by "has_polygons": true?). Will all questionnaire have polygons? (see open questions). Write helper functions to access this question and its data

Estimation: 8h

Store data

Correctly store new/updated polygons after form submission (as GeometryCollection, similar to points)

Estimation: 4h

Map in details (1)

Map (static) in questionnaire details: A static preview image is created to show the location relative to the country. It probably does not make sense to show polygons there as they are too small.

Estimation: -

Map in details (2)

Map (dynamic) in questionnaire details:

- pass geometry data of questionnaire to view
- extend existing map toolbar to toggle display of polygons (visible by default?)
- adapt "zoom to all points on the map" to zoom to entire extent of map data (points and polygons)
- show count of polygons

Estimation: 8h

Map in form

- allow drawing and editing of polygons (add new layer)
- extend existing map toolbar to toggle draw/edit-mode
- button to delete all polygons

Estimation: 16h

API

No geometries (neither point nor polygon) visible in list. In details, include polygon (as geojson)

Estimation: 6h

Tests

Estimation: 8h

Tech considerations

- Caution: OpenLayers v3.16.0 is used (current version: v4.6.4). Probably hard to find documentation, examples and scripts to facilitate drawing of polygons. Upgrading OpenLayers or even switch other mapping library (e.g. LeafletJS) would be **highly recommended**, also for long-term sustainability of the application, but is expensive as existing code (e.g. functionality to add points) needs to be rewritten. (rough estimation: + 30-40h)

Open questions

- Draw polygons for all types of questionnaires (technologies, approaches, cca, ...)?

#4 - 19 Sep 2018 10:55 - Kurt Gerber

- Priority changed from High to Normal

#5 - 19 Sep 2018 10:55 - Kurt Gerber

- Target version changed from Carbon Benefit to QCAT Backlog