

Semantic Web Services - Semester Project (Kick-off Task)

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1 PROJECT DESCRIPTION

The project goal is to build a JSON-LD generator as a form based tool similar to the FOAF-o-matic tool. To reach this the latest JSON-LD syntax described in <https://www.w3.org/TR/json-ld/> will be used. The generator should generate the <http://schema.org> types and their properties which are listed in chapter 2. All of them are in the context of a touristic service.

There are already similar generators like <https://www.jamesdflynn.com/development/json-ld-markup-generator/>, which will help to get an idea for the final implementation. More implementation details are mentioned in chapter 3.

2 SELECTED SCHEMA.ORG TYPES AND PROPERTIES

The following types with their properties can be generated with the JSON-LD generator:

Event The Event type is necessary in the context of tourism, because there are a lot of events like festivals which can be part of a touristic service. It combines locations and times.

Place Places define where a touristic service takes place. They are also required for the event type. The two most important more specific places for this project are LocalBusiness and TouristAttraction.

Review Reviews are necessary to evaluate and to choose a touristic service.

Offer Offers are entities “to transfer some rights to an item or to provide a service”, so they fit perfectly for the project.

Person Persons utilise touristic services.

Organization Organizations offer touristic services. One important more specific type is also the LocalBusiness type.

3 IMPLEMENTATION DETAILS

The current project state will be managed via Git on GitHub (https://github.com/YarnSeemannsgarn/University_Innsbruck-Semantic_Web_Services-Semester_Project).

The form based tool will be a website, so at least the languages HTML and JavaScript will be used to create the generator. Additional languages, frameworks etc. may be used depending on the state of the project.