**Introduction**

- History is a public issue and shapes the identity of social groups and communities.
- Historical knowledge and practice is not limited to academic settings.
- Gunter Demnig’s art project *Stolpersteine* is a public cultural artifact.
- In practice of public history, we present *Stolperwege* with the aim to deepen public knowledge of the Holocaust and integrate different data sources (public, archive).
- Modelling biographies of victims of Nazism and creating historical environments to create different views of the past:
  - Synchronizes present-day maps with their historical counterparts.
  - Interactive 3D animations of destroyed or not accessible buildings.

**General idea**

- Extending *Stolpersteine* to a higher level and use it as a starting point.
- Developing an app, called *Stolperwege*, for ubiquitous modeling of historical processes.
- Modelling biographies of victims of Nazism and integrating different data sources.

**Stolperwege App**

- Multiple view on biographies. Specific:
  - Present-day and historical maps
  - Interactive 3D / VR animations
  - Distributed components for flexible and redundant use.
- Resource management and data protection with the ResourceManager (Gleim, Mehler, and Ernst 2012) and the AuthorityManager.
- Used free libraries only, e.g., OpenStreetMap
- RESTful backend to communicate with the App.
- Database model based on UIMA type system.

**Overview**

**Data model**

<table>
<thead>
<tr>
<th>StolperwegElement</th>
<th>Context</th>
</tr>
</thead>
<tbody>
<tr>
<td>alias</td>
<td>take-thing</td>
</tr>
<tr>
<td>Argument</td>
<td>TermConnector</td>
</tr>
<tr>
<td>DiscourseReferent</td>
<td>Person, Image, Position, Place, Event</td>
</tr>
</tbody>
</table>

Connectors and roles by (Allen 1983) and (Palmer, Dildea, and Xue 2010).

**Outlook**

- Future work aims at instantiating *Stolperwege* by means of biographical information about persons for which *Stolpersteine* exist in Frankfurt am Main and to make it open source.
- Extend the functions for virtual and augmented-reality requirements.

**References**


Goethe University Frankfurt

Alexander Mehler, Giuseppe Abrami, Steffen Bruendel, Lisa Felder, Thomas Ostertag, Christian Speikermann

Goethe University Frankfurt | Text Technology Lab | FG1Z

Prague (Czech Republic)

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