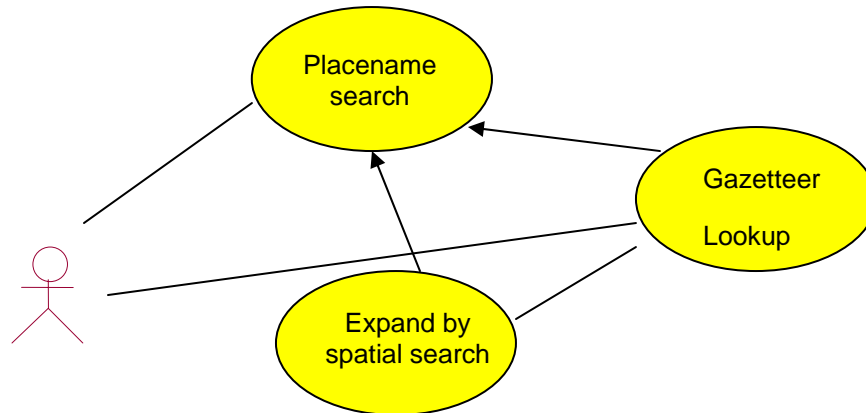


Use case – Historical research

Part 1: UML use case diagram for historical placename researcher.



Part 2: Narrative explanation.

A placenames researcher is investigating origins and meanings of placenames for scholarly purposes. User accesses reference site and types in a placename (current or historical.). User is presented with possible candidate matches from which to choose or can expand the search to include a wider range of feature types than initial search. If latter option, a request to the gazetteer uses the spatial footprint of the selected feature to conduct a spatial containment and/or intersection search on all features. This produces an 'expanded' result list with associated metadata detailing feature details such as pronunciation, known variants, operative date ranges etc.

Part 3: Detailed, structured description.

Use Case Description	
Name	Historical research
Priority	medium
Description	An academic researching the origins and meanings of placenames requires a definitive names list, preferably with historical and contemporary placenames.
Pre-condition	<p>A reference web based application connecting to authority list(s) of placenames .</p> <p>An authoritative placenames gazetteer(s).</p> <p>Ability to use service at minimal/no cost with licensing aspects clearly understood.</p>
Flow of Events – Basic Path	
Step 1.	User accesses client website and submits a search term (placename). Possibly constrained by feature type. Search type parameters also known (e.g strict, wildcard, partial etc)
Step 2.	Gazetteer search returns candidate list.
Step 3 (optional).	Candidate placenames are re-queried with an 'expand' option which will use the features spatial footprint fro search (i.e an explicitly spatial search).
Step 4.	Results delivered back to client for further processing
Flow of Events – Alternative Paths	
Step 3a.	No placename expansion required.
Post-condition	User finds (and agrees) with information associated with query terms).
Data source: <Name> [repeat per data source]	
Description	GeoCrossWalk gazetteer infrastructure
Data provider	GeoCrossWalk – EDINA service
Geographic scope	GB
Thematic scope	INSPIRE geographical names
Scale, resolution	c. 1:50,000
Delivery	Electronic (via web services)
Documentation	http://www.geoxwalk.ac.uk/geoparser.html

Use Case Description	
User requirements derived from use case	
Content, Data, that is:	Clearly defined interfaces with charging policy and licensing regime clearly shown. Well documented data specification with maintained metadata. Historical data essential.
<input type="checkbox"/> Relevant (minimal) completeness	Ideally large scale with variant and importantly historical references. Global coverage would be ideal. Minimally, sufficient to deal with the resources being queried – in GB context that would be GB coverage with full exonym/variant support indicating temporal coverage.
<input type="checkbox"/> Name categories	Feature types are not a prerequisite but may assist in term expansion.
<input type="checkbox"/> Coverage	For UK HFE , sub optimally GB.
<input type="checkbox"/> Currency	Currency will be less critical than historical coverage although a contemporary name may well be the preferred (sole) entry point.
<input type="checkbox"/> Spatial accuracy	Application dependent but no less than 1:50K tolerance. Dependent on research focus.
<input type="checkbox"/> Additional Info	Variant names, historical versions and multiple spatial footprints and feature types would be ideal. Hierarchical relationships not essential but could be useful for disambiguation taks as qualifiers.
Functionality	<in the form: input → output, for instance: place names → coordinate pairs (ideally full geometry) place names → feature type(s) place names → variant names place names → spatial footprint → place names
User Interface	n/a
Service Integration	Protocol agnostic but ADL or OGC or REST preferred End points available 24/7 Ability to perform multiple iterative searches. Downloadable/offline metadata a bonus.

Misc Comments

<http://www.archaeology.co.uk/directory/viewsoc.asp?cat=2&soc=115>