Mid-Term Project Proposal

Abstract

One of the most rapidly expanding sectors of the social media economy is the realm of travel influencers. These individuals earn their livelihood by journeying to various remote and exotic locations, capturing their experiences on film, and subsequently editing and sharing this content on social media platforms. This trend highlights the growing demand for authentic travel content and the importance of meticulous research and documentation.

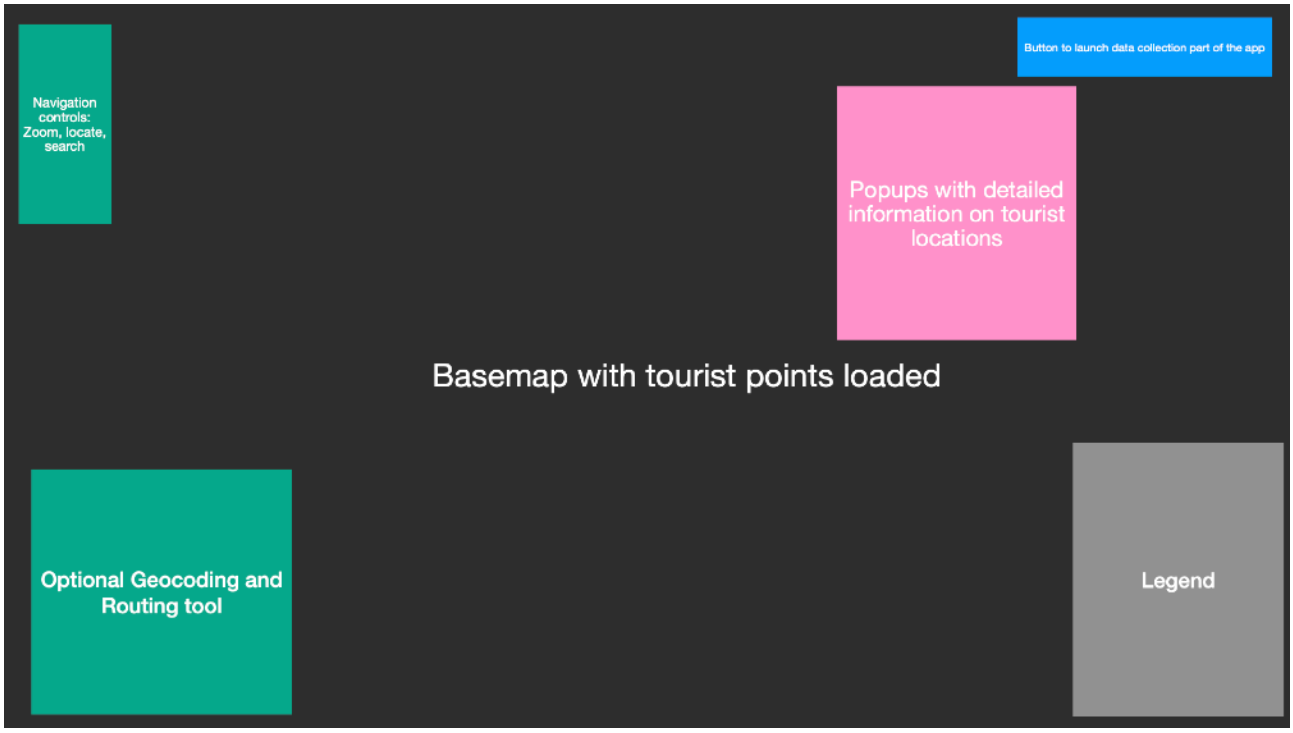
Travel influencers require a robust and reliable platform that enables them to efficiently plan their trips, explore potential destinations, and document their experiences comprehensively. To address this need, I propose the development of a sophisticated, multi-page website that integrates advanced mapping and data collection functionalities. This website will primarily utilize OpenStreetMap, a renowned and comprehensive mapping resource, to provide detailed and up-to-date information on various tourist locations.

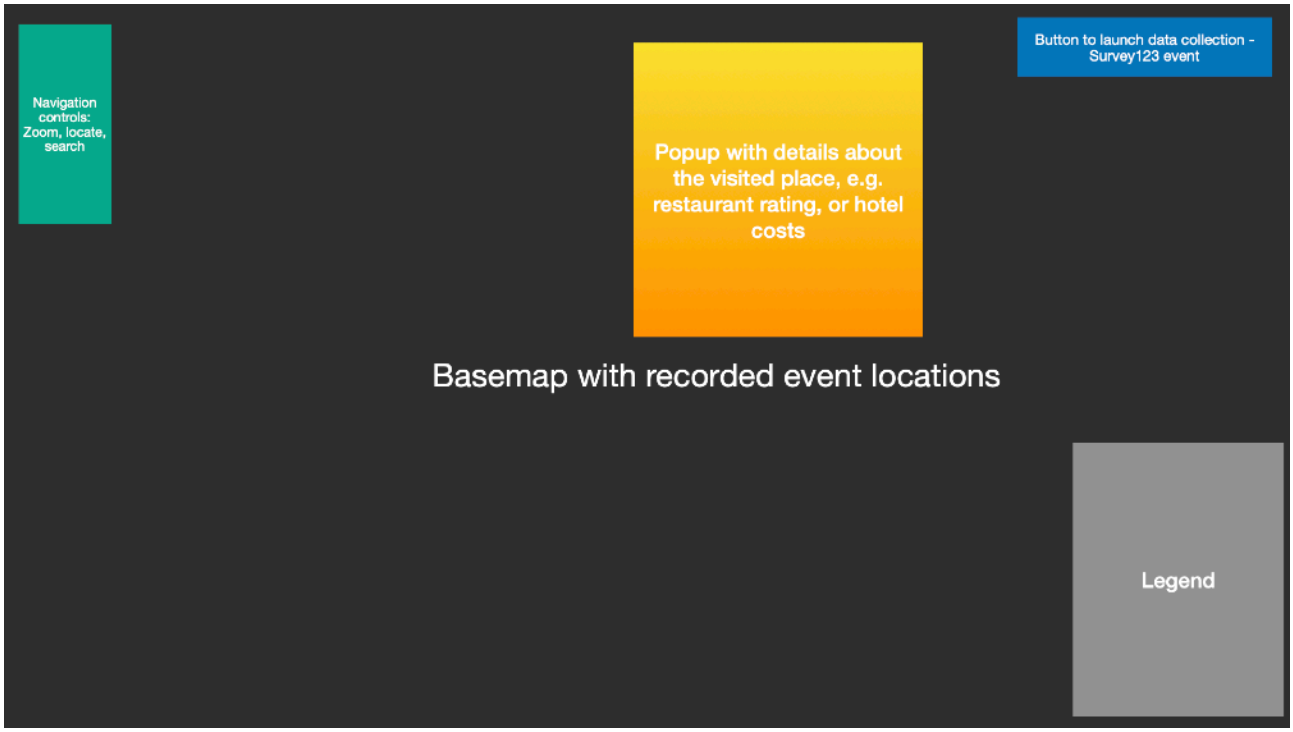
The core feature of the proposed platform will be an interactive map that allows users to seamlessly research and select potential travel destinations. By leveraging the extensive data available through OpenStreetMap, the platform will offer influencers a rich database of tourist attractions, points of interest, and off-the-beaten-path locales. This will empower users to discover unique and engaging destinations that align with their content creation goals.

In addition to the mapping capabilities, the website will incorporate Survey123, an advanced data collection tool. This integration will enable influencers to record detailed observations and insights during their travels, which can be invaluable during the content creation and editing process. Survey123's user-friendly interface will facilitate the efficient capture of multimedia notes, geotagged photos, and other relevant data, ensuring that influencers have all the necessary information at their fingertips.

Overall, this multi-functional platform aims to streamline the travel planning and documentation process for social media influencers, enhancing their ability to produce high-quality, engaging content for their audiences. By combining the powerful mapping features of OpenStreetMap with the comprehensive data collection capabilities of Survey123, the proposed website will serve as an indispensable tool for the modern travel influencer.

Wireframe


Navigation controls: Zoom, locate, search
Button to launch data collection part of the app
Popups with detailed information on tourist locations
Basemap with tourist points loaded
Optional Geocoding and Routing tool
Legend


Navigation controls: Zoom, locate, search
Button to launch data collection - Survey123 event
Popup with details about the visited place, e.g. restaurant rating, or hotel costs
Basemap with recorded event locations
Legend

Data Table

Name	URL	Description
OpenStreetMap Tourist Attractions for Africa	https://uw-mad.maps.arcgis.com/home/item.html?id=d00cdd36743a4a2888d760f8dbd71ce5	This feature layer provides access to OpenStreetMap (OSM) tourist attraction point data for Africa, which is updated every 5 minutes with the latest edits. This hosted feature layer view is referencing a hosted feature layer of OSM point (node) data in ArcGIS Online that is updated with minutely diffs from the OSM planet file. This feature layer view includes tourism features defined as a query against the hosted feature layer (i.e. tourism is not blank).
OpenStreetMap Tourist Attractions for South America	https://uw-mad.maps.arcgis.com/home/item.html?id=a3da6e0dba8f4aab8286c526fe9e6c61	This feature layer provides access to OpenStreetMap (OSM) tourist attraction point data for South America, which is updated every 5 minutes with the latest edits. This hosted feature layer view is referencing a hosted feature layer of OSM point (node) data in ArcGIS Online that is updated with minutely diffs from the OSM planet file. This feature layer view includes tourism features defined as a query against the hosted feature layer (i.e. tourism is not blank).
Visited Sites	This layer will be created as part of the project	This layer will store all visited sites and pertinent details, including video timestamps and ratings for various categories such as food, service, aesthetics, accessibility, and cost.
Navigation (Dark - Places)	Basemap in ArcGIS Online	This dark base map includes roads and other navigational aids that a traveler would need but would allow for relevant points to standout.

ER Diagram

Entities and Attributes

User

- UserID
- Name
- Email
- Role (e.g., Tourist, Admin)

Tourist Location

- LocationName
- Description
- Latitude
- Longitude
- Address

Review

- ReviewID
- UserID
- LocationName
- Rating
- Comments
- Timestamp

Category

- CategoryID
- Name
- Description

Video

- VideoID
- LocationName
- URL
- Timestamp

Rating

- LocationName
- Food
- Service
- Beauty
- Accessibility
- Cost

Relationships

- A **User** can have multiple **Reviews**.
- A **User** can make multiple **Observations**.
- A **TouristLocation** can have multiple **Reviews**.
- A **TouristLocation** can belong to multiple **Categories**
- A **TouristLocation** can have multiple **Videos**.
- A **TouristLocation** has one **Rating**.