

Evaluation 1: Website, Stakeholders, Goals and Task Analysis
Application: Keweenaw Time Traveler
Team #4: Konnected Keweenaw
Grad #7: Abheek Srivastava

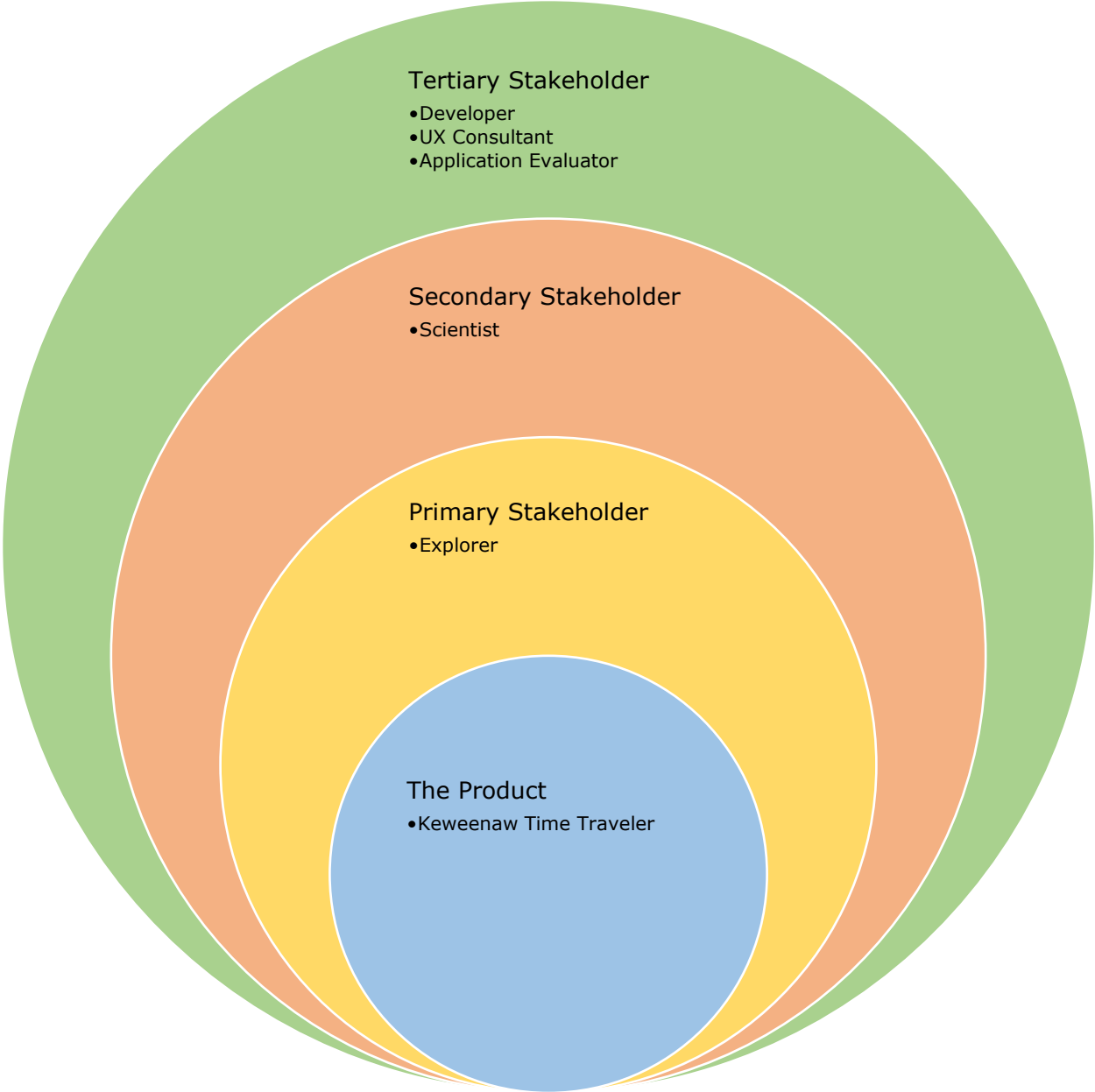
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Description of System

Konnected Keweenaw team is working to improve and enhance the existing Keweenaw Time Traveler Story Query Tool. The idea behind the application is to bring user submitted history to the public in a structured way. The Keweenaw Time Traveler is a historic spatial data infrastructure (HSDI) which aims to bring primary source history to a broad number of people interested in the Keweenaw past. The cores of the system are 'Explore App' which allows users to explore the datasets and share their own knowledge/story/personal or family history with spatial-temporally located texts, photos, and videos. The goal of the Konnected Keweenaw team is to construct a query tool that will allow users to filter the stories into themes and display them interactively on the map. In addition to that, the team will be focusing on scalability of the databases.

Stakeholder Onion Model



Stakeholder Description

Primary Stakeholder

Explorers – They are the primary stakeholders. They can be someone who are interested to learn about Keweenaw’s history. They can also be a resident of Keweenaw who want to contribute their own personal or family history otherwise use the system or application to browse some stories based on certain themes.

Secondary Stakeholder

Scientist - They are the secondary stakeholder who are not directly associated with the system/application. However, they are responsible for deciding the goal of the application. They can use the existing data to verify if the intended goal has been met. For this application, Don LaFreniere, Sarah Scarlett and Ryan Williams are the scientist.

Tertiary Stakeholder

Developer – They are one of the tertiary stakeholders who create the application and provide functionality and usability to the application. For this application, CS4760 Team #4, Konnected Keweenaw are the developers.

UX Consultant/Application Evaluator – They are responsible for evaluating the application. They determine if the application is usable and accessible. They verify if the application is performing intended actions. For this application, Graduate Student #7 (Abheek Srivastava) and the course instructor (Robert Pastel) are the App Evaluators.

Stakeholder Goal Influence Table

Stakeholders	Goals	Contributing Influence	Constraining Influence
Explorers	To search stories and explore the Keweenaw's history; To contribute their own personal/family history	Data (texts, photos and videos) and exploring the Keweenaw's past	Fast querying the stories based on themes and interaction on the map
Scientist	To help finding out the application requirements; To determine the future of the application; To verify the application goals using the existing data	Application requirements	Potential of developers in meeting the application requirements
Developer	To complete the application successfully	Designing and developing the application	Application constraints
UX Consultant/ App Evaluator	To evaluate application and help development team consulting about application usability	Application criteria and the results	Understanding of the Application, Application Design and Interaction

Stakeholders Goal Influence Table Summary

Explorers are the primary stakeholders and are interested to use the Explorer App of Keweenaw Time Traveler to search stories based on themes and get engaged with the map to learn about the Keweenaw's past. They can also contribute their stories using the texts along with attaching photos and videos. **Scientists** are the one who help with the requirements and determine the goal of the applications. Later, they use the existing data to verify the applications if the determined goals are met. They frequently interact with the developers and UX Consultant/Application Evaluator helping them to understand the application goals. The **developers** build the application based on the scientist requirements. They make sure that the requirements are met, and the application is working well. The UX Consultant/Application Evaluator look the application from a little different angle where they evaluate if the application is accessible for all users, if it has a user-friendly design and the application meets all the scientist requirements.

Personas

Primary Stakeholders Personas

Albert Gerald

Physics Teacher, Resident of Keweenaw

Albert is a 28-year-old and teaches Physics in St. Pete High School. He is very much fond of exploring about history and uses Keweenaw Time Traveler to learn about Keweenaw's past.

Michael Clarke

Veteran, Resident of North Carolina

Michael is a 62-year-old retired army man. His hometown is Calumet and he uses Keweenaw Time Traveler to explore the past and refresh his childhood memory.

Secondary Stakeholders Personas

Maria Swift

Assistant Professor of History, Michigan Technological University

Maria is a 35-year-old and is making a documentary on Keweenaw's history therefore she uses Keweenaw Time Traveler to explore the Keweenaw's past.

James Warne

Scientist, Michigan Technological University

James is a 32-year-old doing a research on the ancestry and uses Keweenaw Time Traveler to find history of local legends.

Simplified Hierarchical Task Analysis (HTA)

Keweenaw Time Traveler Home View

Select Start the Time Traveler

Start the Time Traveler View

Select Explore

Explorer View

Click on the Stories Button

Input the Story

Click Search Button

Display the stories and highlight the story point on the map

Simplified HTA Summary

The initial view of the Keweenaw Time Traveler application starts with the homepage where the explorer must click **Start the Time Traveler** button which will take the explorer to the next page called Start the Time Traveler view. In Start the Time Traveler view the explorer will click the **Explore** image which will take to the **Explorer View**. In Explorer View, the explorer will select the Stories tab and input the theme or keywords to search stories and then click the Search button. Finally, the filtered stories will be displayed which on click will open the story and highlights the respective points on the map.

Appendix

Notes from scientist meeting 1

Date: 1/25/2019

Goal:

1. The primary goal is to modify the existing query system and make searching easier and more optimized. There should be an advance search option so that user can search based on multiple criteria.
2. The scientist emphasized about the users(explorer) getting lost while searching stories and get curious to explore something else.
3. The scientist mentioned that there are only 700 entries on the site currently and they want scalability of the database because the data will grow exponentially and cross millions.
4. The points on the map should get highlighted by different colors based on the user searches.