

**The Understanding of trauma and reconciliation with research
for AI/AN and 1st Nations Canada**

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10/23/2024

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Project Description

Our team is working on understanding trauma and reconciliation through research for the AI/AN and 1st Nations Canada project. This project aims to serve as a resource hub for students, The community, and the Native American Student Association at Eastern.

It addresses the challenge the association faces of lacking a centralized, accessible resource for individuals to explore research on the everyday issues confronting the AI/AN community. We look to engage the site visitors by adding multimedia aspects, brief descriptions of different topics, and links to scholarly research.

The target users for this site are mostly those wanting to know more about these issues, but it also opens up an all-in-one new resource for students wanting to write about these topics for research as well. By offering a centralized platform that features articles, studies, and personal narratives, we intend to enhance understanding and promote meaningful dialogue surrounding trauma and reconciliation. Our goal is to make an easy and maintainable site to encourage engagement and contribute to the greater good of the AI/AN community.

User Stories

U1: As an AI/AN, I want a reliable site with scholarly research, so that I can read up on issues with reliable sources

Scenario 1: Indigenous person researching issues

Given I am an Indigenous person

And I want to find reliable information about a certain topic

When looking into the site

Then I should see links to proper sources

U2: As a Native American Student Association club member, I want a maintainable site, so that I can keep updating this site with information and research and share this site with the community

Scenario 1: Club member updating site information

Given I am a club member of the Native American Student Association

And I'm looking to update some information

When I find new information or updated sites

Then I have an easy way to do update my links and information

U3: As an EWU IT employee, I want a maintainable site, so that I can keep it up to date

Scenario 1: Updating layout for page

Given I am an IT employee at Eastern

And I've been asked to update this site for the club

When they want to update page layouts

Then I'll be able to easily update the site

U4: As an Indigenous person, I want an informative site with the Indigenous perspective, so that I can present others with our everyday situations and perspectives

Scenario 1: Finding perspectives on indigenous people

Given I am Indigenous

And looking to finding stories that relate to topics and issues I face

When looking into this site

Then I want a section that vocalizes our voices and stories

U5: As a Native American Student Association club member, I want a site that provides brief descriptions of our Indigenous struggles that link to research, so that I can easily find topics and credible information for myself and others visiting this site

Scenario 1: Club member wanting to find relevant information with a convenient brief description

Given I am a club member

And trying to provide easy to read information to non-club members about our issues

When asked

Then I can provide a all in one resource site with all our relevant information

U6: As a community member, I want a multimedia site, so that I feel engaged and informed about these topics

Scenario 1: Community member looking into AI/AN topics

Given I am a community member with no background knowledge in AI/AN

And I want to understand and learn more about their struggles

When looking into this site

Then I want to be able to find brief information and links to relevant resources to learn more

U7: As a cultural advocate, I want a section dedicated to Indigenous voices and personal stories to amplify our community's experiences and perspectives.

Scenario 1: Advocate wanting to see more Indigenous stories/points of view being told

Given I am an advocate for AI/AN people

And looking for perspectives on issues from Indigenous people

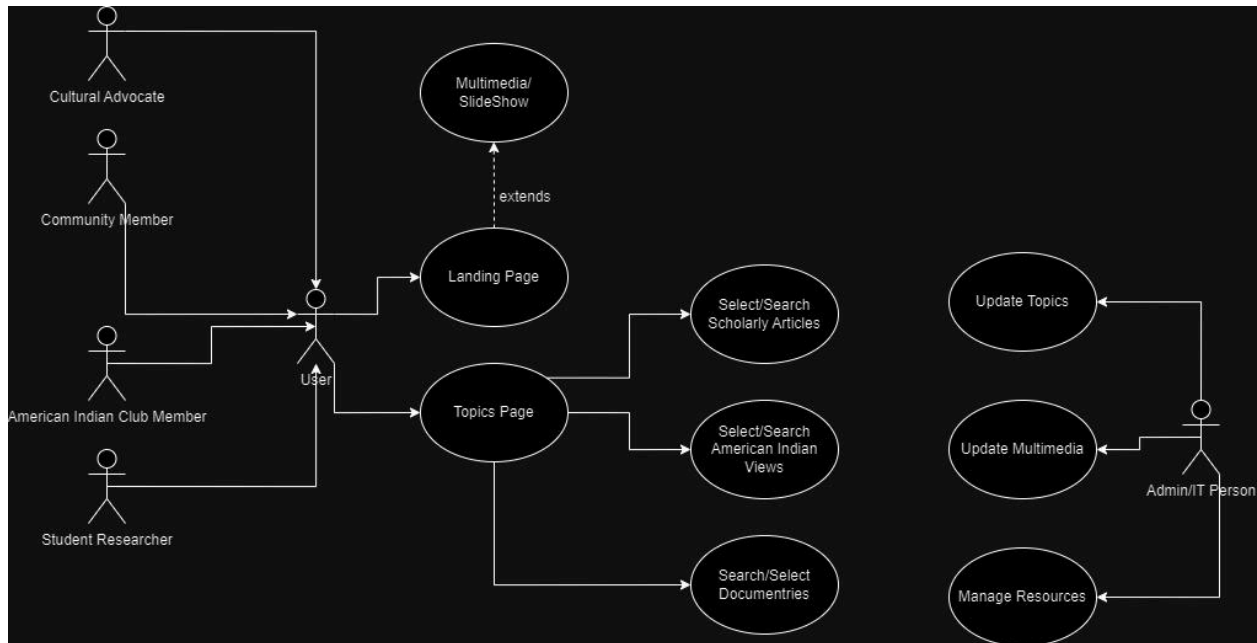
When wanting to spread awareness on these issues

Then we can find an easily accessible section with Indigenous views and voices

Functional Requirements

[FR-1 (U1)] Having Linked Scholarly Articles	The site must have credible and linked sources for the user to easily click on and research on their own
Priority:	Level 0 (Essential)
[FR-2 (U2)] Maintainability of Research Posted on Site	Information on the site must be up to date and the site must be flexible for updates needed on any sections
Priority:	Level 0 (Essential)
[FR-3 (U3)] Use of WordPress	The site must use WordPress to allow Eastern to keep maintaining this site by the IT department
Priority:	Level 0 (Essential)
[FR-4 (U5)] Descriptive intro to topic	The site must have sections on topics linking to research, but we also need a brief description to engage readers as well as easy readability.
Priority:	Level 1 (Should Have)
[FR-5 (U5)] Home page	Home page(landing page) explaining the use of this site
Priority:	Level 1 (Should Have)
[FR-6 (U5)] Sectioning of information	There should be not only scholarly articles but also a section on the voices of indigenous people (stories, experiences, etc). These should have their own designated pages or sections of the site
Priority:	Level 1 (Should Have)
[FR-7 (U6)] Multimedia	The site can include club pictures, documentaries, and other forms of media that may be useful for sections
Priority:	Level 2 (Could Have)

Use Case Diagram and Use Cases



Use Case 1: Looking for scholarly articles

- **Actors:** Student
- **Preconditions:** Have a topic they're researching
- **Postconditions:** Have some brief understanding of a topic with relevant sources for them to use
- **Main Flow:**
 - * Student navigates to EWU website looking for resources
 - * Student has a topic they're looking into
 - * Student navigates to our site and sees an organized page by types of sources
 - * Navigates to scholarly resources
 - * Leaves the site with relevant information they need to accomplish their research
- **Alternative Flow:** If student needs more than scholarly resources, they can find that on the different provided pages
- **Related Requirements:** FR-1, FR-2, FR-4, FR-6, FR-7

Use Case 2: People wanting to get involved and engaged

- **Actors:** Community member
- **Preconditions:** Community member has found an interest in understanding the struggles of AI/AN people
- **Postconditions:** Leaves site with a better understanding of the struggles AI/AN people face with multi-media informational sections
- **Main Flow:**
 - * Community member hears about current struggles
 - * Navigates to the site
 - * Navigates through scholarly to gather information
 - * Leave the site feeling more informed and engaged with this community's struggles
- **Alternative Flow:** Community members don't feel engaged with the articles provided, so they navigate through the multimedia making them feel more engaged while actively learning
- **Related Requirements:** FR-1, FR-2, FR-4, FR-5, FR-6, FR-7

Use Case 3: Managing sources, dates, media, links

- **Actors:** EWU IT and NASA club members
- **Preconditions:** NASA club members find a link that doesn't properly link anymore, out-of-date pictures, etc.
- **Postconditions:** EWU IT can manageably update the page with relevant information for the needs of the club while keeping site integrity
- **Main Flow:**
 - * NA/SA student is looking through the site
 - * NASA student finds incorrect information in some way for the site
 - * The IT team can go in and easily update site information quickly and efficiently
- **Alternative Flow:** NASA student wants to add in more information than what the site has, IT should be able to maintain the site since we have designated sections for all our various source types
- **Related Requirements:** FR-2, FR-3, FR-6

Use Case 4: More AI/AN voices need to be told

- **Actors:** Cultural advocate
- **Preconditions:** Looking for more personal stories versus facts in an article
- **Postconditions:** The site provides various means of information including a more personal section with stories from AI people and media making the stories more engaging
- **Main Flow:**
 - * Cultural advocate wanting to hear more about AI personal experiences
 - * Look into our section for voices of the AI people
 - * Leaves feeling more engaged with the AI people and leaves with a different perspective
- **Alternative Flow:** Cultural advocate works better with visuals, stumbles on out variety of media and still leaves feeling engaged and empowered
- **Related Requirements:** FR-,7 FR-6

Non-functional Requirements

Non-Functional Requirements	Description
[NFR-1] Scalability	The system shall handle students, community members, club members, etc.
[NFR-2] Usability	The system should be easy to navigate for all users. Having sections and pages for each type of source for feasibility.
[NFR-3] Availability	The system should be easily and seamlessly incorporated into the EWU website, and follow EWU standards for pages so they can keep this website even after we have finished this course
[NFR-4] Maintainability	The system should be easily available for IT and follow guidelines for easy updating of information
[NFR-5] Reliability	The system should have up-to-date information, links, and media that tie in with each topic.

Traceability Matrix

Functional Requirements	Use Case	User Story	Priority
FR-1: Linked Scholarly Articles	UC-1: Looking for scholarly articles	US1: As an AI/AN, I want reliable sources to research issues	Level 0 (Essential)
FR-2: Maintainability of Research	UC-3: Managing sources, dates, media, links	US2: As a NASA member, I want a maintainable site for easy updates	Level 0 (Essential)
FR-3: Use of WordPress	UC-3: Managing sources, dates, media, links	US3: As an IT employee, I want an easy-to-update WordPress site	Level 0 (Essential)
FR-4: Descriptive intro to topic	UC-1: Looking for scholarly articles	US5: As a NASA member, I want brief descriptions linked to research	Level 1 (Should Have)
FR-5: Home Page	UC-1: Looking for scholarly articles	US5: As a NASA member, I want a resourceful homepage	Level 1 (Should Have)
FR-6: Sectioning of information	UC-2: Getting involved and engaged	US5: As a NASA member, I want sections for Indigenous voices and stories	Level 1 (Should Have)
FR-7: Multimedia	UC-4: Amplifying Indigenous voices	US6: As a community member, I want multimedia to stay engaged	Level 2 (Could Have)

Evaluation of Existing Solution

No solution exists, we are making it from scratch. The plan is to have it easily scalable with more resources and topics as needed.

Individual Contribution Summary

Hadi Mallah: Team Leader. Worked on Evaluation of the current solution and the use case diagram. Kudos to Cynthia, she worked hard.

Shahzeb Khan: Worked on the Use Case Diagram and created the traceability matrix.

Cynthia Montalvo: Functional Requirements, Use Case Diagram and Use Cases,
Non-functional Requirements

System Architecture Diagram

