

Part 3: Development Phase-User Interface Design

Designing an Online Heritage Language and Cultural Learning Platform

Beginning Amharic for Children and Families

Fessehaye Yehdego

University of Texas Rio Grande Valley

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Instructor: Maria Eugenia Perez, Ed.D.

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1. Introduction

The Development phase of the ADDIE model focuses on transforming the instructional design blueprint into a functional learning environment. For this project, the user interface was developed using the Hahu Skill online learning platform. The objective was to create an intuitive, visually appealing, and learner-friendly environment that supports beginning Amharic language learners and their families. The prototype emphasizes simple navigation, consistent page layouts, and multimedia-ready lesson pages that will later contain the instructional content.

2. Delivery Platform

The course is delivered through a custom web-based learning platform developed with PHP, HTML, CSS, and JavaScript. The platform was selected because it allows complete control over the learning experience, supports multimedia resources, and works on desktop computers, tablets, and mobile devices. It also supports learner registration, instructor approval, personalized dashboards, lesson navigation, quizzes, and certificate generation.

The development link is <https://heritage.hahuskil.com/index.php> (Test ID HS000003 and Phone 2148091000)

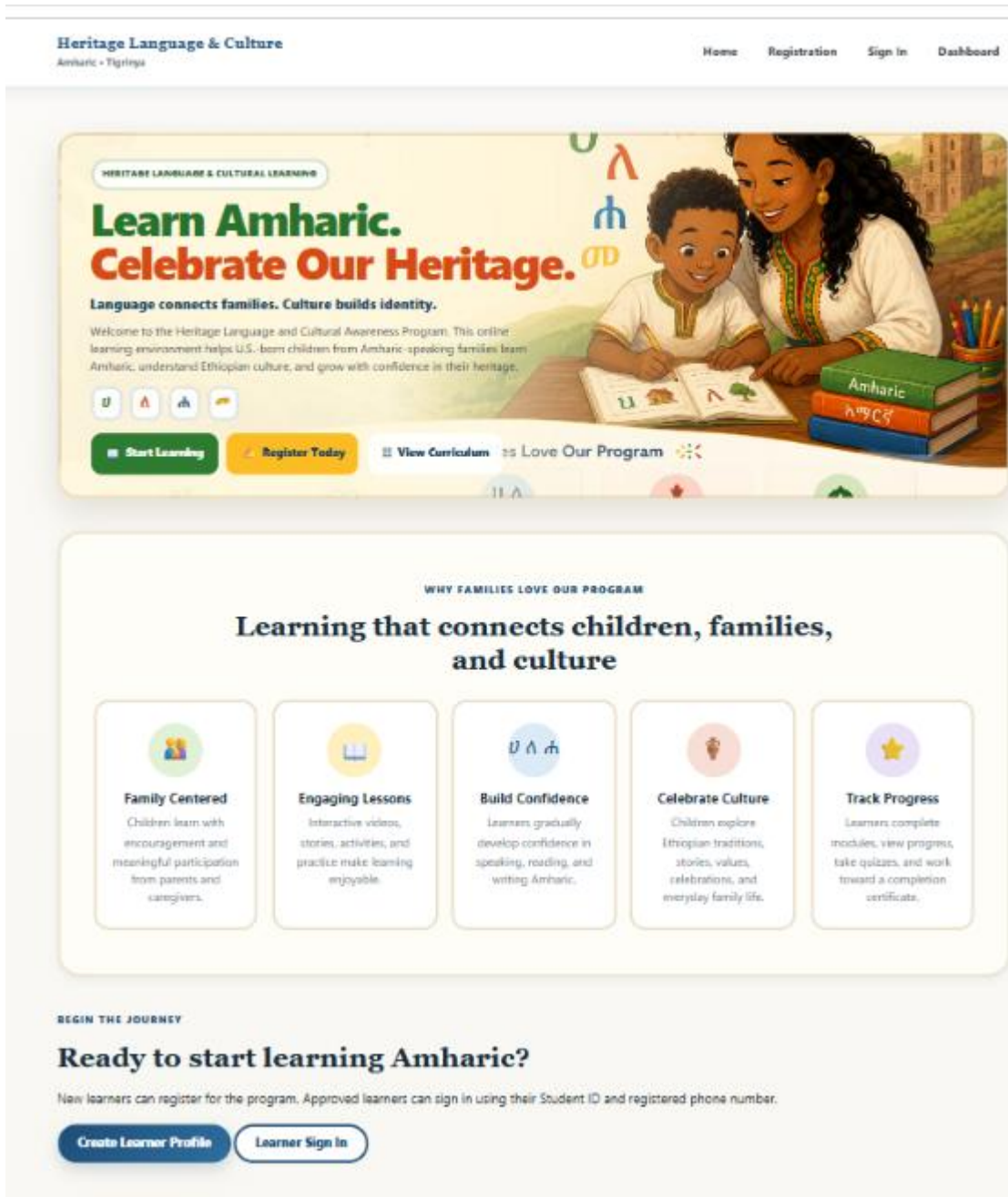


Fig. 1 – Homepage

3. Appearance and Theme

The interface uses a warm cream background with green and gold accent colors inspired by Ethiopian cultural identity. Child-friendly illustrations, consistent typography, and simple page layouts create a welcoming learning environment for young learners. The

visual design remains consistent across all pages to strengthen usability and provide a professional appearance.

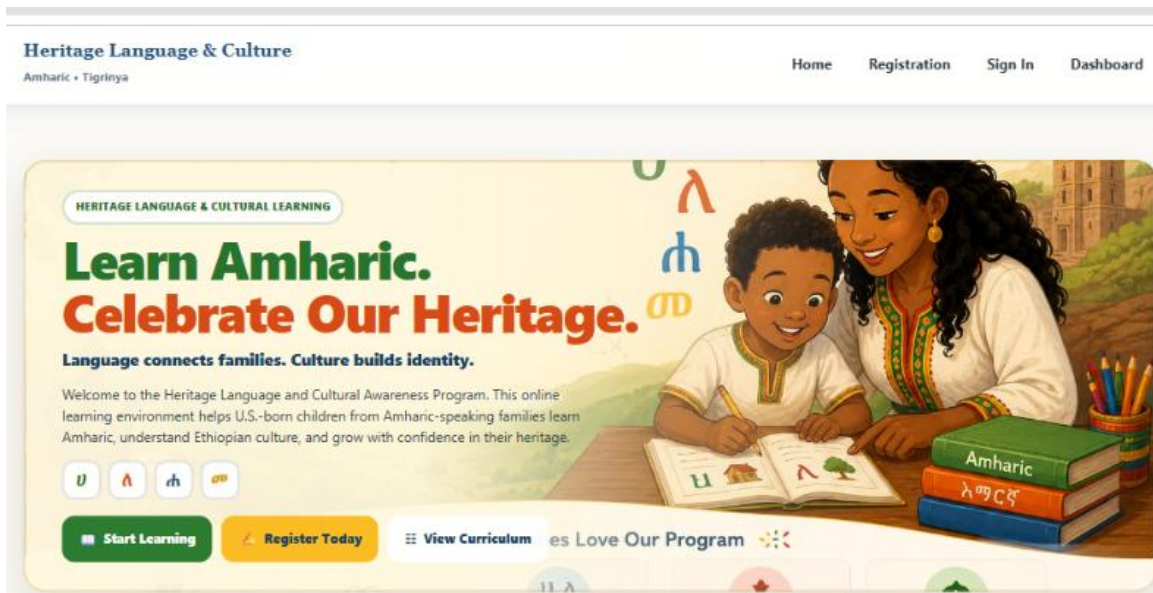


Fig. 2 – Homepage showing theme and banner

4. Navigation Design

The navigation menu was designed to be clear and predictable. Learners move from registration to approval, login, dashboard, module selection, and lesson pages using consistent navigation controls. Each lesson follows the same structure, allowing learners to focus on learning rather than figuring out how to navigate the course.

Heritage Language & Culture

Arabic - Tigrinya

HomeRegistrationSign InDashboard

Module Feedback

Please share your experience with this lesson. Your feedback will help improve the Heritage Language and Cultural Awareness Program.

Learner and Module Information

Loading learner information...

1. Overall Experience

How would you rate this lesson? *

Select one

2. Lesson Difficulty

How difficult was this lesson? *

Select one

3. Learning Resources

Which lesson resources helped you most? Select all that apply.

Video

Audio

PDF

Watching Activity

Typing Activity

Family Practice

Quiz

4. Reflection

What was the most helpful part of this lesson?

Describe what helped you learn...

What was the most difficult part?

Describe anything that was confusing or difficult...

Fig. 3 – Dashboard

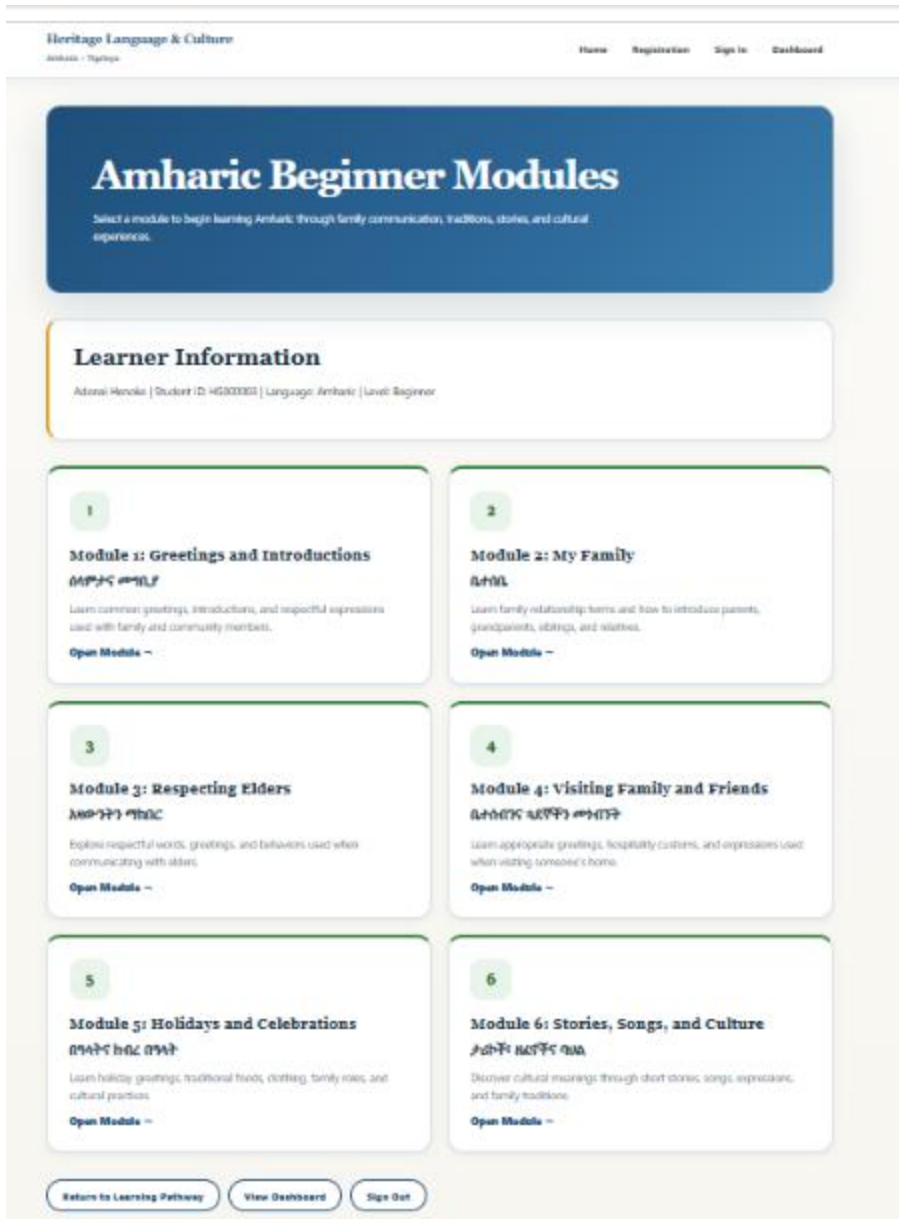


Fig. 4 – Module Navigation

5. Site Organization

The course is organized into six sequential beginner modules. Each module contains a lesson overview, learning objectives, instructional video, vocabulary practice, downloadable PDF activities, family practice activities, quizzes, and a 'What's Next'

section. At this stage, these pages serve as the course shell and provide placeholders for the instructional materials that will be completed in the next phase.



Fig. 5 – Lesson Page Template

6. Technical Evaluation

The interface was reviewed to ensure that navigation links function correctly, menus are consistent, pages load properly, and the layout remains responsive across different screen sizes. Grammar, spelling, and visual consistency were also checked. Improvements made during testing included refining the responsive layout, reorganizing the CSS structure, and improving button placement and overall usability.

7. Reflection

Developing the user interface demonstrated the importance of simplicity, consistency, and learner-centered design. The prototype provides a strong foundation for the next phase of development, where instructional videos, PDF resources, interactive activities, and assessments will be added to each lesson page. The interface is designed to support independent learning while encouraging family participation throughout the course.

Declaration of AI Use

This project was developed with support from ChatGPT (OpenAI) to improve organization, grammar, sentence structure, and the presentation of the instructional design documentation. The interface design, platform development, instructional decisions, and overall project implementation were completed by the student.