

Cherokee Language Learning App



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Who

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- Tuan Nguyen

What

Language learning mobile app for Cherokee

Partnered with a local Cherokee teacher

Intended testers/users: middle school students

Uses two methods of instruction:

- Story-based games
- Flashcard feature

What (cont.)

- App
 - Compatible with both Android and iOS
- Game
 - Tells traditional stories from Cherokee culture
 - Each set of levels tells a different story
 - Two types of game modes:
 - Matching
 - Question-answer
- Flashcard
 - Traditional flashcard feature allows users to study specific words/phrases
 - Users can choose from pre-made sets or create their own
 - Flashcards can be randomized by category

Why

Problem: Endangered Language

- Only 12,000 native speakers out of 300,000 tribal members

Cherokee ties deeply with historical and cultural values. Facing extinction means a large part of Native American culture and history will be lost.

Popular language learning tools tend to overlook Cherokee and its many dialects.

However, Cherokee language keyboards are readily available.

Our project aims to provide a fun and engaging way to practice conversational Cherokee.

How

Flutter

Cloud Firestore

- Stores stories, questions, and answers

SQLite

- Stores flashcard data locally on device

Future Work

Add settings page

Implement user level/progress functionality

Add preset data to the SQLite, so there are default flashcard sets to start

Implement audio, so users can listen to Cherokee terms and definitions

Complete fill in the blank mini game

Change difficulty level of games

Block levels

Deploy app to classrooms for beta testing (add a feedback feature)

LIVE DEMO