

Laos Training App

A tablet-based solution for training immunization facility workers in Laos

Samantha Brender, Tore Hanssen, James Lee, Sang-Wha Sien



Immunization centers in Laos report summaries of vaccine stock levels and cold chain refrigerator performance.



Cold chain managers, health facilities, and vaccine recipients can benefit from accurate, up-to-date information.

SL PC 102 PE 81

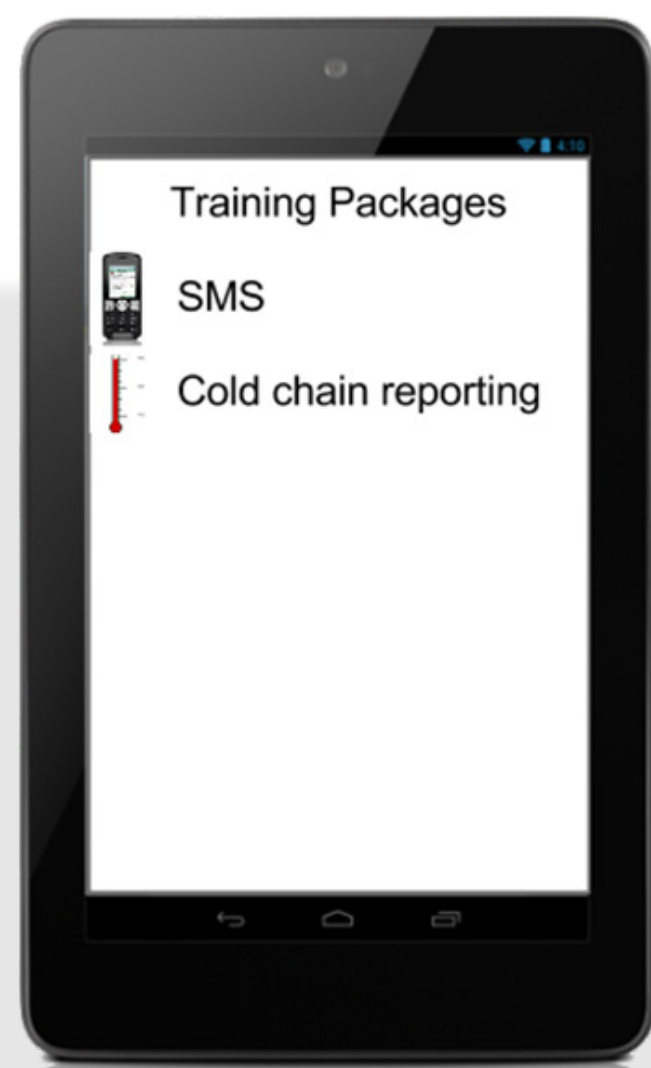
Stock level:
PCV vaccine: 102
Penta vaccine: 81

New health facility workers, unfamiliar with SMS messaging and Latin characters, must send these SMS reports.



Currently, new workers struggle to learn from non-interactive PowerPoint slides.

Our solution
A tablet-based interactive training application built in Android



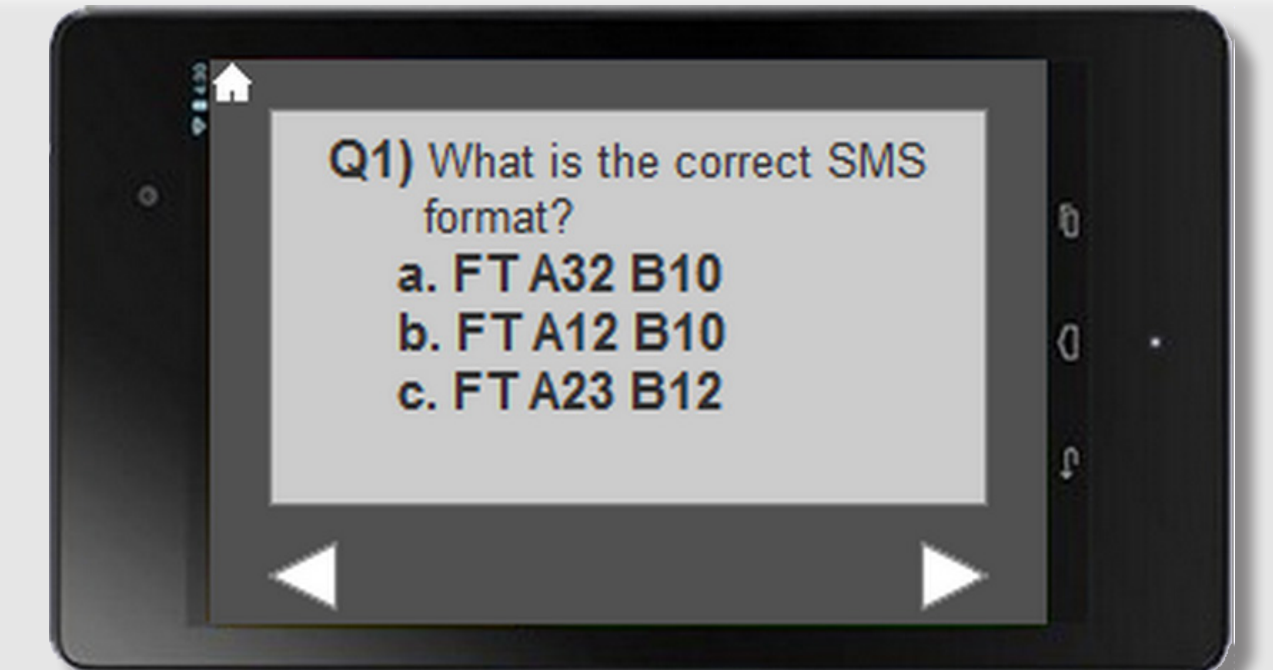
Browsing of Lessons
Each instructional package consists of

- a video on a specific topic
- related quizzes and puzzles



Training Videos

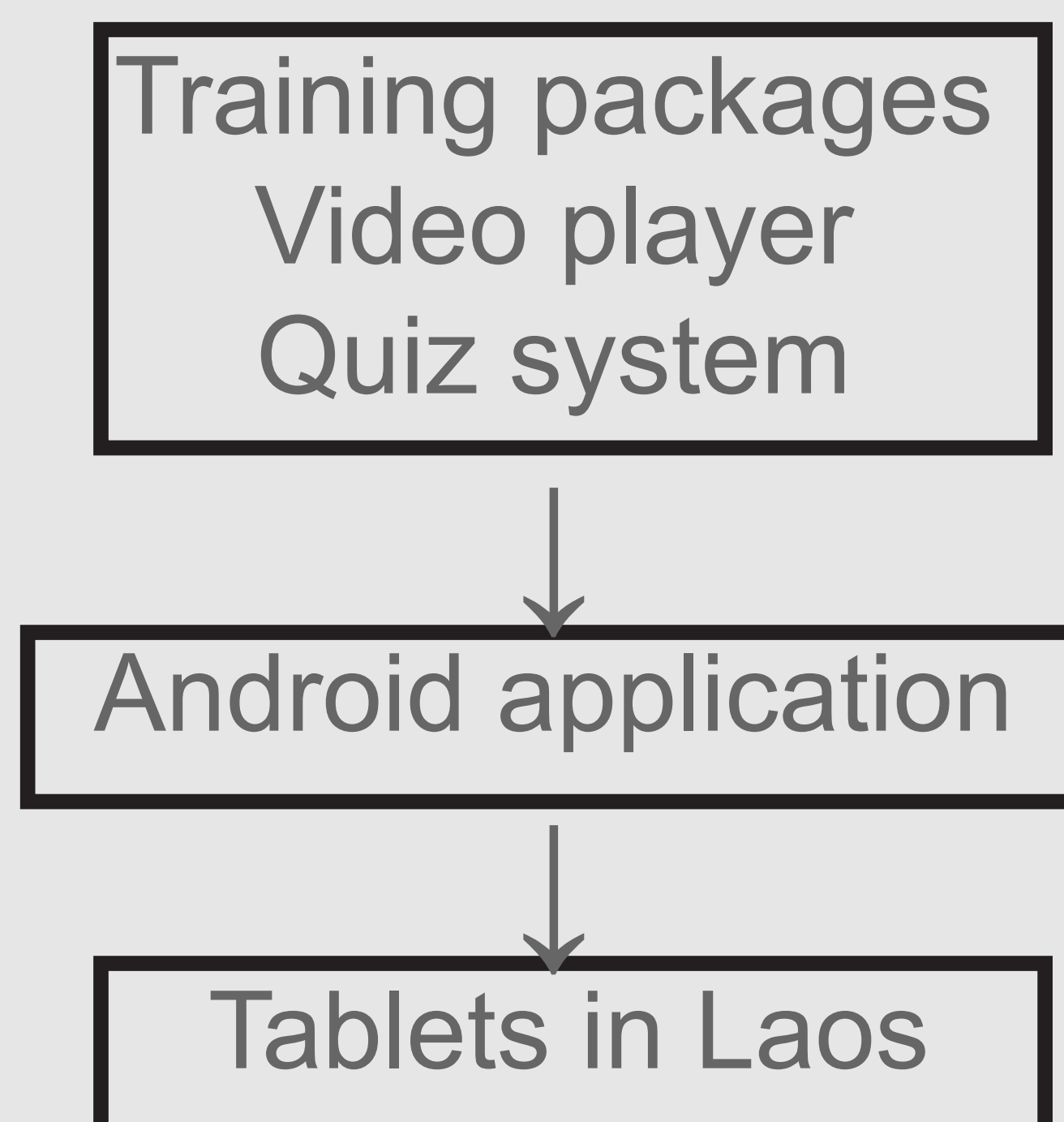
- Consistent training
- Segments can be replayed as necessary
- Videos can be refined by instructors



Interactive Quizzes

- Dynamic feedback
- Gamification can enhance learning

Architecture



Spring Quarter Timeline

- Week 1** Design
- Weeks 2-3** Basic implementation of cold chain application
- Week 4** Send app with Richard to Laos for feedback
- Weeks 4-6** Focus on making app extensible
- Weeks 7-8** Design revisions based on feedback from Laos
- Week 9** Wrap up extensibility, convert language to Lao
- Week 10** Final presentation

Collaborators

- Ranjit**
UNICEF cold chain consultant
- Viorica**
UNICEF Chief of Health and Nutrition in Laos
- Trevor**
UW graduate student

Related Work

- Digital Green
- Digital Public Health
- MultiLearn