



**Fortitude Learning Box - FLB**

# Why the Project Matters

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- ⚡ Most of IDP children in Karen State lack digital learning.
- ✗ No internet, unstable electricity in many rural communities.
- 📚 Interrupted schooling due to conflict & displacement.
- ♿ Children with disabilities face double exclusion.



# What is Fortitude Learning Box?



1.Solar-powered, mobile learning hub

2.Portable , offline and local Wi-Fi hotspot.

3.Runs on open-source Linux Technology ( Moodle LMS )

4.Adaptive & inclusive for diverse learners

# Fortitude Learning Box -

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- **Hardware:** Raspberry Pi 5 / mini-server, SSD, solar power, router.
- **Software:** Linux, Moodle LMS, accessibility tools.
- **Connectivity:** Wi-Fi network for phones, tablets, laptops.
- **Power:** Solar-powered + battery backup.
- **Content Delivery:** Digitized curricula + multimedia library.
- **Support :** 50+ users concurrently

# Educational Content

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- **Core Curriculum (Grades 1–12)** → FED and partners digitized courses
- **Specialized Training:** Trauma-informed teaching, psychosocial counseling, disability awareness, EORE, GBV, and safe migration.
- **Digital Library & Media:** Audiobooks, offline PDFs, podcasts, videos.
- **AI Empower :** It will be part of sustainable plan

# Hardware components

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- Raspberry PI 5 Model B
  - Random Access Memory - 8 GB
  - Solid State Drive ( SSD) - 256 GB
  - Network port + WIFI enabled
  - Customized Heat Sink and Airflow design
  - Metal Case with damage sensitivity environment
  - Robust Storage Design with SSD
- Wireless Router ( dual band support )
- Network cables for local wiring
- Power station



# Hardware components

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Computer Board  
With SSD 256GB



Metal Case



Tablets

# Hardware Components

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TP-Link Router



Power Station

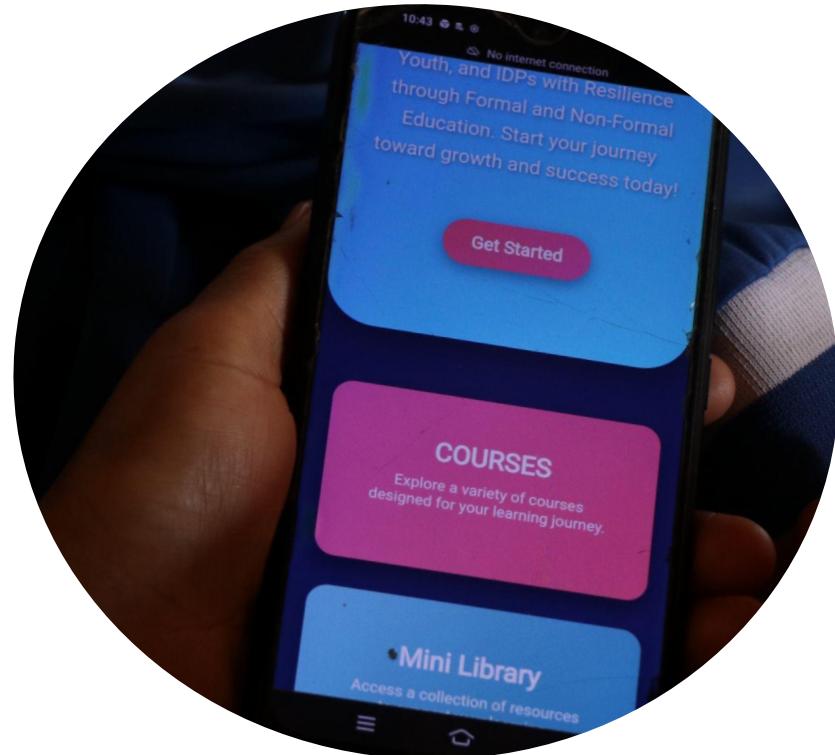


Network Cables

# Software components

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- Open Source Technology - Linux based OS
- Docker based image are running on Raspberry PI
- Including moodle , calibre , audio book
- Enhancing home landing page for easier access



# Welcome to the Fortitude Learning Box

Empowering the People of Karenny, Youth, and IDPs with Resilience through Formal and Non-Formal Education. Start your journey toward growth and success today!

Get Started

## COURSES

Explore a variety of courses designed for your learning journey.

## Mini Library

Access a collection of resources to support your learning.

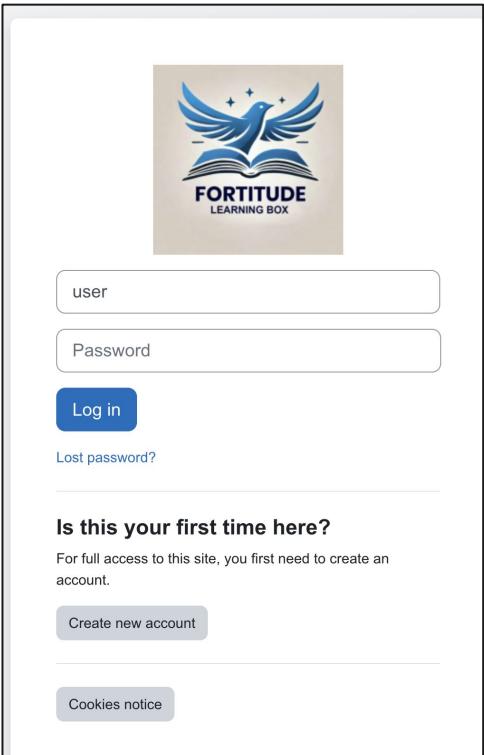
## Audio Book

Listen to engaging audio books anytime, anywhere.

## Software Components

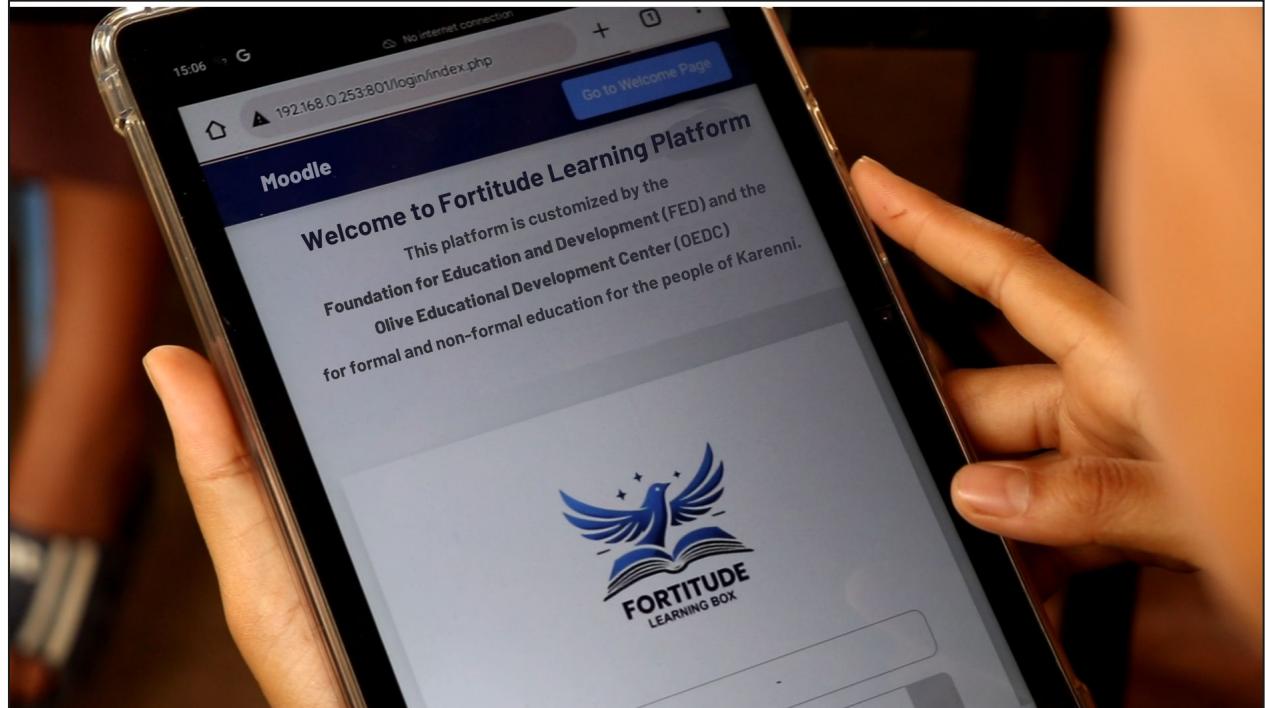
- COURSES
- Mini Library
- Audio Book

# COURSES - Moodle



The image shows a mobile device displaying the Moodle login page. At the top is the Fortitude Learning Box logo, which features a stylized blue bird with wings spread wide, perched atop an open book, with three small stars above it. Below the logo is the text "FORTITUDE" and "LEARNING BOX". The main form has two input fields: "user" and "Password", followed by a blue "Log in" button. Below the buttons is a link "Lost password?". A horizontal line separates this from a section titled "Is this your first time here?". Underneath this title is the text "For full access to this site, you first need to create an account.", followed by a blue "Create new account" button. Another horizontal line is at the bottom, followed by a "Cookies notice" link.

Mobile View



Tablet Views

# COURSES - Moodle

## Available courses

Explosive Ordnance Risk Education - EORE

Teacher: Admin User

Trauma Informed Teaching Methods - TITM

Teacher: Admin User

Gender Based Violence - GBV

Teacher: Admin User

Protection from AirStrike - PFA

Teacher: Admin User

Grade 1 Maths

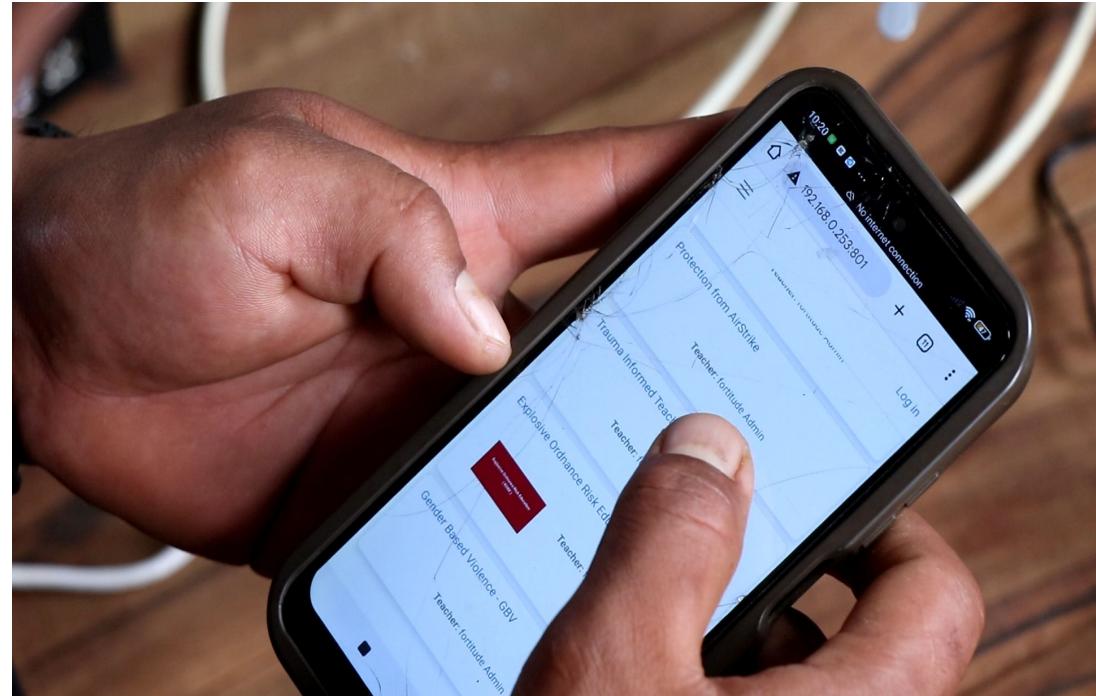
Teacher: Admin User

Grade 1 English

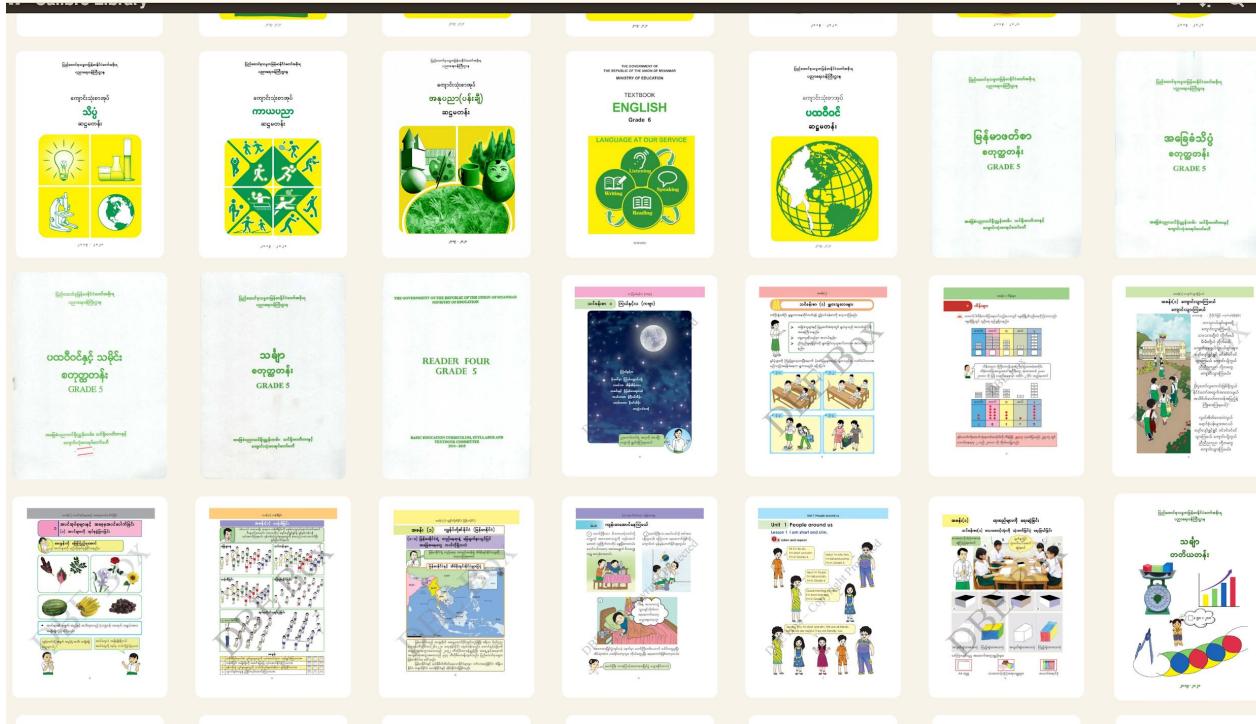
Teacher: Admin User

Grade 1 Myanmar

Teacher: Admin User

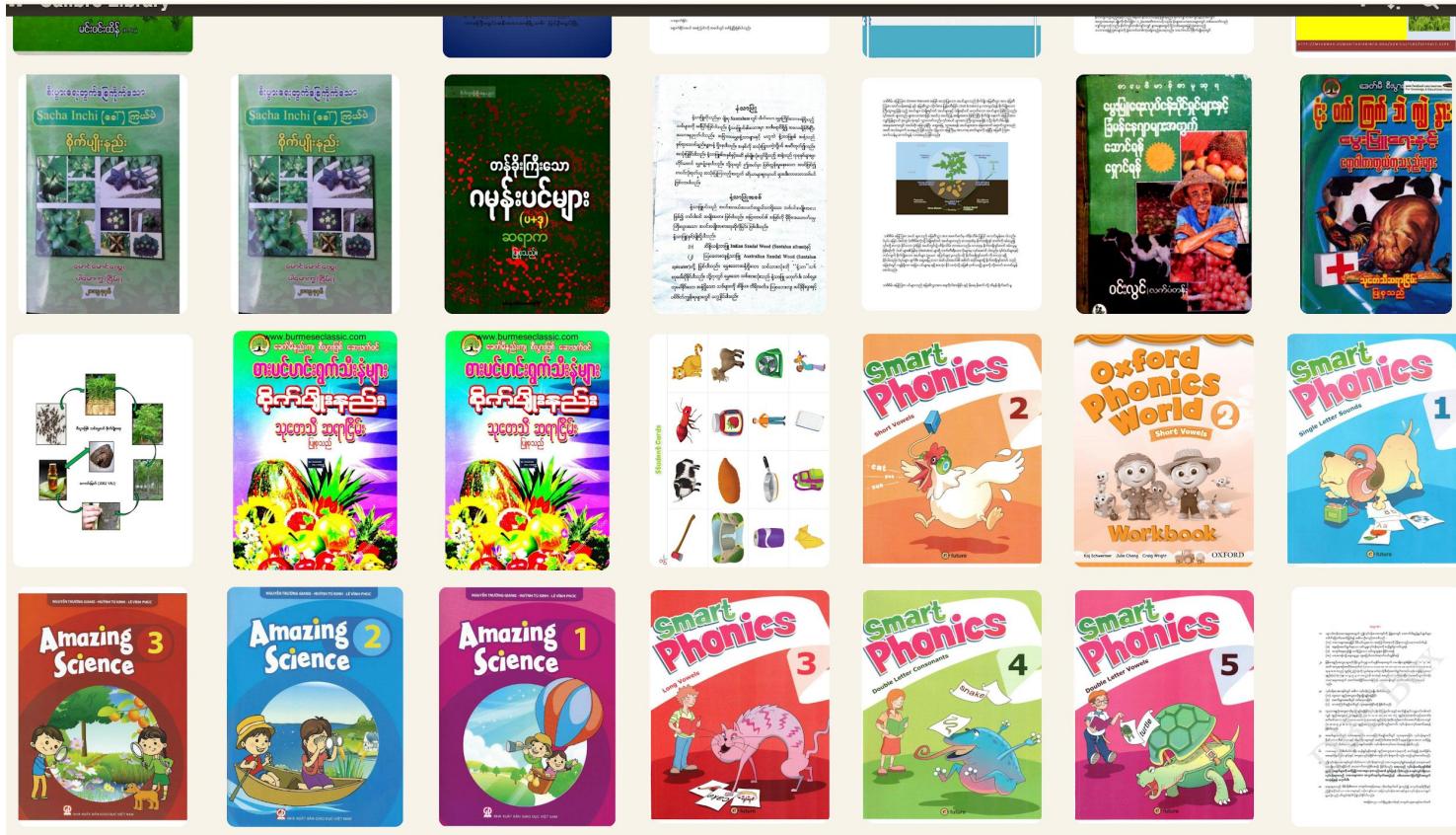


# Mini Library



- Grade 1 - 12 Textbook
- Agricultural
- Comic
- Health
- Livestock
- Technology
- English Textbook , etc

# Mini Library



# Audio Book

The screenshot shows the audiobookshelf application interface. On the left is a sidebar with icons for Home, Latest, Library, Add, and Queue. The main area displays a list of 'Latest episodes' from 'Third Story Children Books'. Each episode entry includes a thumbnail, the title in English and Burmese, duration (e.g., 4 min, 6 min, 8 min, 9 min), and control buttons for play, pause, and queue.

- ဗုဒ္ဓဘာသ်မြော မြှေးမြှေ - Myue Myue The Ant
- မန္တမာရာမိဇာနှင့် အကြောင်းပြည့် - Magic Princess and Sugar Land
- ပြုပြန်ဆွဲ
- သီချို့ကျင်းသွားသည်
- ဝါးအမောင်လေ့စောင်းရှု
- မိမိကောင်းစွာဖွူး

- **Story for Kids**
- **English Songs**
- **Local News**
- **Educational support songs**
- **Worship songs**
- **Motivations speaking**

# Audio Book

audiobooksnet Story Book Search...

လေးစားဖွယ် အမျိုးသမီးများ  
by Let's Read Asia

LANGUAGE Burmese  
SIZE 1.15 MB

Read Edit Lock ...

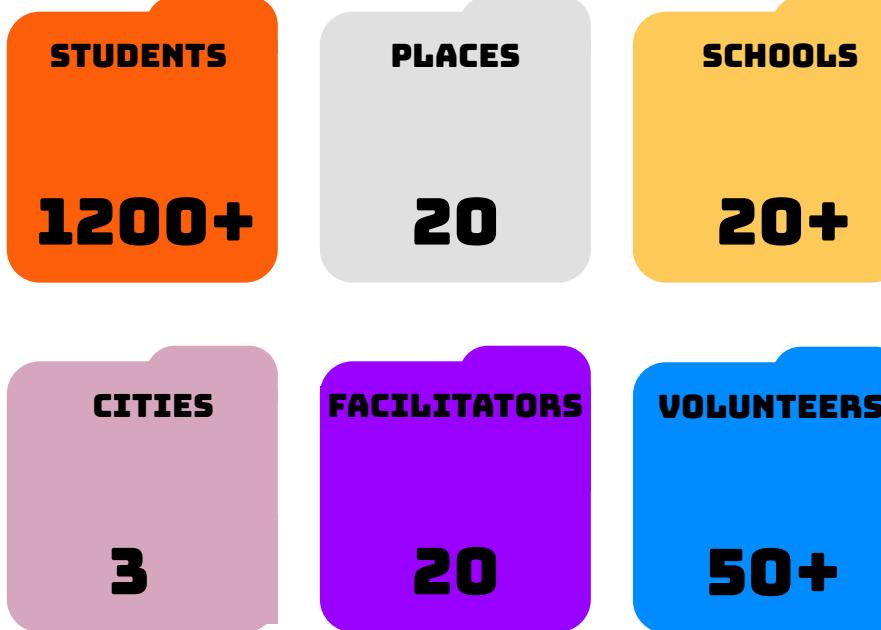
လေးစားဖွယ် အမျိုးသမီးများ ပုံပြင်စာအုပ်များ ရုံး Let Read Asia မှ ကူးယူဖော်ပြပါသည်။ ပိုမိုစားဆင် /ဖတ်ရှုလုပ်က အသုတေသနများ ပေါ်လေ့ရှိခဲ့ပါသည်။

www.letsreadasia.com တွင် အမျိုးသမီးများ ဖော်လေ့ရှိခဲ့ပါသည်။

Ebook Files 28		
Path	Size	Read
ကဗျာဆရာမ နှီးယာကာမယ်.pdf	1.15 MB	Read
ငယ်ရုပ်သော ကုသာဉ် နှီးယာမ်.pdf	3.31 MB	Read
စာရေးဆရာတစ်ခြဲလည်း ပုဂ္ဂိုလ်သာမား နာတ်ဖော်နှုန်းဆောင်.pdf	1.01 MB	Read
နှီးယာ မေမာ.pdf	1.24 MB	Read
ဆရာဝန်ဆေး နှီးယာ.pdf	5.37 MB	Read
တောင်တာ်သာမား နှုန်းဆောင်.pdf	1.77 MB	Read
နိုင်လျှို့ တရာ့ချုပ်မ. pdf	1.39 MB	Read
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နားတော် မြင်နိုင်တဲ့ ကျိုးမျိုး မျှ.pdf	1.14 MB	Read
နှင့်အေး ကျောင်းတို့ ဝတ်တတ်ချုပ်တယ်.pdf	619.23 KB	Read
မိန်ပေလေးတွေကို သနိုင်တဲ့နေ့.pdf	808.47 KB	Read
ဒီယာကာ ပညာနှင့် မနိုတာထားရှုနာ.pdf	1.08 MB	Read

# Our Project Impact

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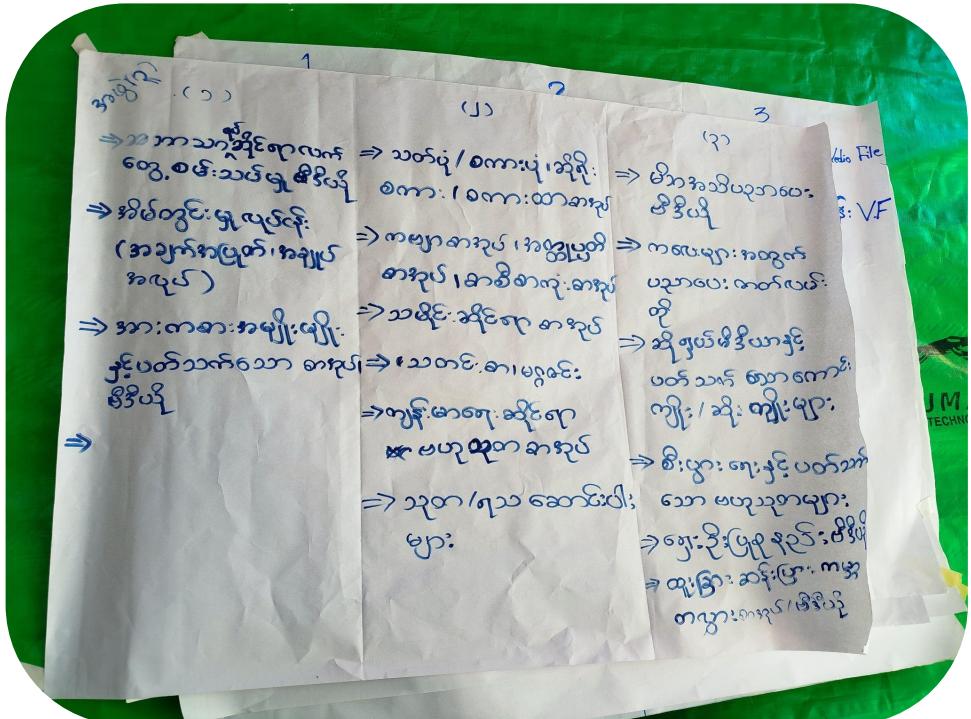


# Our Impact Highlight

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# Our Impact Highlight



# Volunteer and Facilitator Training

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# Sustainability

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- Open-source, low-cost hardware & software.
- Renewable energy (solar).
- Local volunteer & teacher training.
- Community co-management model.

# Where We're Going Next ( Sustainable Plan )

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Content localization in minority languages



Partnerships with FED & 360ed for curriculum + apps



Expand FLB offline system with more community content



Community podcasts (Karen + Burmese)



Offline AI Assistant (LLM trained on local content)



Structural Curriculum Growth:

- Karen Basic Education Courses
- Youth Empowerment & Peacebuilding programs
- English Language Series (Beginner–Intermediate)
- Grade 12 Exam Prep Toolkit

# Toward a Structured & Scalable System

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## Technical Enhancements

- Single Sign-On, interactive dashboards, quiz
- Search & filter across PDFs, videos, audios
- Offline optimization for more users

## Organizational Growth

- Community training manuals & feedback loops
- Content Governance: local review committees + bi-annual updates

**With your support, FLB will reach thousands more children, empowering them with knowledge, dignity, and hope!**

