

School of Informatics, Computing, and Cyber Systems



What is the Problem?

The main problem that the HealthLit project aims to combat is a low level of health literacy in parents of young children. Parents often have problems properly absorbing the information given to them about how to properly care for their children, and this can lead to problems. For example, According to US Pharmacist, "Annually, more than 200,000 medication errors are reported to U.S. poison-control centers. Approximately 30% of these errors involve children." This demonstrates how severe of a problem low health literacy in parents of young children. Some specific problems include:

- Parents read info but quickly forget
- Parents discard info
- Info not widely available (rural/indigenous)
- Info hard to understand

These problems can all be fixed by a mobile application that presents health information to the user while using interactive components to reinforce their learning. This is the focus of the HealthLit project.

Challenges

Mobile Application

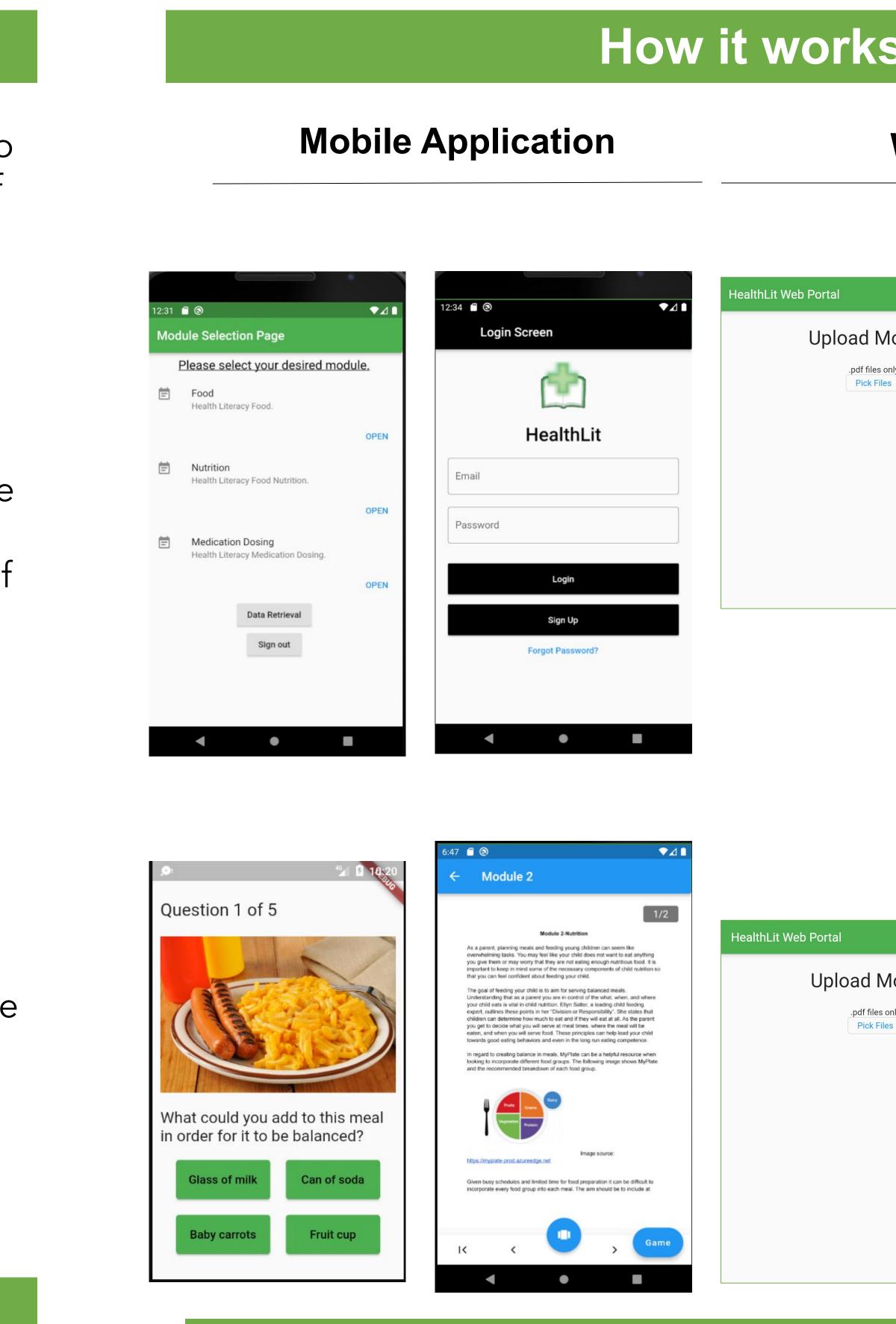
- Real-time Module loading
- Cross Platform Audio Plugin/Coding
- Screening of User Statistics
- Gamification of Modules

Web Application

- Database Uploading of PDFs
- Filtering of Users

HealthLit: Ensure your Child's Health

Team Mentor: Han Peng



Solution Overviews

Mobile Application was the main focus of our project. The mobile application allows parents to gather more information about their health literacy. It will also maximize the user's interaction and retention by including interactive games related to the module content.

The database is the midpoint between the mobile and web applications, and retains all of the user and module data. It receives and retrieves data from both applications in a seamless flow.

The web application is for administrator use and displays user information and includes the ability to upload new modules to the database.

Team: Devin O'Neal, Ahmir Hughes, Leslie Gurrola, Brendan Tjeerdsma **Client:** Dr. Olivia Lindly, Assistant Professor, Department of Health Sciences

	Aroh
	Arch
Web Application	User
	Gamified Sections
odule User Data	F
Pick Filters Search	
The Admin Selects Filters and Searches	 Mobile Application Information from I Database collects Mobile Application Web Application a Database and view the Database
	Techr
lodule User Data	Frontend: Flutter Mobile/Wek Dart
J2 Search Brendan Tjeerdsma Fernando Chad 12 brendantjeerdsma@gmail.com Leslie Gurrola Lel Jove 12 lgpics27@gmail.com	Backend: Google Firebase Authentication Firestore Data File Storage

- Web

Mobile Application:

- Social Media Login
- Account User Editing
- Multi-language support

- Web Application Features Expand Statistical Analysis User and Module Management



