Project summary. Despite a national routine immunization program in Honduras, many children in Roatán remain susceptible to vaccine-preventable diseases due to delays in, lack of access to, or refusal to accept vaccinations. The current Honduran vaccination record system is entirely paper-based, preventing rapid identification of and outreach to under-immunized or unimmunized children. Our project aims to streamline the process of recording immunization data, thus enabling clinics to focus more time on vaccination delivery.

Our application: mVax
https://github.com/mVax-app

Application features
- Patient registration
- Persistence of vaccination data in a secure database
- Data management
  - Dashboard for tracking data
  - Auto-filled PDFs of required forms for the Honduran Ministry of Health
- Multilingual support
- Data security and infrastructure
  - Continual data backups and persistence
  - Offline data storage with manual sync when network connectivity is restored

Project objectives
- Improve the efficiency of each vaccinator’s workflow
- Ensure the security and longevity of patient record data
- Evaluate the efficacy, usability, and utility of a final production-ready application

Left to right: 1. Welcome. 2. Vaccine Data Entry. 3. Vaccination due dates.

Left to right: 1. Automated email sending auto-filled form. 2. Settings showing multilingual support. 3. Vaccine administration progress.

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