

Motivation & Problem

- + Low-resource settings face challenges in achieving quality health care
- + Paper documentation systems are inefficient, inaccurate, and unscalable
- + Existing EHR solutions are too costly or convoluted

Goals & Solutions

- + Highly usable, efficient, scalable
 - Intuitive interfaces, uncluttered design
 - Modern MERN stack (MongoDB, Express, React, Node)
- + Aid provider record accuracy
 - Field validations
 - Health value thresholds
 - Centralized task dashboard
 - Drug inventory assistance
- + Protect user privacy
 - Subtle HIV+ status
 - Localized data
 - System user authorization
- + Fault tolerant
 - Server backups
 - Patient records exports

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ezehr

A User-Friendly Electronic Health Record System for Low-Resource Settings



Paper system time from nurse in Eswatini Task evaluation on two iterations of ezEHR, average of six student subject evaluations each

Overall - cut 58% of task time Estimated 3.5 hours saved daily on administrative tasks

Future Work

- + Pilot installation in Eswatini, Africa this summer
- + Open source release and modularization



