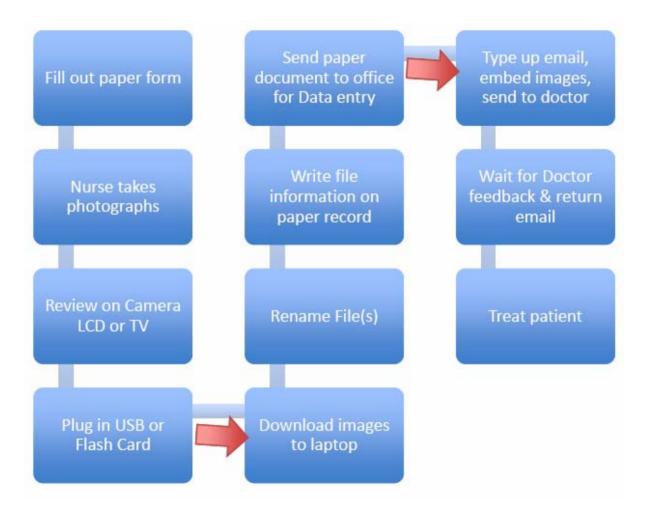


Mobile Diagnostics for Cervical Cancer Screening in Zambia Milestone 3: Initial Design

- Presentation: Clark Freifeld
- Team members: Santiago Alfaro, Sameer Hirji, Crystal Mao, Ted Chan
- Collaborators: RJ Ryan, two anonymous MIT students
- Faculty Advisor: Gari Clifford
- Local Liaison: Dan Myung



Current Process



- Rapid, easy to use: high throughput
- Scalable beyond CIDRZ clinics
- High-quality photography
- Operate under low network bandwidth, reliability
- High-quality client-side image review
- Integrate with existing systems and procedures
- Ready to deploy in short term
- Sustainable in long term



Architecture

Courtesy of OpenMRS. Used with permission.

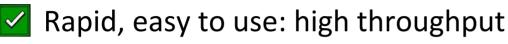




Android Solution

(
	Diagnose Bronchitis
l	
	Check all of the following which apply:
	✓ Has throat pain ✓ Has chest pain
	Has a fever
	Prev Next



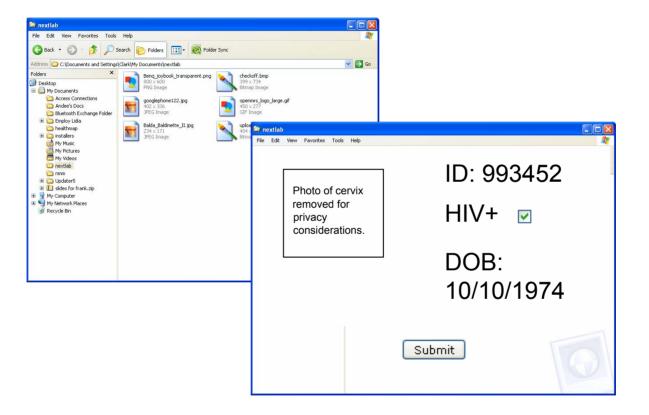


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Laptop Solution









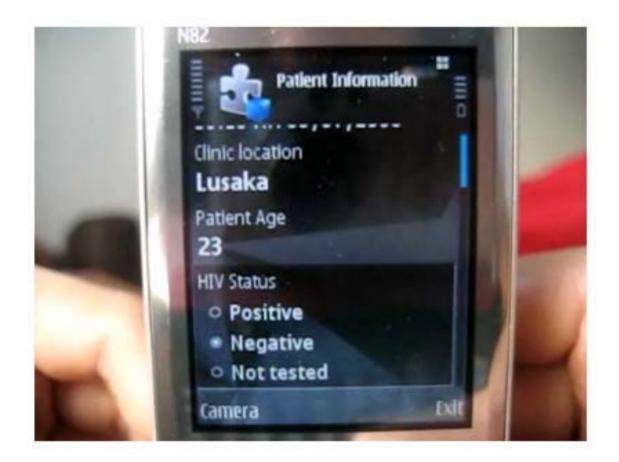
- Rapid, easy to use: high throughput
- Scalable beyond CIDRZ clinics
- 🗹 High-quality photography
- 🗹 Operate under low network bandwidth, reliability
- High-quality client-side image review \checkmark
- Integrate with existing systems and procedures
- 🗹 Ready to deploy in short term



X Sustainable in long term



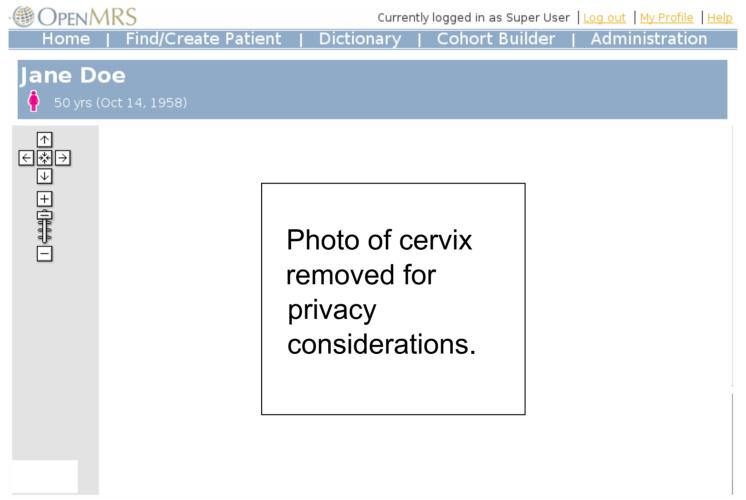
J2ME Solution



- Rapid, easy to use: high throughput
- Scalable beyond CIDRZ clinics
 - High-quality photography
 - Operate under low network bandwidth, reliability
 - High-quality client-side image review
- Integrate with existing systems and procedures
- Ready to deploy in short term
- 🗹 Sustainable in long term



OpenMRS Server



Web interface screenshots courtesy of OpenMRS. Used with permission.

- Rapid, easy to use: high throughput
- Scalable beyond CIDRZ clinics
- High-quality photography \checkmark
- Operate under low network bandwidth, reliability
- High-quality image review



- 🔀 🗹 Integrate with existing systems and procedures
 - Ready to deploy in short term



🗹 Sustainable in long term



Conclusion

Current focus is on Android + OpenMRS

 Possibility for laptop solution + J2ME improvements MAS.965 / 6.976 / ES.S06 NextLab I: Designing Mobile Technologies for the Next Billion Users Fall 2008

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