

ALL WALES SEPSIS STUDY

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Sepsis Study 2014

Sepsis Study 2014

June 18th 2014

80 Medical students from years 1-5

Collecting data on prevalence of sepsis

3 shifts over 24 hours

4 Acute hospitals in SE Wales

Study previously presented at RRAILS

Problems Encountered

Student understanding of protocol

Data accuracy

Security of paper forms

Duplicate recruitment

Data entry and analysis

Wards to cover

Health board policies

Sepsis Study 2015

Sepsis Study 2015

All wales study

Changes to recruitment

Improved training for students

Additional resources available

Sepsis Study 2015

Study date: June 17th 2015

18 hospitals in Wales

300 students needed

Expanded support structure

Digital Data Collection

WDDCP

Welsh Digital Data Collection Platform

WDDCP Explanation

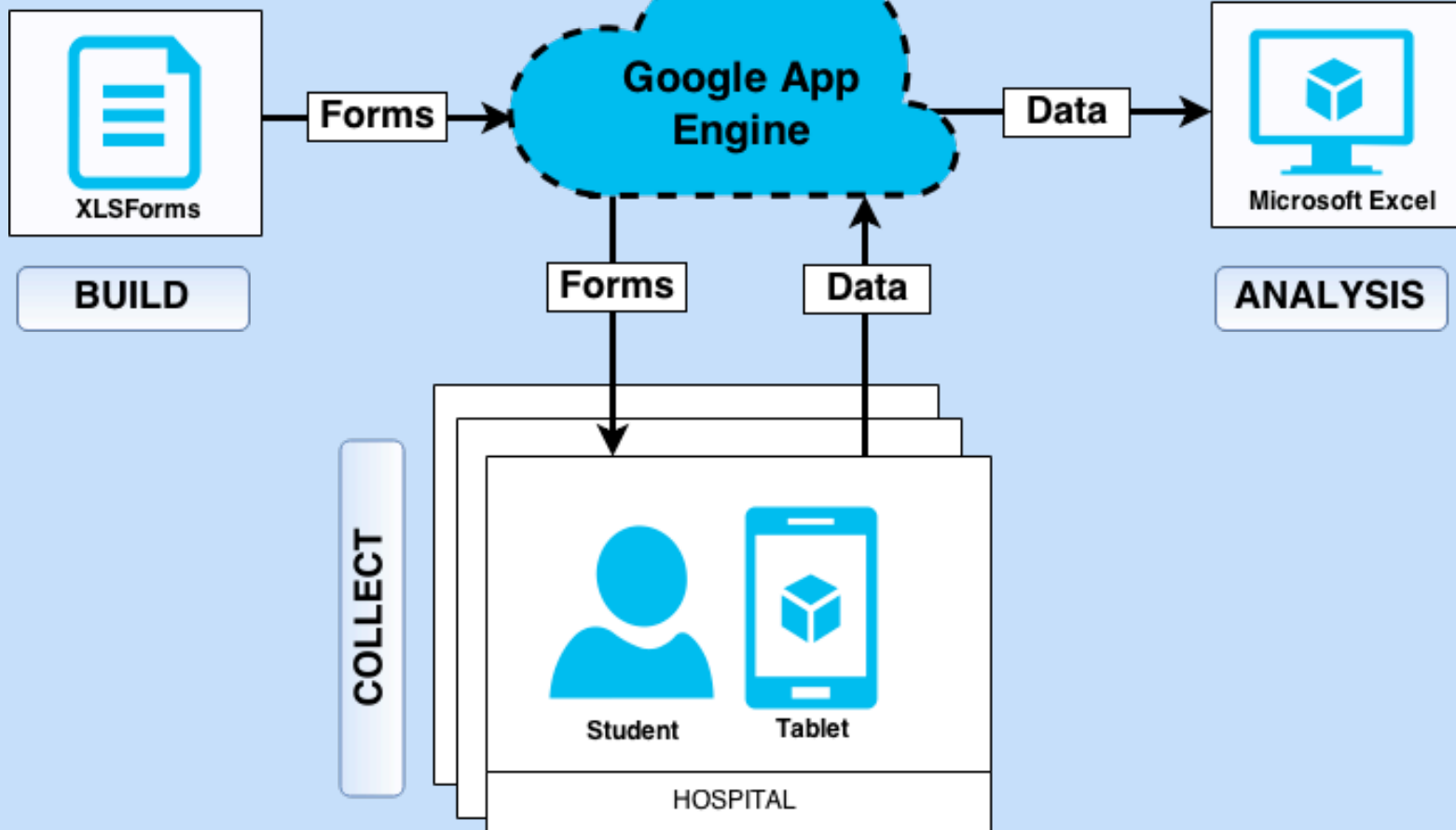
Data collection 'framework' - OpenDataKit

Device - Android Tablet

Data Collection Form - Custom Design for 2015

Data Storage Server - Google App Engine

AGGREGATION



Security Features

Data Security:

Storage - RSA-2048 Encryption

Transfer - SSL (Secure Sockets Layer)

Device Security:

Users: Limited Access Accounts

Remote: Cerberus App

Costs & Battery

Device: Tesco Hudl 2 - £129

Cerberus Security: 2EUR / device

Software: OpenDataKit - Free

Google AppEngine - Free

Battery - 8 hours full usage. Need recharging

Advantages

Improved data accuracy

Improved security

Faster cleanup and analysis

Can collect richer quality data

Easy modifications / updates

Offline data collection

WDDCP Demonstration

- **OpenDataKit App**
- **Data Collection Form**
- **User Accounts & Security**

Future Development

Will be made available to Welsh researchers after study

Cardiff University Research Society (CUREs) will manage devices and provide support

Contact WDDCP@Cardiff.ac.uk to find out more about deployment

Questions

Any questions?

Contact WDDCP@Cardiff.ac.uk

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