



# **NHS Wales Injectable Medicines Guide Android application**

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## **PROJECT AIM**

To produce an Android application to aid NHS staff in prescribing injectable medicines. This project was provided by the software alliance wales scheme.

## **PROJECT FEATURES**

- Staff will login using their NHS credentials
- Database of drugs is downloaded for offline use
- Be able to browse and search for available drugs
  - Will be able to view a monograph of a drug
- Be able to calculate dosage requirements for patients
  - Ability to calculate infusion rates for patients



## TECHNICAL ASPECTS

- Downloading the large drug database to a mobile device is a complex task
- I have used Robospice library to allow me to carry out the download as a background service
- Test driven development has been used throughout due to the applications nature, bugs in the system could be vatal for patients.
- Had to work with NHS to fix bugs in provided XML
- All data is stored inside a SQLite database
- Data provided is confidential and therefore must be secured appropriately

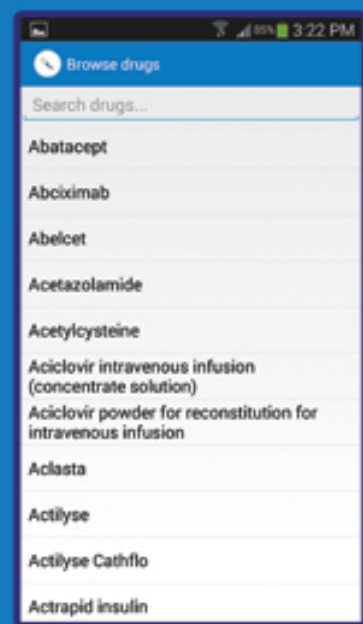
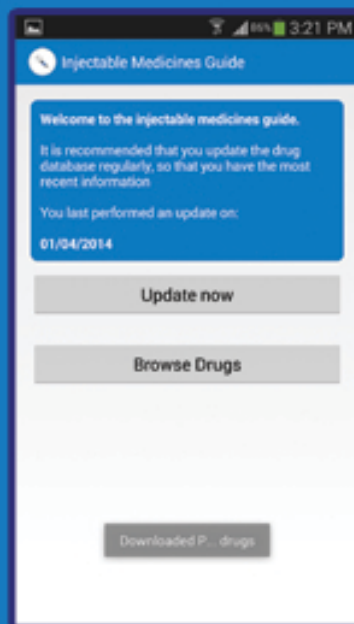
## REMAINING TASKS

- To complete the view drug page
- To add the calculation prototype to the view drug page
- Test the system against the test specification
- Provide system to the NHS for testing
- Fix any bugs found during testing phase
- Write the final report
- Demonstrate the application to the markers.

# PROJECT PROGRESS SO FAR

- Learnt Android
- Outline, functional requirements and design specifications
- Worked with NHS to improve their API
- Prototypes for major functional parts complete
- Made major progress on piecing together the final app
- User can login, download full drugs list and browse drugs

## SCREENSHOTS



# MOCKUPS OF REMAINING PAGES



## FUTURE PLANS

- Allow the layout of the provided data be set out in an XML file, this has been requested by the NHS so that they can produce multiple apps of similar content but varying databases.
- Allow for an online mode, where the database doesn't need to be downloaded before hand.
- Be able to select all medication that a patient is being prescribed and check for any conflicting medication

