A new IT solution for an old system

Matthew Jones
Clinical System Manager

Suddenly Rex realised that this was a new trick, but he was an old dog....
Who we are

• Renal unit serves a population of around 350,000
• 26 bed Renal unit
• 140 on HD
• Proton in use since 1995 (System manager same vintage)
• Proton also used by other specialties such as Dieticians, MS and Parkinson
The Tool Box

- Proton running on a Linux Box
  - Server is 5 years old 2Gb RAM
  - Has sendmail – email – allows reports to be emailed
- Xampp Stack
  - Apache MySQL PHP Perl
- Wiki software
Laying out the components

- Each Data type can be rendered in HTML
  - Code items → Drop down boxes, Date Items → Java script Calendars
  - Size and caption taken from item Spec
  - Mandatory and Calculated items can be colour coded
- Screen data can be read
- Menu Structure
- The HTML rendering allows hidden data to passed back that allows UPDT files to be made.
- All the donkey work is done by Quark Simples!
0000001 01.05.1940 patient PATIENT SOU THE ND01

2 Shrimpers Lane, LEIGH ON SEA, ESSEX, SS9 4HR

Patient Demographics

Hospital Number: 0000001
NHS No. Verification Status: -
IDENTITY: PATIENT
Forename: patient
Title: Mr
Sex: Male
Date of Birth: 01.05.1940
Age (calculated from DoB): 61.0
Hospital Status: Transient
Consultant: CARMICHAEL DAVID
NHS Number: SOUTHEND
Link to GP: ADEY
Primary Care Nurse: JONES MATTHEW
Address line 1: 2 Shrimpers Lane
Address line 2: LEIGH ON SEA
Address line 3: ESSEX
Address line 4: 
Postcode: SS9 4HR
Renal Diagnosis

Renal Diagnosis: Pyelonephritis/Interstitial nephritis - cause not spec

Other diagnosis 1: big ears
Other diagnosis 2: ischaemic nephropathy
Other diagnosis 3: thid is a test
Other diagnosis 4: and another test
Other diagnosis 5: Goodness me this is a 5th one
Other diagnosis 6: fgsdfgsdf

Start Date  Stop Date  Medication  Dose  Units Frequency Route  MD
08.12.09  08.12.09  AMOXICILLIN 500mg ca  1000.000 mg  IV  CONSULTANT consultant
28.10.09  28.10.09  ADCAL 600mg chewable 500.000 mcg  od  Oral  KUMAR Sarietha
28.06.01  28.06.01  *EPREX 10,000iu/1mL  5.000  PC  Oral  CONSULTANT consultant
28.06.01  28.06.01  EPOETIN ALFA 4000iu/  5.000  PC  Oral  CONSULTANT consultant

Previos Drugs (Stopped)

1-5 out of 5  Clinic Observations

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<tr>
<th>Date</th>
<th>Source of Reading</th>
<th>BP</th>
<th>Weight (kg)</th>
<th>Height (cm)</th>
<th>Body mass index (kg/m2)</th>
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Adding to the tool Box

- Graphing using PHPlot
- DokuWiki for context sensitive help documentation
- File upload – importing data to proton
Demo Time

- Documentation
- Proton
Conclusions and Questions

- Web 2.0 tools allow proton to be used in a new way
- Tools build up on another