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Barnsley Assistive Technology Team

Maavis@School

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Developer - Full Measure, Consultant - OSS Watch

Contents

- People
- Background
- Development and Technology
- Maavis@school trials
- Future & Scope

Maavis@School :: People

- **University of Sheffield**
 - co-ordination and project management
- **Barnsley AT Team**
 - user involvement and assistive technology
- **FullMeasure**
 - assistive technology development
- **OSS Watch**
 - open source software advisory service



The
University
Of
Sheffield.

Barnsley Hospital 
NHS Foundation Trust



IT without knowing about IT

- **Moderated Access to Audio Visual Services**
- i.e: a simplified computer interface
- Developed to become a platform, be flexible and sustainable (more later)

Maavis@School :: Motivation

- Potential population excluded from the benefits of information technology
- People with dementia; older people; children with special educational needs.
- Design challenge : create more intuitive access to IT services
- Research challenge: can we show a benefit to use of this technology?

Maavis@School :: Background

- Maavis emerged from a previous small project
 - provision of IT within residential care homes
 - Sheffield's largest residential care home
 - small scoping project in school
- Study
 - research into benefits of provision of systems
 - usability study into design of system

Maavis@School :: Requirements and technology choice

- Communications + media = web
- Easily acquired skills, common = web
- Without internet + privileges = rich client
- Open source platform = plenty of choice
- All of above = **Mozilla** as used in Firefox
 - Very well tested
 - Great community, cross platform
 - Some experience with Jambu



Maavis@School :: Development and Technology

- Designed for multiple engagement levels
 - User – simple UI
 - Non technical facilitator – copy files, UI
 - Technical facilitator – create/edit 'web pages'
 - Core developer – extend platform
 - Future - Plug-ins extend community
- Mozilla XUL platform + VLC media player
- Outfox server – provides more flexibility – Skype





SS WatchMaavis@School ::

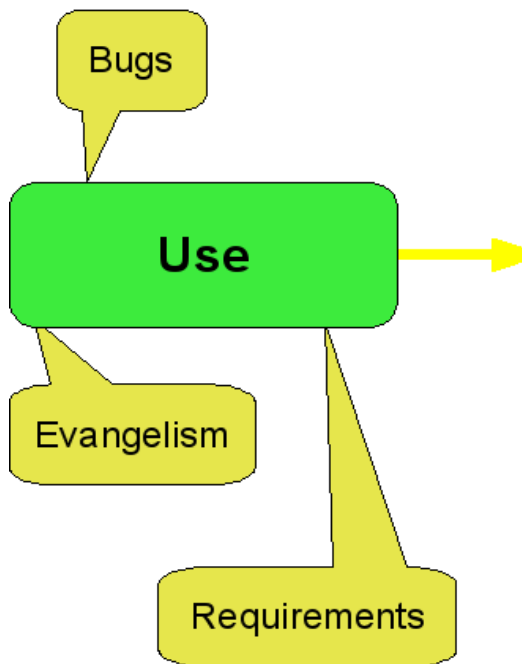
Open Source Development Model

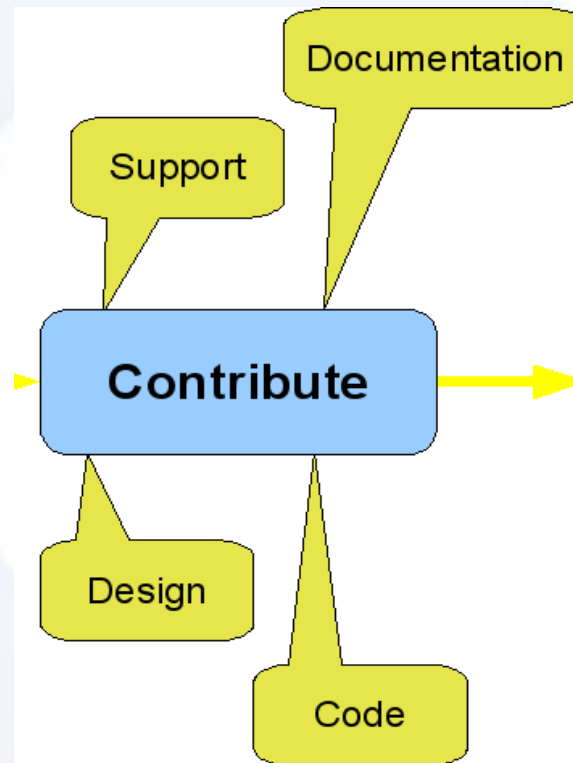
- open source, open development
 - Low cost to users
 - Community of users and developers
 - Innovation & sustainability
 - Exploitation - regional development
 - “Freedom to discuss plans with anyone”
- Development forge - open access



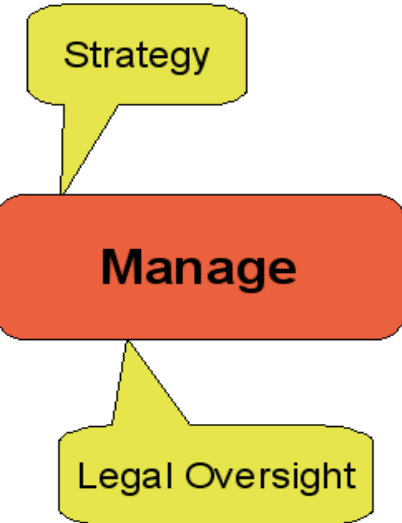
JISC

SS Watch



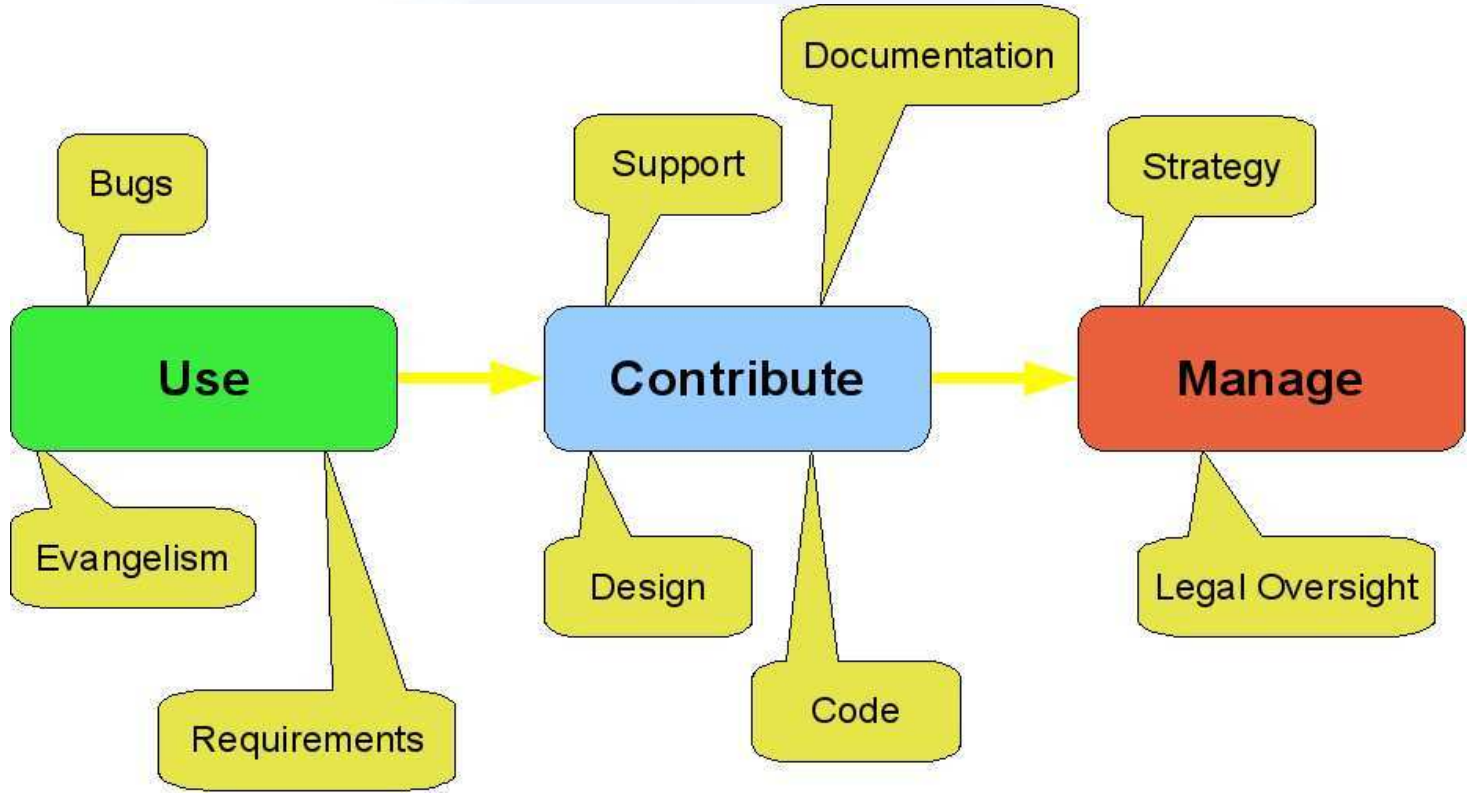


SS Watch



JISC

OSS Watch





<http://oss-watch.ac.uk>



JISC

Maavis@School :: Study

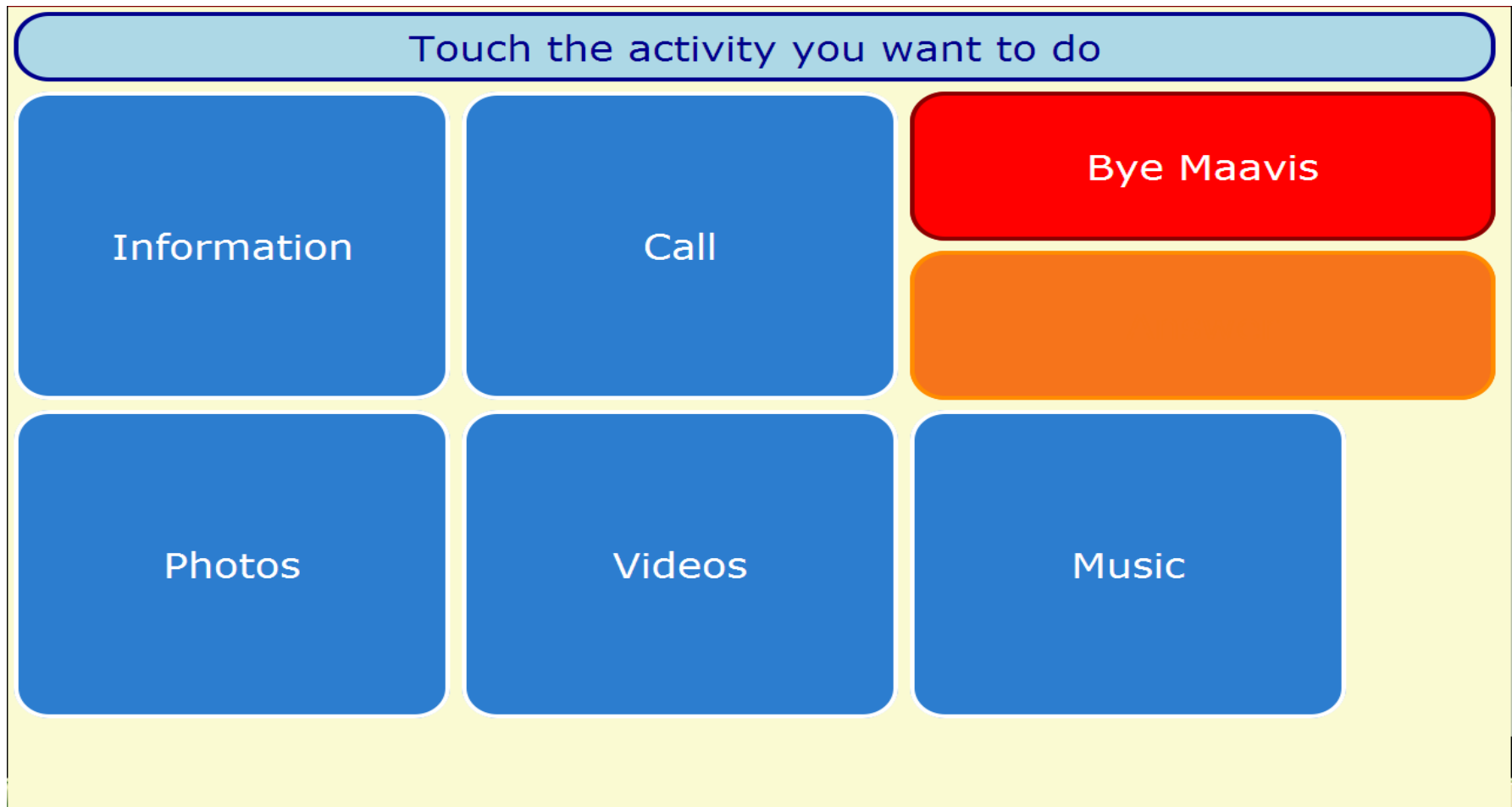
- Small study
 - 3 special schools in S Yorkshire, term long trial
- user requirements scoping exercise
 - software development
- Trial:
 - Provision of system to children meeting recruitment criteria in 3 special schools

- Measuring impact of provision (and improved independent access to IT)
 - Qualitative data from teachers, students
 - Qualitative data from analysis of video evidence
 - Quantitative data from pre&post intervention assessments

Maavis@School :: User Requirements & Implementation

- Features of Maavis
- New features specific to SEN
 - Switch access with scanning
 - Simple Log-in pages

Maavis@School :: Top level screen



Maavis@School :: Photo collection chooser

Touch the album you want to look at



Cats and Dogs



Events

Other things to do



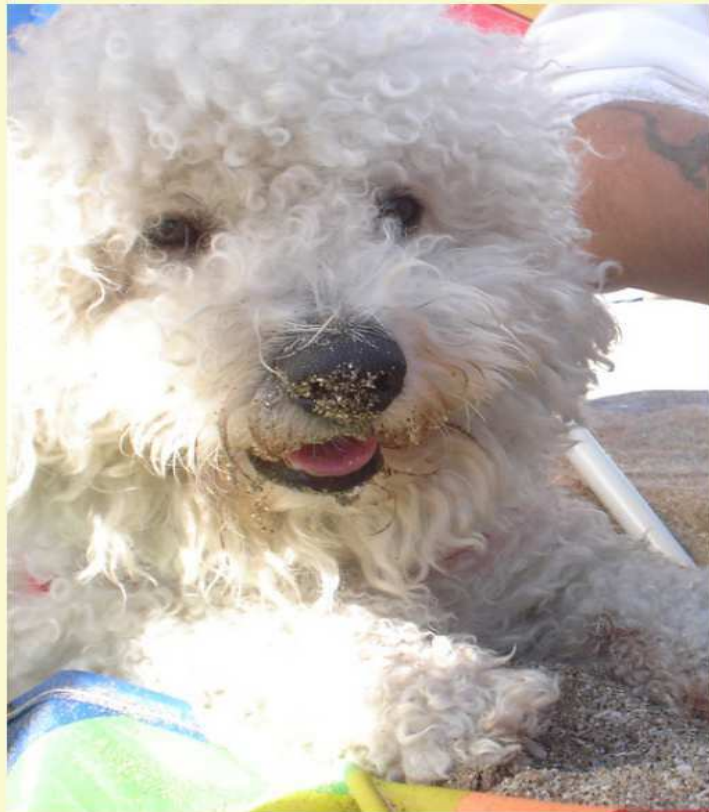
Flowers



Places

Maavis@School :: Photo slideshow viewer

Watch Slideshow



Change Photos



Play



Back



Next

Maavis@School :: Info (web) viewer

Look at or read things

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1 Choose A-Z or 2 Answer YES/NO 3 Follow advice

Change Info

Up

Down

Left **Right**

Smaller **Bigger** **Previous page**

Maavis@School :: Potential

- Project team believe Maavis has great potential
 - Use in many 'sectors' to provide accessibility for people otherwise excluded from IT
- Unique in several senses
 - Functionality
 - Platform choice and flexibility
 - Evidence based
 - Can be used as a platform for other things, e.g. tele-health

- Several other bids using Maavis
 - Nominet – internet delivery of content
 - Knowledge Transfer – deployment and training resources within FE
 - Exploitation bids

Maavis@School :: Summary

- Maavis is designed to simplify access to IT
- Potential across a number of applications
- Small study looking at benefits within special schools
- Unique and flexible architecture and technology
- Ripe for further potential
- Open Source

**Maavis@School::
User Requirements & Implementation**

<http://maavis.fullmeasure.co.uk>