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Barnsley Assistive Technology Team

Maavis@School

Simon Judge

Senior Clinical Scientist, Barnsley Assistive Technology Team

Steve Lee

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
NHS Foundation Trust

OSS Watch

Maavis@School :: Objective

IT without knowing about IT

- **M**oderated **A**ccess to **A**udio **V**isual **S**ervices
- 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

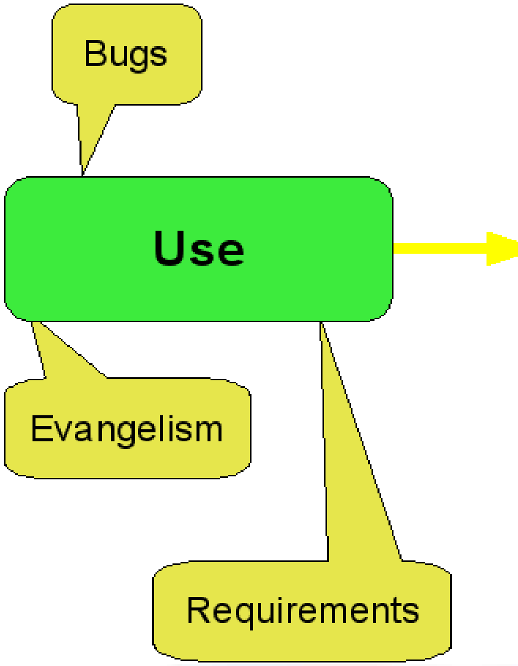
- Communications + media = web
- Easily acquired skills, common = web
- Without internet + privileges = rich client
- Open source platform = plenty of choice
- All of above = **Mozilla** as used in Firefox
  - Very well tested
  - Great community, cross platform
  - Some experience with Jambu

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

Maavis@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

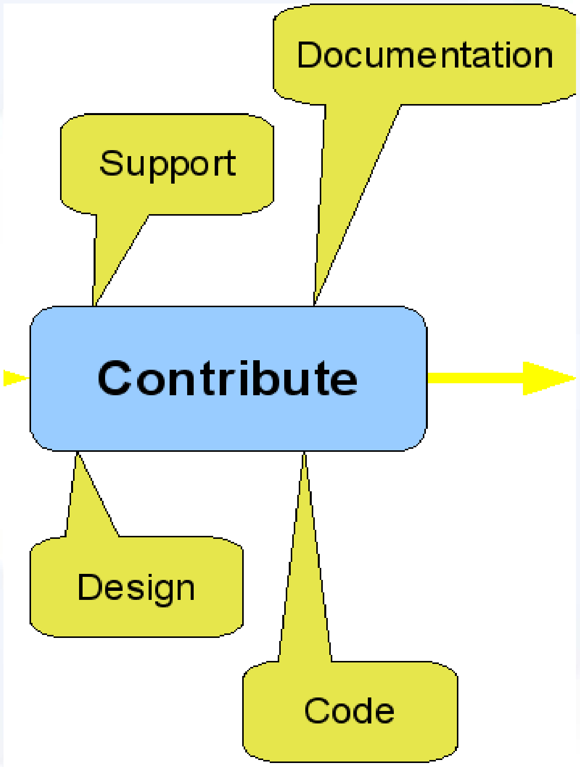


Bugs

Use

Evangelism

Requirements



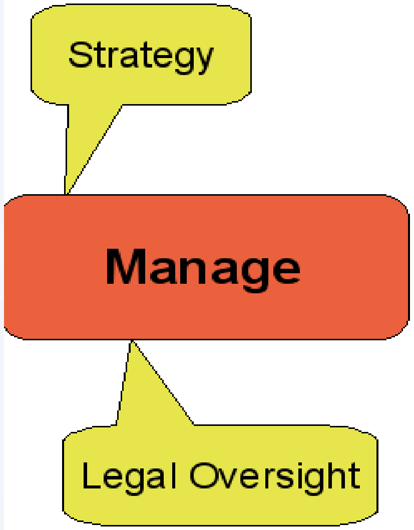
Documentation

Support

Contribute

Design

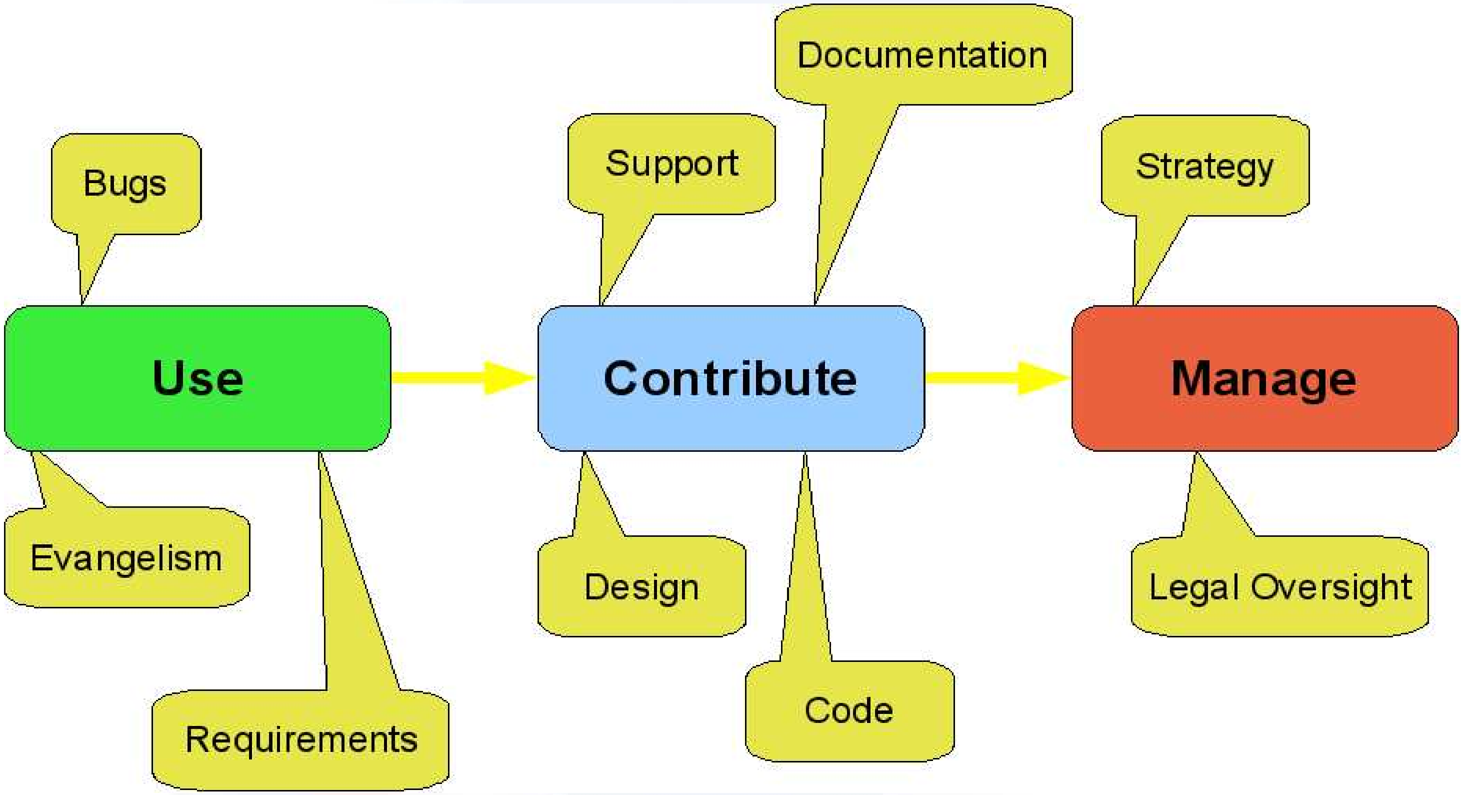
Code



Strategy

Manage

Legal Oversight



Use → Contribute → Manage

Use: Bugs, Evangelism, Requirements

Contribute: Support, Documentation, Design, Code

Manage: Strategy, Legal Oversight

http://oss-watch.ac.uk

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

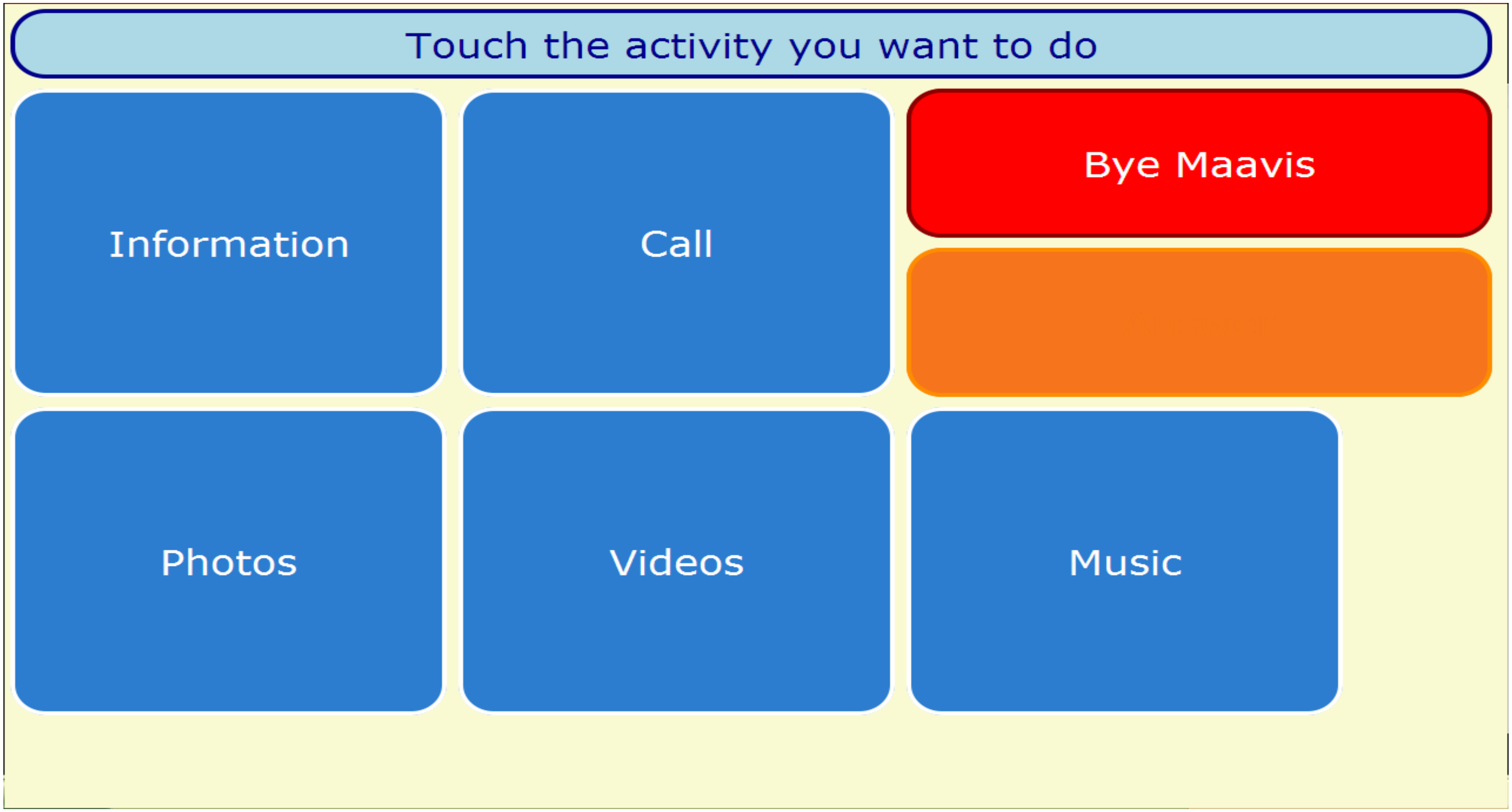
Maavis@School :: Study

- 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

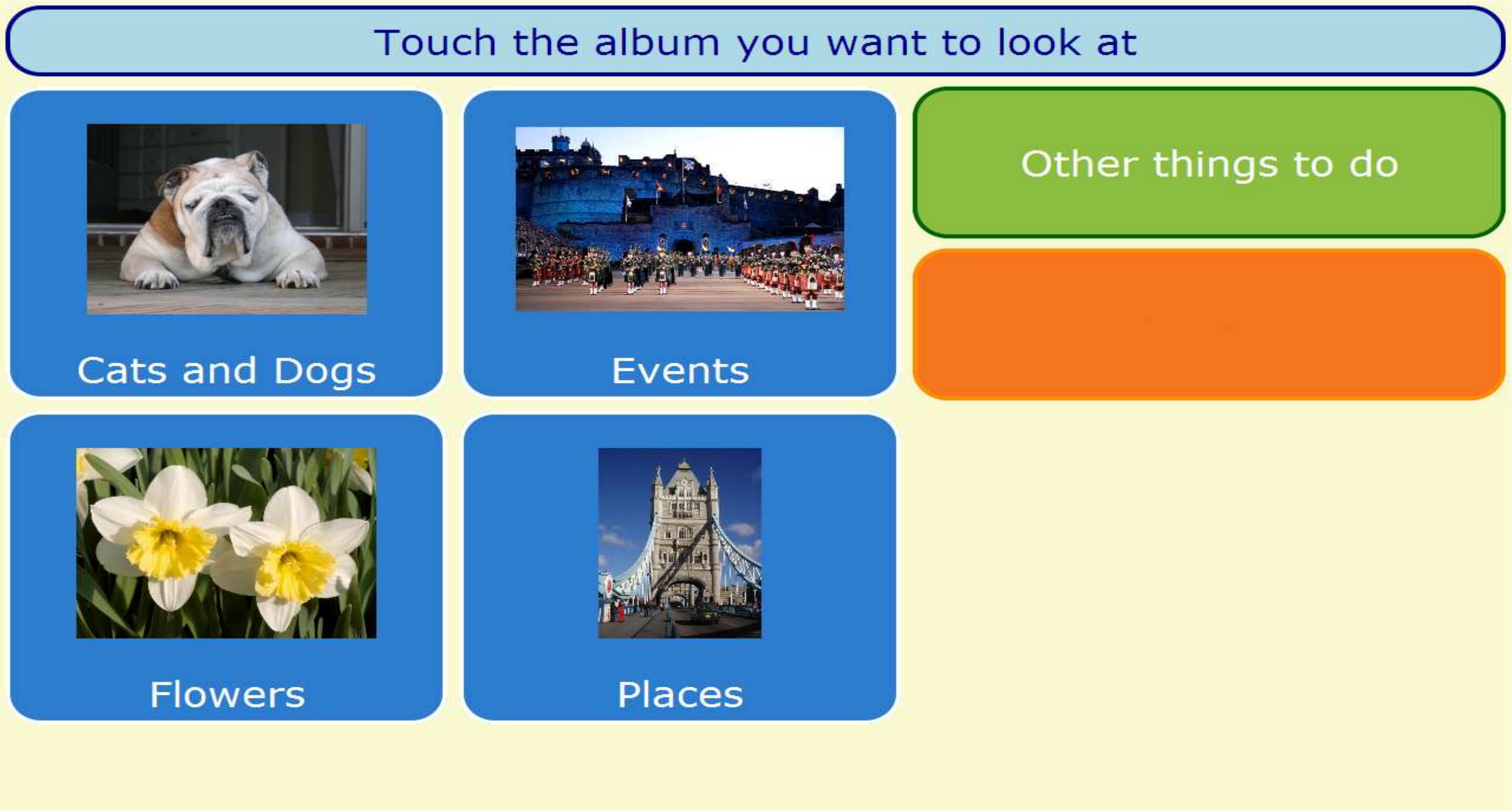
Maavis@School ::
Top level screen



Touch the activity you want to do

Information
Call
Bye Maavis
Photos
Videos
Music

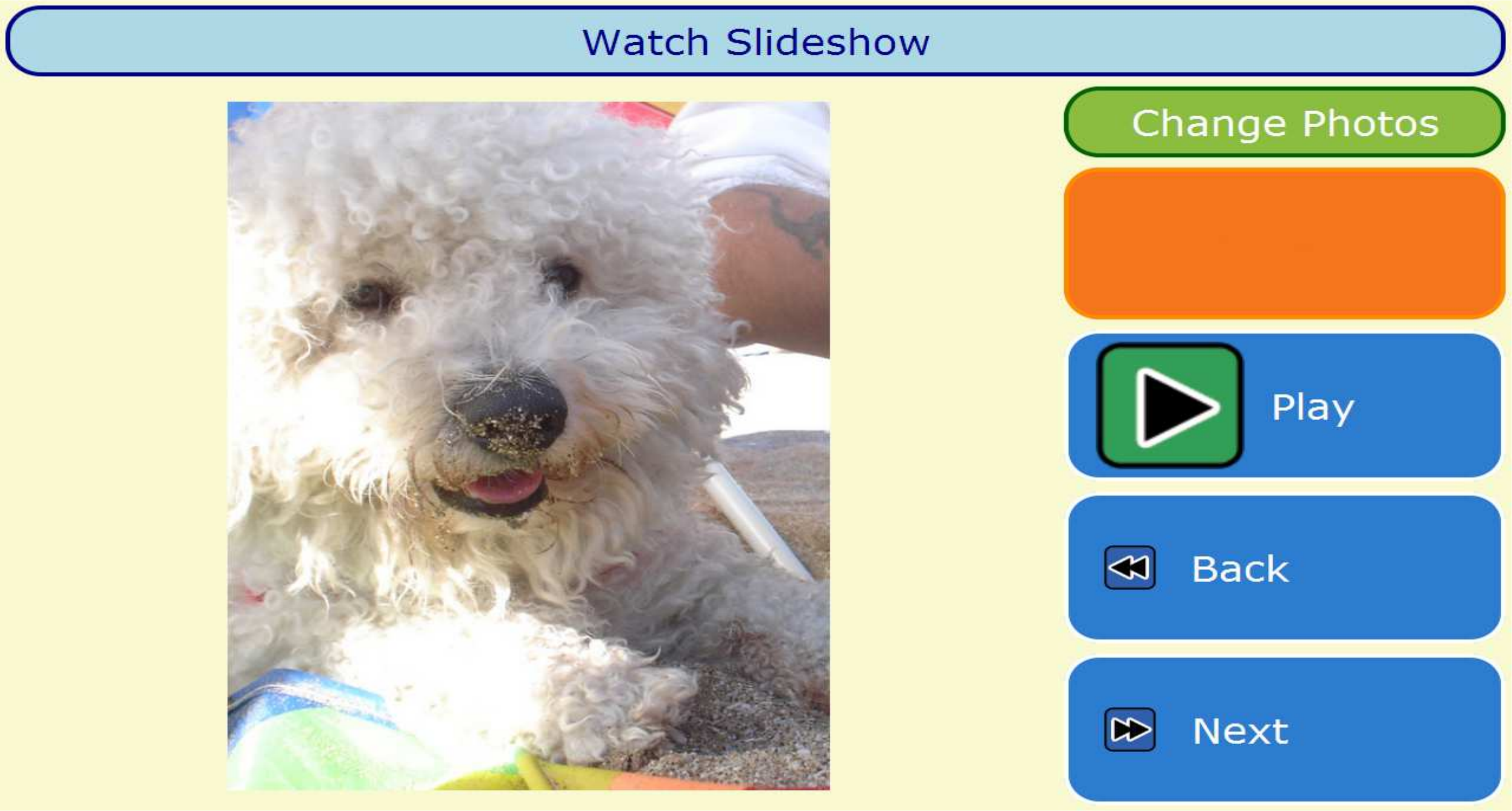
Maavis@School ::
Photo collection chooser



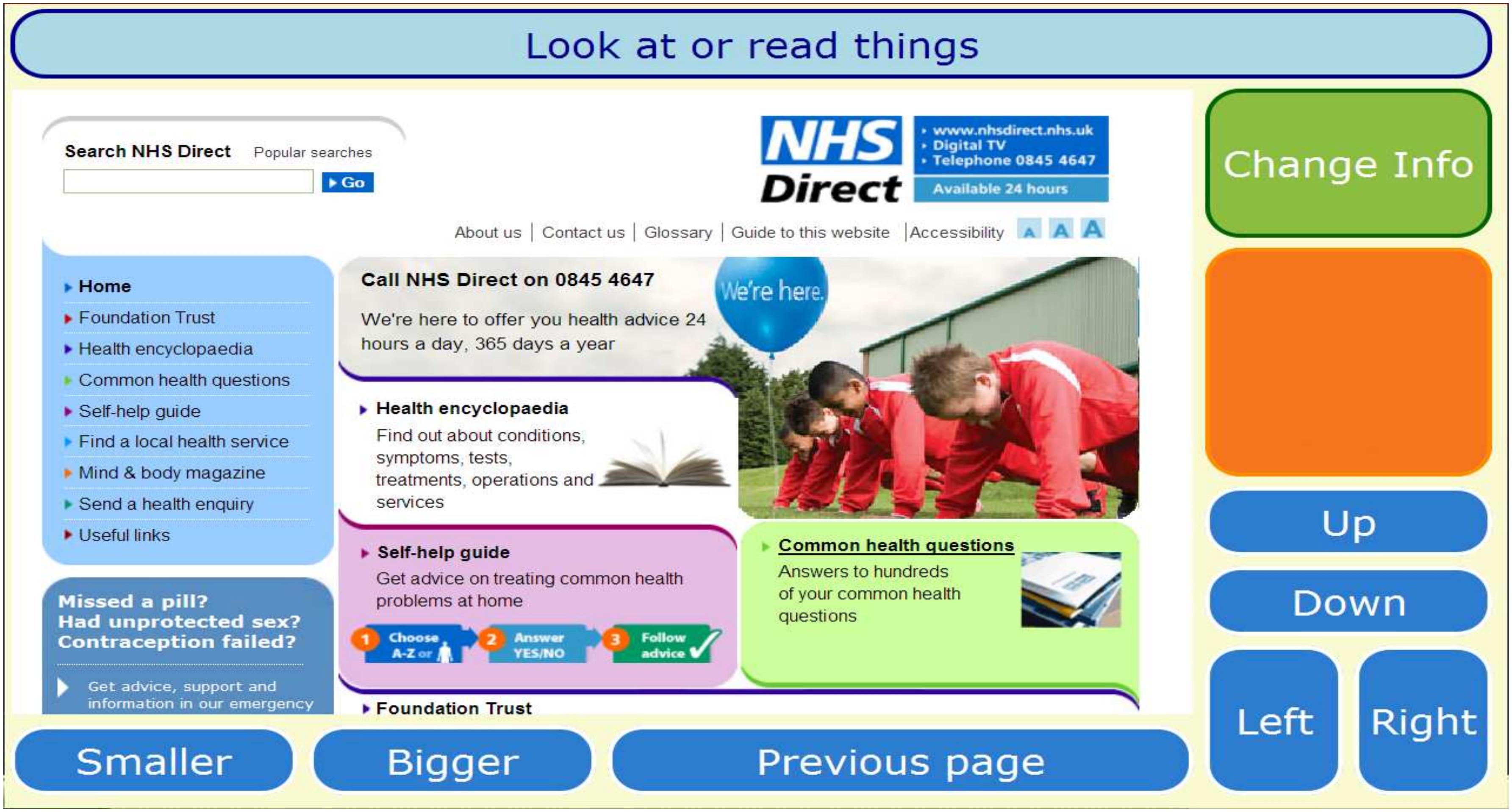
Touch the album you want to look at

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
Change Info
Up
Down
Left
Right
Smaller
Bigger
Previous page
Search NHS Direct
Popular searches
Go
NHS Direct
www.nhsdirect.nhs.uk
Digital TV
Telephone 0845 4647
Available 24 hours
About us | Contact us | Glossary | Guide to this website | Accessibility
A A A
Home
Foundation Trust
Health encyclopaedia
Common health questions
Self-help guide
Find a local health service
Mind & body magazine
Send a health enquiry
Useful links
We're here.
Choose A-Z or
Answer YES/NO
Follow advice

Call NHS Direct on 0845 4647

We're here to offer you health advice 24 hours a day, 365 days a year

Health encyclopaedia

Find out about conditions, symptoms, tests, treatments, operations and services

Self-help guide

Get advice on treating common health problems at home

Common health questions

Answers to hundreds of your common health questions

Missed a pill? Had unprotected sex? Contraception failed?

Get advice, support and information in our emergency

Foundation Trust

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

Maavis@School :: Future Plans

- 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