DMU Hackathon

<http://www.dmu.ac.uk/research/research-faculties-and-institutes/technology/viral/hackathon-events/call-for-proposals.aspx>

<https://www.dmu.ac.uk/research/research-faculties-and-institutes/technology/viral/hackathon-events/involved-webform.aspx>

Submitted 12/10/15

Event date 11/11/15

Proposal

Forever Savvy are a social enterprise who coach adults with learning disabilities transferable work skills at two centres in Potters Marston and Bagworth. see www.foreversavvy.co.uk.

Our aim is to give our trainees purpose to their day and where possible assist them into paid employment.

The trainees experience a broad range of life skills such as land management, animal welfare, gardening and wood work. Our program aims to improve the skill set, emotional health and physical well-being of the trainees who attend.

Many of our trainees use smart phones and tablets day to day and we would like to add a Work Savvy app to these to help them learn the routines of the tasks they are set to complete their jobs successfully

Proposal Context/Background

The Work Savvy App could be based on time and motion studies. Enabling a breakdown of a job into a list of ordered tasks to be completed for example;

Removing horse manure from field;

1. Get correct tools

2. put tools in wheelbarrow (transport tools safely)

3. Go to field

4. Assess safety (PPE. weather, horses, trainee). Only continue if safe to do so.

5. Collect manure and put in wheel barrow

6. Take manure to muck trailer

7. Empty manure on floor by trailer

8. Shovel manure into trailer

9. Brush floor

10. Put tools away

This app could also time how long it takes to complete a job and then ask for a quality score at the end from a support worker. A history of performance for an individual should then be stored so that progress of performance can be monitored.

The app could them move into paid employment with the trainee to help them learn their new job. For example; one of our trainees is currently working in House Keeping at the Premier Inn and this would act as a memory jogger and motivator to him to do a great job to meet the standards of his employer.

08/11/15 Requirements discussion (AJP / AS)

Apps Compatability?

* Robust smart phone
* Adroid / MAC?
* Stand-alone usage so can be used in outdoor environment without wifi connection
* Ability to connect with web base sql dbase
* Ability to set up job flow on smart phone
* Ability to download existing job flows that have been stored on sql dbase

Dbase Driven;

* Content managed
* Link to sql dbase for future progress reporting
* Possible record structure;
  + Date and time stamp
  + Image
  + Text field for description
  + Suggested time
  + Actual time (to be recorded whilst in use)
  + Quality score
  + Spare field for future development

Flowchart;

* Show flow of app and decisions to be made;
  + Teach mode – no timing
  + Set end time only – if required only to say time out as need to break for end of day or lunch
  + Timed mode – may need a Toilet break feature for various interruptions to job flow