CG4.1 Analysis

# Background and identification of problem

## Introduction

My client is a well-known local artist and family friend named Frank Jennings. Frank is based in Hampshire. A recent article in Hampshire Life magazine describes him: <http://www.hampshire-life.co.uk/out-about/boxing_clever_with_frank_jennings_deceptive_receptacles_1_2992356>.

Frank started making box art assemblages in 1973 while studying for a Fine Art degree at Leeds Polytechnic. He moved to Hampshire in 1983 to take a full time job Lecturing at South Downs College where he became Head of the Art Department. He retired from here in 2008. Since retiring he has concentrated full time on his art work and exhibitions. He estimates that he has created around 300-400 pieces over the last 40 years, many of which are now in private collections.

When Frank originally commissioned his website he had almost zero knowledge of the internet and was poorly guided by his supplier. The result is a website that is almost impossible to manage and to navigate and from which he receives almost zero visits. As a result, he is looking for both: a new website, and also, a website ‘content management system’ (CMS).

Some of the problems with the current website are:

No content management system – to get changes made he has to send written instructions to his supplier. These are often misinterpreted and take some days to complete. Frank is not satisfied with the service provided by the current developers.

Website is not very accessible - it is only accessible in flash and is unclear what is going on.

Some essential functionality is missing.

\*\* THIS COURSEWORK ONLY COVERS THE CONTENT MANAGEMENT SYSTEM NOT THE WEBSITE \*\*

Frank would like to be able to update the content (as well as blog updates, exhibitions etc.) himself.

It takes him around a month to make a new assemblage. Frank usually has around 50 pieces of artwork for sale or exhibited at any one time. Has a blog which he would like to keep up-to-date.

## Prospective Users

The prospective users of the website are those people interested in his artwork.

The prospective users of the CMS will be Frank but in order to protect the content: two levels of access will be allowed.

1. Super user can change anything
2. Normal user can only add, modify and delete gallery items.

# Investigation and analysis

## Observation

There is no current CMS but the current website can be viewed at: www.frankjennings.net

## Interview with client

Interview with Frank Jennings (14/07/2014)

1. What role do you play?
   1. Artist, owner, operator, beneficiary of the site.
2. What is the system meant to do?
   1. To manage the content of the site, particularly the gallery items which are often “in a mess”.
3. What is the issue with the current system? Any problems?
   1. The biggest problem is that I have very7 little control over the layout and content of my own website. The entire site is written in flash so it is not accessible on some devices, as well as this the navigation of the site is not easy to follow as it is not named, it uses pictures of hands to describe the button instead. It also does not achieve the main purpose of the site very well as the artwork that is displayed is restricted to a small frame and is hard to see. There is a zoom in feature but then you have to navigate yourself around the picture. Another issue with the site is that there is no way to actually “buy” artwork. To buy a piece of artwork you have to email Frank and make a deal with him. Another problem is that when searching through the gallery, there is no quick and easy way to see if the art is for sale or not. Also there is no easy way to actually search through the gallery with a search bar, you have to simply go through page by page.
4. What are the main functions/features of the current system?
5. In what format is the current system? What data is stored?
6. Do you collect any other data than…(Your Data)?
7. Who has access to the system? How many end users/peripherals are there? What are the IT skills of the end user(s)? Hardware spec/OS.
   1. Only I need to have access to the CMS. My skills are not very high and I usually use my Apple Mac but may sometimes use a laptop.
8. How often is the system used?
   1. At the moment I make updates infrequently. I would like to use the system daily or at least weekly.
9. What security measures are there?
10. Do these need to be more secure?
11. What format is the data received in?
12. What are the main processes?
13. Hows does data need to be entered?
14. What kind of data being entered and stored?
    1. Images and text.
15. Are there any time consuming tasks?
    1. Apart from creating the artwork. It takes me some time to get the images ready to be sent for adding to the site. And remembering the differences in the thumbnails and main pictures.
16. How frequently do you make backups and how are they stored?
17. What are the main calculations that need to be carried out? (Processes)
    1. Convert the image files and the text content and any formatting data into a form suitable to be used by the website.
18. What kind of reports need to be carried out?
19. What data needs to be stored about the persons using the system?
20. What other data is required?
21. What fields need to be filled out on data entry?
22. How important is the visual design of the system?
    1. CMS – not very important as this is an internal tool.
    2. Website – very important.

Change to ---

**Basic:**

1. Who are you? 🡪 Artist and former head of art department at South Downs College.
2. What role do you play?

**Design:**

1. What is the main colour scheme for the background of the menus, forms, reports (etc.)?
2. What font type and size is used for the menus, forms, reports (etc.)?
3. Do you know if there are any colour blind employees?
4. What colour clashes do you want to be avoided?
   1. Do you have a logo, or does one need to be made?
5. And where does the logo want to be placed?
6. Are any images going to be implement and if so where can i access them from?
7. How important is the visual design of the system?

**Current system:**

1. What is the system meant to do? 🡪
   1. What are its functions?
   2. What are its features?
2. What is the issue with the current system?
3. In what format is the current system?
4. What data needs to be collected?
   1. If so how is it stored?
   2. What format is the data received in?
   3. Hows does data need to be entered?
   4. What kind of data being entered and stored?
   5. What data needs to be stored about the persons using the system?
   6. What other data is required?
   7. What fields need to be filled out on data entry?
5. Who has access to the system?
   1. What permissions do they have?
   2. How many end users are there (roughly)?
   3. What kind of IT skills do the end users have?
6. What sort of peripherals are there?
7. Hardware spec/OS.
8. How often is the system used?
9. What security measures are there?
   1. If so do these need to be more secure?
10. What are the main processes?
    1. What are the main calculations that need to be carried out?
11. Are there any time consuming tasks?
12. How frequently do you make backups and how are they stored?
13. What kind of reports need to be carried out?

## Example documents from user

Blogs

Photos

News articles

Details of Events

Videos

(Existing system documentation is not available from the current developers)

Site Map

## Questionnaires

Due to Frank being a soul trader, a questionnaire is not needed as it will be quicker, easier and more efficient to simply ask him the questions in the interview.

Questionnaire

**Design:**

1. What colour clashes do you want to be avoided?
   1. Yellow & Pink
   2. Red & Green
   3. Orange & Purple
   4. Green & Grey
   5. Other        ……………………………………………………………………………………………
2. Do you have a logo?
   1. Yes
   2. No
   3. I don’t know
3. If not, does one need to be made?
   1. Yes
   2. No
   3. I don’t know

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1. Where does the logo want to be placed?
   1. Top Left
   2. Top Right
   3. Bottom Left
   4. Bottom Right
   5. Top Middle

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1. How important is the visual design of the system? (1-5, 1=low 5=high)
   1. 1
   2. 2
   3. 3
   4. 4
   5. 5

**Forms:**

1. What do you want the main colour scheme for the background of the forms?
   1. Light Grey..
   2. Light Blue..
   3. White..
   4. Beige..
   5. Other        ……………………………………………………………………………………………

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1. What font type do you want to be used for the forms?
   1. Arial
   2. Times new roman
   3. Courier
   4. Verdana
   5. Other        ……………………………………………………………………………………………

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1. What font size do you want to be used for the forms?
   1. 12
   2. 14
   3. 16
   4. 18
   5. Other        ……………………………………………………………………………………………

**Reports:**

1. What do you want the main colour scheme for the background of the reports?
   1. Light Grey..
   2. Light Blue..
   3. White..
   4. Beige..
   5. Other        ……………………………………………………………………………………………

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1. What font type do you want to be used for the reports?
   1. Arial
   2. Times new roman
   3. Courier
   4. Verdana
   5. Other        ……………………………………………………………………………………………
2. What font size do you want to be used for the reports?
   1. 12
   2. 14
   3. 16
   4. 18
   5. Other        ……………………………………………………………………………………………

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**Personel**

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1. Do you know if there are any colour blind employees?
   1. Yes
   2. No
   3. I don’t know

## Existing system

<http://homepage.ntlworld.com/frank.jennings2/frankdotnet12.html>

Site Map:

* About
* Applause
  + Links out to external pdf
* Exhibitions
  + Links out to external pdf
* Gallery
  + “Acquisition opportunity” 🡺 Leads to email
* Links
* Contact Us 🡺 Leads straight to email
* Video
  + Link to email for video maker

## DFD (Existing system)

Do On Paper First

## Limitations of the current system

One of the limitations is that Frank isn’t able to easily update the site and so none of his new artwork is on there. As well as this, although the site contains a “***shop”***, there is no actual functionality for users to buy any work, the navigation on the site is completely meaningless to anyone who goes on, and the entire site is built in flash and therefore can’t be accessed by some devices.

# Problem Definition

## Aims

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| --- | --- | --- | --- |
| Aim | TableName | Brief Description | New Table |
| A1 | tblArtwork | Holds the details of up to 100 pieces of artwork | Yes |
| A2 | tblArtworkPics | Holds 1 thumbnail and at least 1 full sized image of each piece of artwork | Yes |
| A3 | tblExhibitions | Holds details of any past and future exhibitions | Yes |
| A4 | tblForSale | Holds the sales information for all pieces of artwork that are for sale | Yes |
| A5 | tblUser | Holds the login and personal information for all users of the system | Yes |

## Limitations of the new system

# Objectives

## Data tables

|  |  |  |  |
| --- | --- | --- | --- |
| Task | Table | Fields | Aims |
| 1 | tblArtwork |  |  |
| 2 | tblArtworkPics | PicID  PicFileName  PicSource  PicFileType  Resolution  ArworkID  ImageType  ImageOLE |  |
| 3 | tblExhibitions |  |  |
| 4 | tblForSale | SaleID  ArtworkID  ArtworkName  ArtworkType  Price |  |
| 5 | tblUser |  |  |

## Outputs

|  |  |  |  |
| --- | --- | --- | --- |
| Task | Name | Data Shown | AIms |
|  |  |  |  |
|  |  |  |  |

## Processing tasks

## User interface

## Validations

## Quantitative performance considerations

## Qualitative evaluation criteria

## Data security and integrity

# Error log

## Error log

## Error log evidence