Infographics - Migrating from paper methods to electronic using an enterprise system – Jenzabar EX
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SUNY Sullivan's Registrar's Office

Paper makeshift instructors – Band-Aids

Infographics design
The Research Objective

• Will this work for people who are not fully tech savvy?
• How do we overcome some of the obstacles that are associated with paper communications?
• Will students, faculty and staff prefer this method over the band-aid fixes of pre COVID?
• Theories behind streamlining data collection for future use, is it expandable and upgradable?
Literature Review

**Jenzabar Internet Campus Solutions (JICS) - Paperless to digital - using e-forms**

aka “Form Flow”

**Wikipedia - Three-click-rule**

**Clifton et al - Infographic Representation - what is attractive and usable**

**Dhumne - Going paperless is more efficient - streamlined processes**

**Southeastern University in Central Florida - Identify gaps in data communications along with learning.**

**German Jordanian University (GJU) - developed in-house to allow students manage their academic and financial information as well as register for courses online during the registration period.**
Sample Generic Portal

Portals impact all areas from advising to course registration.

The system becomes source knowledge-based on data.

Figure 1. (a) A snapshot of the MyGIU student view, (b) use case diagram for the MyGIU student view

Knowledge Management System

<table>
<thead>
<tr>
<th>Psychological</th>
<th>Culture</th>
<th>Process</th>
<th>Functionality</th>
<th>Architecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motivation</td>
<td>Truth</td>
<td>Acquisition</td>
<td>Portal</td>
<td>Electronic Document Management System</td>
</tr>
<tr>
<td>Awareness</td>
<td>Believe</td>
<td>Store</td>
<td>Agent</td>
<td>E-mail</td>
</tr>
<tr>
<td>Reward</td>
<td>Value</td>
<td>Dissemination</td>
<td>Internet (work group)</td>
<td>Internet</td>
</tr>
<tr>
<td>Strategy</td>
<td>Experience</td>
<td>Use</td>
<td>Notes Storage Facility</td>
<td>NSF Mail</td>
</tr>
</tbody>
</table>

Fig. 1. Framework of Knowledge Management System for the Higher Learning Institution (Abdullah et al., 2005)
Methods

Community Quantitative methods –

1. We’ve asked question to campus and campus community (e.g. nontraditional students, college in high school or dual enrollment)

2. Involved our campus community, student, faculty and staff

Individual Quantitative methods

3. Tests groups outside of campus such as college in high school students, faculty and staff

4. Review data college by Registration and Institutional Research (IR)
Survey to Communities - Google forms

Google form to ask campus community

1. Their position, student, faculty, staff.
2. What they want.

Using the data to help answer the questions.

3. Using the graphic data to determine needs of the campus community.
4. Use it to take an average of “what they want”.

Infographic Instructions Rating

Please rate your experience using the following infographics to help navigate the web portal. Please give some simple ratings for ease of access.

* Required

Settings

General

Presentation

Quizzes

- Collect email addresses
- Response actions
- Requires sign-in:
  - Restrict to users in SUNYIT and its trusted organizations

Limit to 1 response
  - Respondents will be required to sign in to Google.

Respondents can:
  - Edit after submit
  - See summary charts and text responses

Infographic Instructions Rating
1 response

Name
1 response

Question
1 response

Rest...
Gather the old procedures and instructions

Gather all the paper instructions that we currently have. They have no consistency. Typed up quick Word documents created on the fly.
Organize Instruction Categories

Student procedures can stem from getting access to the web portal, paying bills, and graduation.

Faculty type of instructions - tailored to faculty functions such as grade entry and attendance.

From a Registration Office standpoint an example would be registering students and overriding prerequisites.
Let the Design Begin - Ingram as an Design Aid

Many types of Programs and templates are available. Use them to your advantage. Plus some are free!

1) JavaScript, there is a library called D3. Requires code and data library files.

2) Tableau Public is free. (Disadvantages: There's a bit of a steep learning curve. Data will need to be saved on their server. Advantage: Tableau is one of the industry standard visualization tools).

3) https://infogram.com/ This offers their basic service for free. (A disadvantage would be working from templates, but that could be an advantage for the beginner. They have lots of nice free templates.

4) Google offers an option now too: https://developers.google.com/chart Here are many free templates as well.
Learning the Basics - Literature involved

- **The Pocket Universal Methods of Design: 100 Ways to Research Complex Problems, Develop Innovative Ideas and Design Effective Solutions** by Bruce Hanington, Bella Martin


- **Designing Information: Human Factors and Common Sense in Information Design 1st Edition** by Joel Katz

My three choices as guides
Types of Infographics - Multilayered

Design Principles – “Guidelines

1. Perceptions – how one views a particular element of design, information, data and instruction. Infographics have to be viewed in the same context from all.

2. Conventions - functional conventions – conventions that have functional reason for existing – make our lives easier, and bridge, through a shared visual vocabulary, communications barriers of concepts and language. Infographics bridge the gaps in communication and understanding.

3. Proximity - nearness in space, time, or relationship. Infographics must be relevant, current and produced in a timely manner.
“The Power of Infographics” describes them as “A picture is worth a thousand words,” a manifesto that speaks to the value and efficiency of visual communication. An infographic (short for information graphic) is a type of picture that blends data with design, helping individuals and organizations concisely communicate messages to their audience. (Mark Smiciklas)
Choosing Design and Layout

Keeping the branding within images consistent.

Choosing a font family that is easy on the eyes but yet attractive.

Using a design grid

Design interface, web, mobile, table, etc...
Sample New Instructions

Transcript Ordering

Accessing My.SUNY Sullivan - Instructors

Accessing class rosters - Instructors

Part Time Registration - Students

Instructors Process

Last Date of Attendence

Stop Presentation

show links
Consistency that works - future exploration

Keeping this format will train our campus community the consistency involved in not only making data easier to transmit but also be able to show the processes behind what is involved in student portals and data collection and retrieval.

In other words, we have a workable template that can be manipulated in anyway shape or form!
Enclosure for the IDT599-Capstone Experience

Thesis Final Paper by Robert J. Psarudakis

Google Survey

Infographic Samples

Google Slide Presentation
**Links-Reference**

**SUNY Sullivan - LAST DATE OF ATTENDANCE**

https://infogram.com/suny-sullivan-last-date-of-attendance-1h7k230lz8mdv2x?live

**SUNY Sullivan - Reg-Class Rosters**

https://infogram.com/suny-sullivan-reg-class-rosters-1hxj48p3qol5q2v?live

**SUNY Sullivan – Transcripts**

https://infogram.com/suny-sullivan-transcripts-1h7z2l8dr1k3x6o?live

**SUNY Sullivan as a part-time Registration**

https://infogram.com/suny-sullivan-as-a-part-time-registration-1ho16voqe1d1x4n?live

**How to Access MSSullivan**

https://infogram.com/how-to-access-mssullivan-1h7j4dvlqpe94n?live

**SUNY Sullivan - Enter-Grades-Rosters**

https://infogram.com/suny-sullivan-enter-grades-rosters-1hzj4o3ynz07o4p?live

**Google Survey - Infographic Instructions Rating**

https://docs.google.com/forms/d/e/1FAIpQLSdKWBEE4IL9VCjXHMASfCtf9UOB-E9p74DADGibl80H9NuSg/viewform?usp=sf_link

**Presentation Link**

https://drive.google.com/file/d/1H8temZaR1kakKc128l8wBy9MrFIWMTJT/view?usp=sharing

**Thesis Final Link (this may change)**

https://drive.google.com/file/d/18YKDAk1C_XoRRzM_JYgFQUoQ5PTN1sTd/view?usp=sharing