SYSTEM ARCHITECT VS INFORMATION ARCHITECT

An Information Architect

- Assists business analysts to identify user-based requirements
- Is responsible for how users interpret and interact with information
 - freeing up visual designers to concentrate on visual design elements and programmers to concentrate on code
- Investigates customers and their needs, factors business strategy and technology resources into solutions
 - this is done long before programming begins
 - can minimise loss of business and wasting of resources
 - can increase and maintain revenue from customers

Conceptual

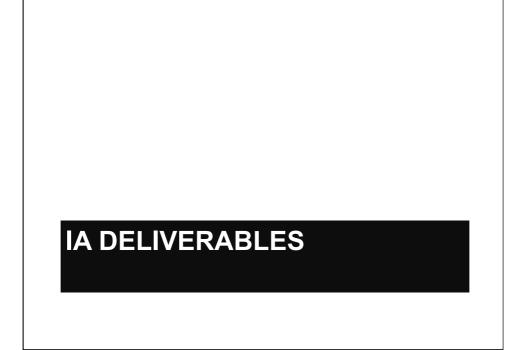
A System Architect

- Establishes the structure of the system
 - Specifies the essential core design features and elements and provides the framework for all that follows
 - Provides the architect's view of the users' vision for what the system needs to be and do
- They strive to maintain the integrity of the vision as it evolves during the detail design and implementation

Logical

User Driven Approach

- The fundamental questions an IA seeks to answer is:
 - Who is the user?
 - What do they need?
 - What will they see?
 - How will they interact with the system?
 - How will they get value from the system, accomplish their goals/tasks, etc?

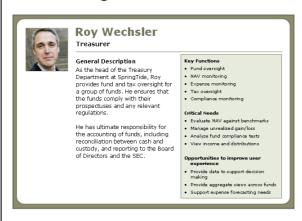


IA Deliverables

- To answer such questions, IAs have a number of tools and techniques that they employ.
 These include:
 - Developing User Personas
 - Identifying and prioritizing their needs
 - Mocking up Wireframes
 - Showing the sequence of interaction through Walk-throughs

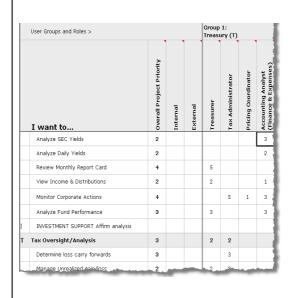
Personas

User archetypes to help to guide decisions about product features, navigation, interactions, and even visual design



- Demographics
- Psychographics
- Environmental

User Needs Matrix

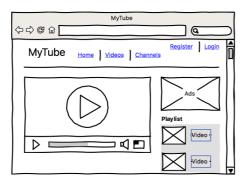


A document to capture user needs of various site users and prioritize them accordingly.

- Ensures that all user requirements are captured
- Helps to prioritise user needs and therefore helps to prioritise page elements
- Creates a snapshot view of the user eco-system

Wireframes

 Depict how an individual page or template will look from an architectural perspective. They are the intersection of the site's IA and its visual and information design.



- Saves lot of time
- Ideas can be presented without coding
- Helps to validate page elements and structure with the user

Drawing Wireframes

- Start by Sketching
- Focus on Communication
 - Keep the wireframe simple, abstract, but representative
 - Number / label components
 - Explain the functionality of each component
 - Map features to system specifications / requirements

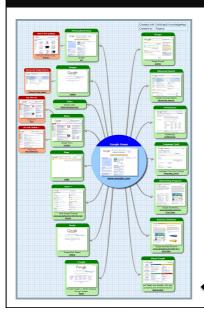
Drawing Wireframes

- Document and record your wireframes
 - See how your design evolves, shows what you have considered
- Use common elements
- Get feedback on your design
- Iterate, and improve
- Use a good prototyping tool to formalize your design
 - Try app.diagrams.net it is pretty good, and its free
 - More heavyweight alternatives, e.g. Figma

Drawing Wireframes

- Use real content to show clients what to expect and what they will see
- **Develop a site map** to show the context of the wireframe, and to plan out navigation
- Consider using a grid layout
 - Determine layout of the main components with boxes
 - Add in information using text size/highlighting to differentiate between the level/importance of the information
- Wireframe with the team in mind what can be successfully developed?

Site Maps



- Blueprints that show how the site is going to be organised
 - Provides the high level snapshot view and relationship between pages of the site
 - Helps with restructuring the deep hierarchies

Site map of Google

URL Design

http: /news/2011/may/upcoming-conferences https: /profile/someusemame

https: /profile/someusername
ftp: /products/electronics/blu-ray
mailto: /about

#faq-item-2.8 #footnote-1

scheme://domain/path?query_string #fragment_identifier

www.netmagazine.com www.w3.org farukat.es

?q=some %20 search %20 string ?sort=alphabetical ?searchq=cheese & resultspage=3

 Translating the site map into a coherent and logical URL design is an important part of site design

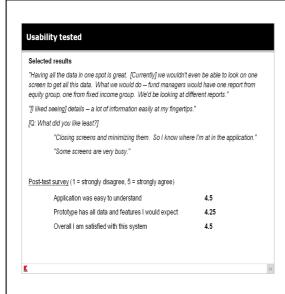
URL Design Tips

- URLs should be obvious, and inferable
 - -e.g. www.bbc.co.uk/sport/football
 - URLs should use keywords, where possible
 - Shorter URLs are better
 - -Try to avoid too many folders / too much depth
 - Use lowercase characters and avoid special characters in URLs
- Use static URLs when you can
 - This lets users revisit the information / page
 - Means that crawlers can index the content

HTTP vs HTTPS

- Extension of the Hypertext Transfer Protocol (HTTP) for secure communication (HTTP Secure)
- Communication protocol encrypted using Transport Layer Security (TLS), or Secure Sockets Layer (SSL)
- Protects against man-in-the-middle attacks
- Historically, HTTPS connections were primarily used for payment transactions on the World Wide Web
- Uses long-term public and private keys to generate a short-term session key, which is then used to encrypt the data flow between client and server
- Especially important over insecure networks such as public Wi-Fi access points

Usability Testing



- Preparing materials
 - task sheets
 - feedback questionnaires
- Conducting tests
- Reporting results
- Saves unnecessary effort and time
- Helps to convince the clients

Summary

- The art and science of shaping information products and experiences to support usability and findability
- 2. Aims to overcome the **communication chasm problem**
- Responsible for bringing together the user, the context and the content to provide a "good" solution
- There are numerous IA Deliverables that help to understand the needs of users and produce good solutions
- 5. Need to cater for **Bottom-Up** and **Top-Down** usage