

What We've Learned About Web Application Design

UPA 2002 Panel

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What is a web application?

- Can it be defined?
 - Any application that runs in a browser
 - An application that connects over the web
- Does the definition matter?
- Or is the real question:
How do we make design decisions?

What drives design decisions?

- A series of questions that can be used to discuss different aspects of the application
 - Relationship between user and application
 - Style and tone of the conversation
 - Presentation style
 - Interaction style
 - Expectations for interface standards
 - Frequency of use
 - Perceived distance
 - Expectations for response time

Relationship Between User and Application



Web Page

No ongoing relationship.
No log in.
Calculator



Prior history.
Remembers me.
E-commerce

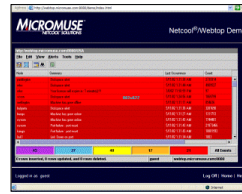


Mission critical work
Online banking

Web App

- Is this app required for users?
- Do users have to identify themselves?
- Does the app remember prior work?
- Is there an need for reliability?

Interaction Style



Web Page

Web App

**Text
Information
and Links**
Online auction

**Simple Data
Collection**
*Consumer mortgage
application*

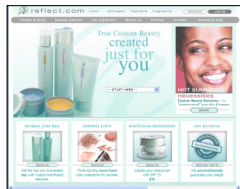
**Data Presentation
and Complex
Controls**
*Network monitoring
and management*

- How do users interact with the application?
- What is the basic paradigm of the interaction?

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Style of Conversation



Web Page

Web App

**Informal or
Casual**
*Self
promotion*

**Polite but
Friendly**
*Build-your-own
shopping app*

Formal
*Security
screener*

- What is the relationship between the application owner and users?
- What kind of language and terminology is used?

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Presentation Style



Web Page

**Fun, Cool,
Graphic**

**Informational
but Attractive**

Web App

**Subdued,
Serious**

- What is the graphic style of the user interface?
- How closely related is the presentation style to the application content?

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Expectation for Interface Standards



Web Page

**Consistency within
the site/app**

Game

Web App

**Strong PC or
Mac platform
standards**
Online Banking

- Does this application replace or supplement a desktop application?
- Is it used with other apps that set expectations?
- Is it used exclusively in a business setting?

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Frequency of Use



Web Page

Web App

**Occasional,
Erratic**
*Foreign
exchange tool*

**Episodic,
Periodic**
*Self-registration for
medical appts*

**Constant,
Daily**
*Customer
service
desktop*

- How often is this app used?
- For how long is it used at one time?
- What triggers its use?

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Perceived Distance



Web Page

Web App

**Far Away
Server**
*Panama
Canal-cam*

**Can't Tell or
Don't Care**
*Quicken
updates*

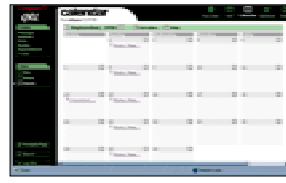
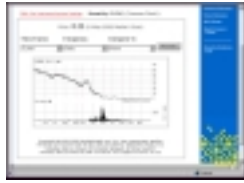
**Nearby, On-site
or Local Machine**
*Internal
application*

- Where do users think this application 'lives'?
- Who do they think controls the data?

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Expectations for Response Time



Web Page

Web App

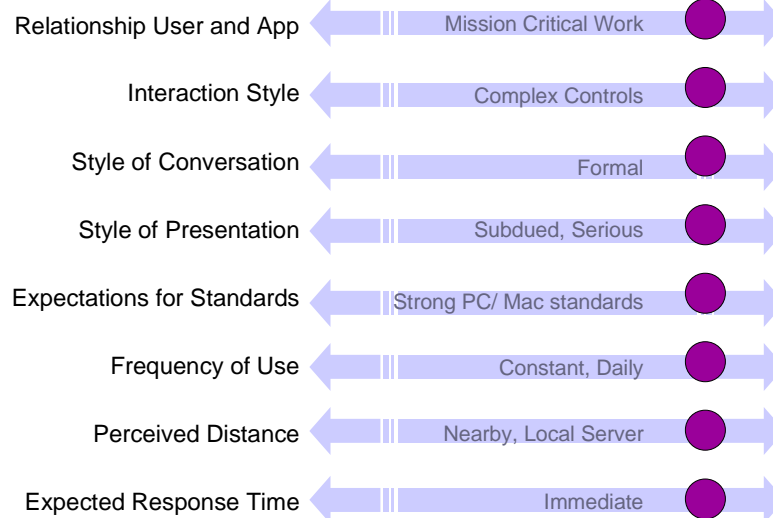
Slow
*Enron
calculator*

Immediate
*Corporate
calendar*

- Is response time critical?
- Why or how?

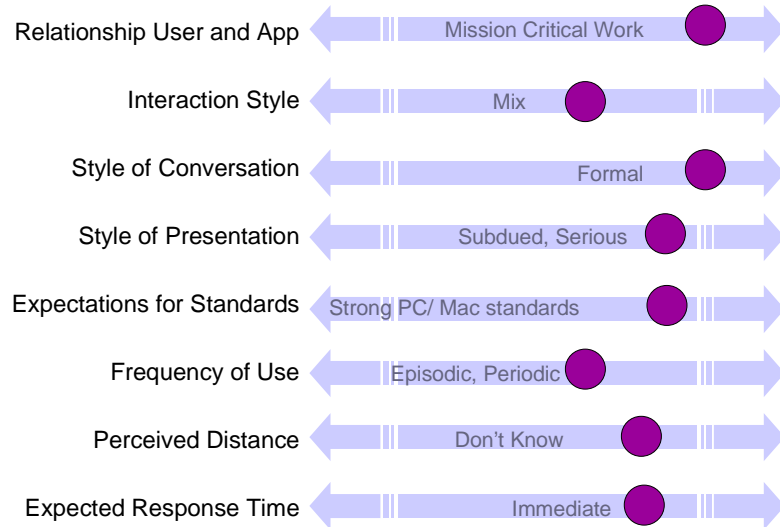
Example: Mortgage Broker App

Used to process applications for mortgages



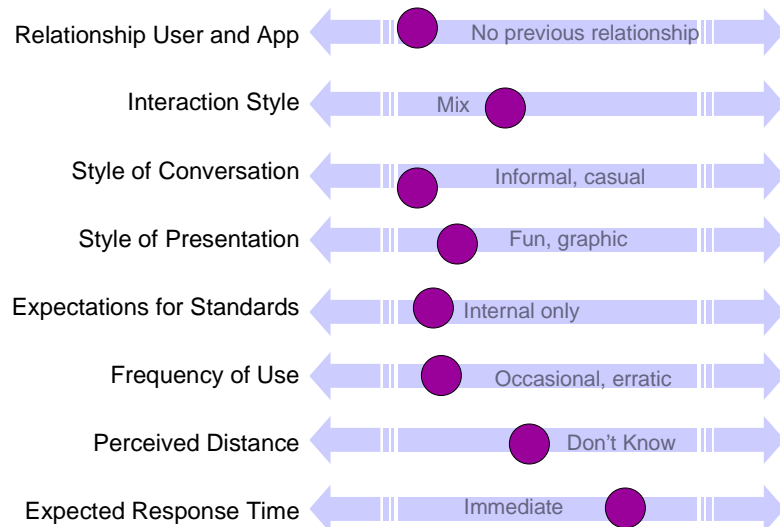
Example: Online Personal Banking

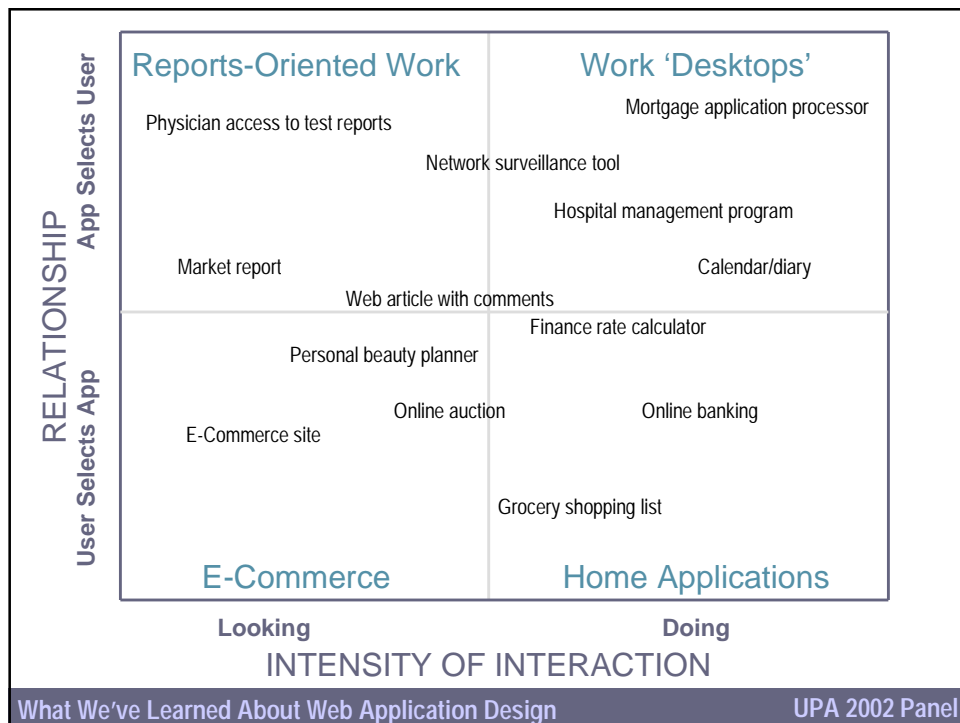
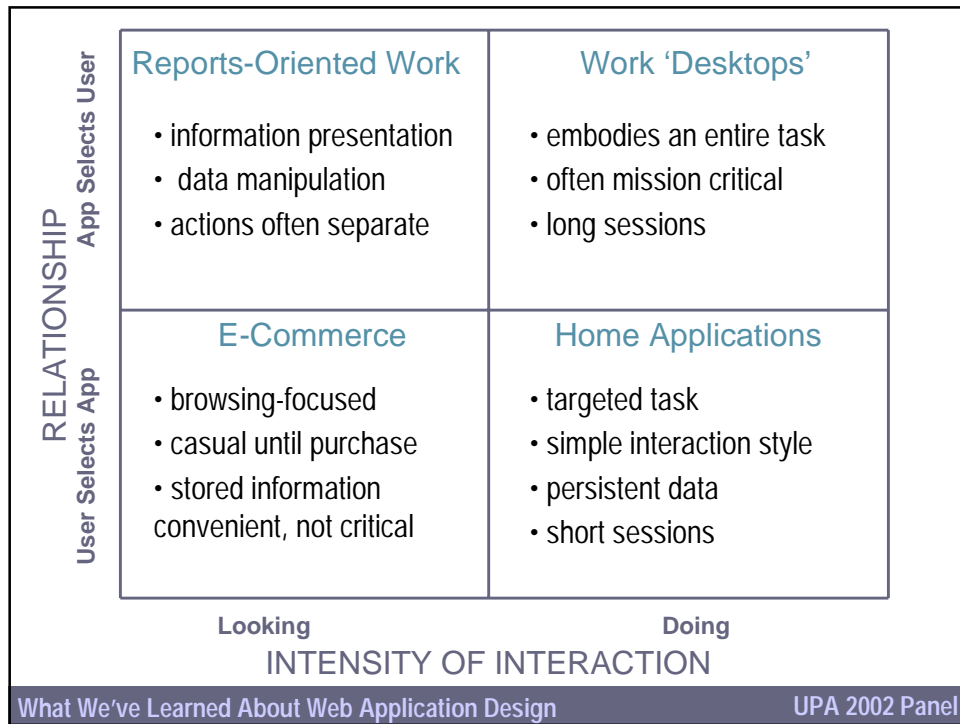
Used to monitor checking account, pay bills, transfer funds



Example: Custom Beauty Program

Used to create a custom mix of beauty products





Exceptions

- Games
 - May be “obsessions”
 - Often turn usability guidelines on their heads
- Some visualizations
 - Too soon to tell whether they are “tools” or “toys”
- Sites with overlapping purposes
 - Marketing sites with small applications

