COEN 163L

Week 8 – 2:15 section

Schedule

- 2:15-2:30 lab 5/6
 questions/demo time while
 everybody arrives
- 2:30 introduce lab 7
- Work time lab/assignment work, demos, etc.

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Week 8 – 5:15 section

Schedule

- 5:15-5:30 lab 5/6
 questions/demo time while
 everybody arrives
- 5:30 introduce lab 7
- Work time lab/assignment work, demos, etc.

COEN 163L

Lab 7 – Heuristic Evaluation

Lab 7 Tasks

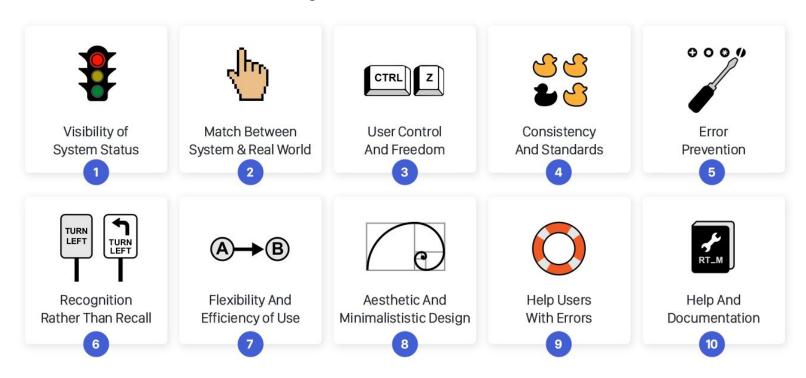
Refer to Nielsen's 10 Heuristics

Follow the heuristics evaluation procedure (5 steps) to evaluate your final project prototype.

Submission

- Individual individual evaluation tables
- Group aggregated evaluation tables and UARs
- No demo!

Nielsen's 10 Usability Heuristics



Resources: <u>Class slides</u>, <u>Nielsen Norman Group</u>

Heuristics Evaluation Procedure

- 1. Brief the group
- 2. Evaluate individually
- 3. Aggregate issues
- 4. Apply severity ratings
- 5. Summarize findings

1. Brief the group

- Domain briefing
 - o Important if evaluators are unfamiliar with the product's domain
- Scenario briefing
 - o Can optionally include specific tasks or scenarios or allow evaluators to explore on their own

2. Evaluate individually

Two passes

- Inspect flow (and optional tasks/scenarios)
- Inspect each element against heuristics

Deliverable: individual evaluation table

ID: <evaluator's initials>-HE-##

Name: succinct description

• Heuristic: H1-10

ID	Name	Heuristic(s)
cda-HE-09	No feedback during image upload process	H1 Visibility
cda-HE-10	File size instructions use jargon	H2 Match
cda-HE-11	Upload error message provides no guidance	H9 Recovery
cda-HE-12	File navigator starts from root folder every time	H7 Flexibility
cda-HE-13	Image upload requires users specify file type	H6 Recognition

^{*} Doesn't have to be all bad!

3. Aggregate issues

- As a group, read issues and consolidate a list
- Deliverable: aggregated evaluation table

ID **Combined name** Heuristic(s) Evaluator(s) cda-HE-09, HE-12 No feedback during image upload process 11d-HE-02, H1 Visibility lht-HE-04 llid-HE-03, HE-13 OK and Apply button perform same action H4 Consistency lsh-HE-11 ljd-HE-06, New entries appear above viewable area, user HE-14 H1 Visibility sh-HE-02, must manually scroll to see them lht-HE-04 ljd-HE-07, Email addresses must be added manually from H5 Error prevention, H6cda-HE-04, HE-15 Recognition memory ht-HE-01

Individual evaluation

table ID

4. Apply severity ratings

- Individually rank severity for each entry in your aggregated evaluation table, then average the ratings
- Justifications
 - Frequency: Common or rare occurrence?
 - Impact: How bad is it? How hard to recover?
 - Persistence: One-time problem users can work around or unavoidable problem?

- 4 Catastrophic
 - Product cannot be released
- 3 Major
 - High-priority issue
- 2 Minor
 - Good to fix when there's a lull
- 1 Cosmetic
 - Icing on the cake (these rarely get done)
- 0 Not a problem
 - I don't agree that this is a problem at all

5. Summarize findings

Deliverable: Usability Aspect Reports

- Elements
 - o ID: "HE-##"
 - Name: succinct description
 - Evidence: just the facts
 - Explanation: which heuristic violated, your interpretation of the evidence
 - Severity: rating and justification
 - Solution:(optional) include possible fixes
 - Relationships:(optional) link to related reports

ID and Name from aggregated table (step 3)

Example:

ID: "HE-12"

Name: No feedback during image upload

process

Evidence: When you click upload to upload an image, there is no response in the interface until you see the image is uploaded. Uploading took 10 seconds.

Explanation: Violates Visibility because the system status was unclear during image uploading.

Severity: 3 (Frequent, persistent, and medium impact)

Solution: Use a progress bar or some other indication of image uploading.

Relationships: N/A