PUI – Prototyping Lab

Fall 2013
Human Computer Interaction Institute
Carnegie Mellon University
Instructor: Iris Howley
Homework 3

- Syllabus says assigned 10/21 (in 2 weeks)
  - Due two weeks later

OFFICE HOURS
NSH1505 2-3pm Tuesdays
Same Time, Different Place!
Overview

• Paper Prototyping
• Exercise
  – Paper Prototyping
  – Powerpoint Prototyping
  – Flex Prototyping
Paper Prototyping

• Index cards, 3x5”
• Each card represents one sub-screen or one element of a task
Exercise: Alarm Clock

- Show the current time
- Ability to set the current time
- Turn the alarm on/off
- Ability to set the alarm time
- FLEX ONLY:
  - Notify the user (sound, text, alert box, etc.) when the alarm time is reached (i.e., current time == alarm time)
Action Sequence (all but Flex)

• Default state
  – Alarm clock shows current time (5:47pm)
  – Alarm on/off state is set to be ‘off’.
• User sets the alarm time to 8am.
• User turns the alarm on.
• User returns to current time mode (5:49pm).

Try it on paper! Split into pairs.
Set Time
Mode
Alarm On/Off
Set Alarm
Set Time
Mode
Alarm On/Off
Set Alarm

8:37 PM
ALARM

Human-Computer Interaction Institute
Set Time

Mode

Alarm On/Off Set Alarm

ALARM

8:07 PM
Set Time

Mode

Alarm On/Off

Set Alarm

8:05 PM
ALARM
Set Time
Mode
Alarm On/Off
Set Alarm
Set Time
Mode
Alarm On/Off
Set Alarm

8:00 PM
ALARM

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Set
Time

Mode

Alarm On/Off

Set Alarm

ALARM

8:00 AM
Set Time

Mode

Alarm On/Off
Set Alarm
Flex Prototype

- Support all the functions
  - Show the current time
  - Ability to set the current time
  - Turn the alarm on/off
  - Ability to set the alarm time
  - Notify the user when the alarm time is reached
Flex Prototype

• Start by listing widgets you’ll need
  – Time display (label)
  – Time/Alarm mode (button)
  – Time/Alarm display (label)
  – Set alarm (button)
  – Setting the alarm (text input)
  – Etc.

• Then list additional functionality
  – A timer
  – Keeping track of time
  – Updating the time
  – Entering modes (event handlers)
  – Exiting modes (more event handlers)
  – Etc.
Hey there, GUI, the Timer just ticked. ‘Better update the time display!"

You need to connect your data model and GUI for anything to happen!

Gotcha!
Questions?