HUMAN COMPUTER INTERACTION System Analysis and Design	
·	-

Forms and Reports

LEARNING OBJECTIVES

Usability

 $\checkmark \mbox{Understand}$ the Design of Forms and Reports.

Design of Interfaces and Dialogues Review of Bad UI

- ✓Understand Formatting. ✓Understand Usability.
- \checkmark Understand the Design of Interfaces and Dialogues.

✓ Understand Impact of Poor User Interface Choices

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Introduction WHY AUDIT Forms and Reports ✓If the user interface is poorly designed, it can: Usability ✓ Severely restrict the user's ability to use the system Design of Interfaces and Dialogues ✓ Cause confusion and frustration ✓ Cause difficulty in learning how to use the system Review of Bad UI ✓ Cause misunderstanding of what the system is doing and of what the user should do ✓ Cause errors ✓ Cause difficulties in using the system to successfully complete tasks



Introduction Forms and Reports	HUMAN-COMPUTER INTERFACE (HCI)
Formatting Usability Design of Interfaces and Dialogues Review of Bad UI	✓ Programmable, or software, interface which enable an end-user (i.e. the person using the computer) to ✓ Access and interact with a computer application system ✓ Make use of the facilities and functions which it provides ✓ Carry out the tasks for which the system has been designed

Introduction Forms and Reports Formatting Usobility Design of Interfaces and Dialogues Review of Bad UI FORMATTING FORMATTING Structuring the presentation of information in a meaningful, and easy to navigate fashion.

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Introduction Forms and Reports Formatting Usability Design of Interfaces and Dialogues Review of Bad UI USABILITY The extent to which an end-user is able to carry out required tasks successfully, and without difficulty using the computer application system USABILITY The extent to which an end-user is able to carry out required tasks successfully, and without difficulty using the computer application system USABILITY

Introduction	
Forms and Reports	INTERFACES AND DIALOGUES
Formatting	
Usability	√Focuses on applying the principles from Forms and Reports on the specific user interaction screens
Design of Interfaces and Dialogues	user interaction screens
Review of Bad UI	

Introduction	
Forms and Reports	BAD USER INTERFACE (UI)
Formatting	
Usability	√There are many examples of poor UI. We will focus on a few exemplars.
Design of Interfaces and Dialogues	
Review of Bad UI	

Forms and Reports FORMS AND REPORTS The difference between a form and a report Forms typically display information for a single instance of data Reports typically display multiple sets of data		
Formatting Vability Viability Viability	Introduction	ENDMS AND DEDODES
Usability The difference between a form and a report Forms typically display information for a single instance of data Reports typically display multiple sets of data	Forms and Reports	TORMS AND RELOKIS
Usability Forms typically display information for a single instance of data Design of Interfaces Apports typically display multiple sets of data and Dialogues	Formatting	
Pesign of Interfaces Apports typically display information for a single instance of data Apports typically display multiple sets of data Apports typically display multiple sets of data		
and Dialogues		
Review of Bad UI	and Dialogues	Reports typically display multiple sets of data
	Review of Bad UI	

Introduction	Language and arrows
Forms and Reports	FORMS AND REPORTS
Formatting	
Usability	✓ Fundamental Questions to ask: ✓ Who will use this
Design of Interfaces and Dialogues	✓ What is the purpose ✓ When is this needed and used
Review of Bad UI	✓ Where is the form used or seen (Web, Mobile, Printed)✓ How many people need to use or view

Introduction Forms and Reports Formatting Usability Usability Design of Interfaces and Dialogues Review of Bad UI Review of Bad UI FORMATTING FORMATTING FUNDAMENTAL Principle is that properly formatted displays and documents are better: More efficient Better received Fewer misunderstandings or errors

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Usability
Design of Interfaces and Dialogues
Review of Bad UI

FORMATTING GUIDELINES

FORMATTING GUIDELINES

FORMATTING GUIDELINES

FORMATTING GUIDELINES

* Meaningful Titles

* Clear and Specific titles describing content an use of forms or report

* Revision date or code so users can know if they have the latest information

* Current date (Date form or report was generated)

* Valid Date

Introduction	I
Forms and Reports	FORMATTING GUIDELINES
Formatting	
Usability	 ✓ Meaningful Information ✓ Only needed information should be displayed (Think Google Landing Screen)
Design of Interfaces and Dialogues	✓ Information provided in usable manner ✓ Shouldn't need to copy into a spreadsheet and manipulate
Review of Bad UI	dissidir need to copy into a species and manipulate

Introduction Forms and Reports Formatting Usability Usability Design of Interfaces and Dialogues Review of 8ad UI Review of 8ad UI FORMATTING GUIDELINES FORMATTING GUIDELINES Formatting *Balance of Layout *Information should be balanced on screen or page *Adequate spacing and Margins *Data and Entry fields clearly labeled *Sufficiently sized fonts (or compliance to browser scaling)

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Introduction Forms and Reports Formatting Usability Usability Design of Interfaces and Dialogues Review of Bad UI FORMATTING GUIDELINES FORMATTING GUIDELINES * Design for Easy Navigation * Clearly show how to move forward and backward * Clearly show where you are (page 1 of 3) * Notify user when final page is reached

Introduction	
Forms and Reports	FORMATTING GUIDELINES
Formatting	
Formatting Usability Design of Interfaces and Dialogues Review of Bad UI	✓ Color Benefits ✓ Soothes or Strikes the Eye ✓ Accents an uninteresting Display ✓ Facilitates subtle distinctions in data ✓ Emphasizes logical organization of data ✓ Draws attention to warnings ✓ Evokes more emotional reactions

Introduction	
Forms and Reports	FORMATTING GUIDELINES
Formatting	
Usability	✓ Color Problems ✓ Color pairings may wash out XAMPII
Design of Interfaces and Dialogues	✓Color fidelity may degrade on different displays (Printed vs Screen vs Projector)
Review of Bad UI	

Introduction Forms and Reports	FORMATTING GUIDELINES
Formatting	✓ Final Caution on Color
Usability Design of Interfaces and Dialogues	✓ Managers and Executives instinctively react to FED , YELLOW , and GREEN ✓ These colors should only be used when trying to convey that red items require <u>action</u> , yellow items require <u>watching</u> , and green items do <u>not require attention</u>
Review of Bad UI	, and the second

Introduction	
Forms and Reports	USABILITY
Formatting	
Usability	✓ Usability typically refers to: ✓ Speed
Design of Interfaces and Dialogues	✓ Accuracy ✓ Satisfaction
Review of Bad UI	✓ Accessibility

Introduction

Forms and Reports

Formatting

Usability

Consistency

Design of Interfaces and Dialogues

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VSABILITY

Consistency

Consistency

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VSABILITY

Measures of Usability

Learnability

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Efficiency

Error Rate

Introduction	
Forms and Reports	USABILITY
Formatting	
Usability	✓ Accessibility ✓ Does the application support visually impaired or limited hand movement users
Design of Interfaces and Dialogues	✓ Visually Impaired ✓ Text to speech options
Review of Bad UI	✓Extreme zoom ✓Limited hand movement
	◆Proper use of the [TAB] key to move around fields ✓Eye motion capture

INTERFACE AND DIALOGUE
Formating
Usability
Volidance from Forms and Reports still applies
Interface and Dialogue is an extension of the same principles
Postign of Interfaces
and Dialogues
Review of Bad UI

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and Dialogues
Review of Bad UI

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Introduction	
Forms and Reports	INTERFACE AND DIALOGUE
Formatting	
Usability	✓ Common Properties of Graphic Interfaces ✓ Modality — Can't move to next option until current is populated
Design of Interfaces and Dialogues	logues Maximize
Review of Bad UI	

Introduction	
Forms and Reports	EXAMPLES OF BAD UI
Formatting	
Usability	✓ https://userinyerface.com/
Design of Interfaces and Dialogues Review of Bad UI	✓ https://www.mockplus.com/blog/post/bad-ui-design-examples ✓ https://webdesigniedget.com/best-examples-worst-ui-designs/. ✓ https://schooling-designiedget.com/best-examples-worst-ui-designs/. ✓ https://schooling-designiedget.com/best-examples-worst-ui-designs/. ✓ https://schooling-designiedget.com/blog/post/bod-web-design ✓ https://schooling-designiedget.com/blog/post/bod-web-design

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SUMMARY In this unit

- In this unit you learned how to:
- ✓ Design Forms and Reports.
- \checkmark Understand Formatting.
- ✓Understand Usability.
- $\checkmark \mbox{Understand}$ the Design of Interfaces and Dialogues.
- ✓ Understand Impact of Poor User Interface Choices

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SUMMARY (CONT.)	