ONT-1 DATE Human Computer Interaction. In HCI we have to take into account levery element of human from the way they beceive the world to the long history of interaction with the computers. INPUT -- LIVE -- TURNE IMPORTANCE OF USER INTERFACE Now users do not accept all the Designs of the products that are more uncomportable and makes difficult to accomplish the task. HCI: Human Computer Interaction is the study, planning and Design of how feeple and computers work together so that the person's needs are satisfied in the most effective way. Use Interface Design: Es the subset of a field of study called HCI. Faelor to be considered by Designer.

Lit Users needs

(2) Users needs

(3) Their physical limitations (disabilities age, etc.)

(4) limitations of hadrane and software.

USER ENTERFACE DATE The User Interface is the part of a computer and its software that people can see, Bear, touch, talk to or otherwesse understand or disent. USQ Interface components. IMPUT - To communicate their needs OUTPUT - Computer Conveys the Results
of Ets Coneputations and Requirements
to the User. IMPORTANCE OF GOOD DESIGN A Well Designed Interface and schen is traibly emportant to own users. It is window to view the capabilities of the system. A screen's layout and appearance affect a person in variety of ways. Poor Design may even chase some people away from a system permanuty it will lead to Buskalton and excess Benefits of Good Design Productivity: lg tf a Applocation has good screen clarity and screens less crowded. The pararchand can be completed in less

time and leas exists than the screens with chempsy designs. Baining Costs: are lowered because baining time is reduced, support line Costs are lowered belause fower assist calls are necessary. Economical benefits & Edentifying and Acsolving Boblems Vialing the Clesign and development Bocess also Las significant leonquie benefits. CHARACTERISTICS OF CRAPHICAL and WEB USER EMTERFACES. Chaphical Usa Interface 3 The painting.

3 Machien Mechanism is a pointing

deure of some sind. It of the

electronic equivolent to the human hand. Exponence Consputed power and rast
supposement in the desplay exable the
uscase actions to be seasted queekly dynamically and meaningfully Recen ravegation lappers though recrubers, pull downs, pop up Radio bultons, Cheek boxes, 1887 boxes palleles, dop down menus.

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- Symbols recognered jaster than text.
-> Fastes leasning.
-> Faster learning.
-> Faster use and Boblem Solving
> Less cooks, less anxiety.
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Sophisticated revual Repercutation: In the Menus — (pull down, pop down)

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list bones , neares bultons. Pock and Clock deteraction o More actively Required of a posson to oderly this element of soposed actron commonly reffered as Pock. Signal to pajon a cleek. Use moves to the mouse poonter to the Relevant element(Pich) and the action or signalled (clock) eye, hard, mind seem to work effecterly and smoothly together. Reskorted Set of Interface options. alloy of alkeratives available to the upon of what on selected on the screen of what way be selected though what is presented on the screen, nothing leas, nothing concept fosteled of NYSIWYY

Advartages of GUI > Symbols recognized jastia than text. -> Faster use and Boblem Solving -> LEBA CREA, less anxiety. - More rational and more attractive. -) low typing Requirements. Die advantages of CNI. - Reater Design Complexity. J Leadning still necessary 7 lack of experimentally-derived design gwelclines. 7 incorsostencies in technique and territology CHARA CIERISTICS OF CIVI 1. Sophisticated reanal Percentation: 2. Pick and Clack Interaction 3. Riskicted Bet of Interface options

Sophisticated Yearral Representation; on the Youral aspect of the interface.

Meaningful Enterface elements Wendly percented to the user in a gaphical system include wordows (Bondy, seconday of dialog boxes)

Menus (Dull Novon Dop down) Menus - (pull down, pop down)
Sween based - textboxes, swoll base
list boxes, nxxxxx buttons. Pick and Click deteraction of Moke actively Required of a person to oderley this element of Boposed action commonly reffered as pock. Signal to pagern a cliek. Used moves to the mouse pointed to the Relevant element (Pick) and the action of signalled (clock) eye, hard ruind seem to work efficiently and smoothly together. Reskorted set of Interface options. alleratives available to the upon the screen of what way be served though what is presented on the screen presented on the screen, nothing less, nothing coneept fosteled on WYSIWYG

DATE WEB USER INTERFACE Web outstjace design is essentially the design of navigation and the presentation of organism . It or about content. Not data. Propo interface design in lægely a matter of balancing the skeetete and Relationships of nevers contest and otto linked documents on graphics. Design language HTML

Stephnallon Rehitecture and look flow
because It In not easy to standadize. CHPRACTERISTICS OF A WOB ENTERFACE -> Web Titldace possesse a number of Chesaetaisters, some semolal to a CUI Prindace and has already been shown, lone dofferent. Most significant différences > Devoces. -> UXQ Joins. > Dala / Enformation - Use tasks. The live design, the layout of a sceen

Deb page look will be greatly influenced by both hardrown and rophware. The CIVI - all about well defined applications and data, flarkaeters and processes. In Web - is all about information and revigation, people more back and John in an unskuttled way > Cruz is by known, lausted and Reputable
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	copy paste occus	charges in contexts	
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PRINCIPLES OF USER INTERFACE DESIGN Interface should Really work first loke an Entersion of a posson.

The system and the software must reflect a posson's capabolities and respond to his on the operation needs. Interface should be efficient and easy to use and helpful in accomplishing out their objectures fast. Intespace should serve as both connected a separator. connector on that it lies the user to the power of the computer and separater in that it minimizes the possibility of the parkelpants damaging one another. Crencal Riniples. HESTHETICALLY PLEASING CLARITY 2. COMPATIBILITY 3 COMPREHENSIBILITY 4. CONFIGURABILITY CONSISTENCY 6. CONTROL 7. DIRECTNESS 9, EFFICIENCY 10. FAMILIARITY PLEXIBILITY 11, FORGIVENESS 12. PREDICTABILITY 13 RECOVERY 14. 15. RESPONSIVENESS SIM PLICITY 16 TRANS PARENCY 17.

Acethetically pleasing : It should be rishally pleasing composition, should be attractive to the eye.

Yesual appeal mates a computer system accessible and inviting, convey a message clearly and quickly. Cheate ghoupings

Align screen elements and groups.

Use Colors and graphics effectively and 80 mpdy. Clarity & Interface words should be understandable, simple, unambéguous and free of computer jægon. eg words and fext metaphole, Junctions. Compatibility & . Use Interface design should be as Use Compatable

b) Task and job compatable

c) product compatable. Each neel has deffect aspirations, needs attitudes, designed should understand needs and adopt the usels point of view. Must rever be jaced to navigate between applications on many was

product compatible - the present use of this System de offen the new of olter systems.

The new system. Because we need will make use of the things which they know and Reduced the necessity go new dealning. 4 COMPREHENSIBILITY A system should be easily learned and cudosstood blowing in a comprehensible and meaningful order. eg what to look, what to do, when to do CONFIGURABILITY. Caly pelsonalizetlon and cut brujetoon Mangh Configuration and Reconfiguration of a system enhance a sente of control 6 CONSISTENCY A system should look, act, and operate the same thoughput Eg same action should always yield some . Result elements should not change.

DIRECTNESS: Bovide Dact ways to accomplish lasts. EFFICIENCY: Minimize eye and hard movements and other control acknows. ackens. Marigation paths should be as should as possible. FAMILIARITY: Build on the use's existing knowledge, build into the interface concepts, seaminology, wolflows and spatial adagements already familial to the user. ELEXIBILITY: Glexibility is the Bystem's absility to Respond to Individual Cifferes in people. people to Choose the nected of interaction that is most appropriate to their orhintion. FORGIVENESS: Toldate and Jorgan Common and unavoidable human exist.
When exist occurs provide constructive mellages. PREDICTABILITY: The User ofould be able to astecipate the national Biogression of each task. all expectations should be able the Julfilled on migotimy & completly

RECOVERY lies part, & hardware or communication RES PONSIVENTESS
The Bystem must rapidly

Respond to the usesia requests.

Provide Emmediate aknowledgement zor

all user acheons: risual, textual

and auditory. SIMPLICITY
PROVIDE AS Sirople an interface

as possible.

Leg minimize sireen alignment points

Provide defaults. TRANSPARENCY lask of job, without concern got the meetanece of the Enterface.

NIACERATO