Gaathi Object auton interface (OBI) Usur Interpaces. H Styles of Interaction. 1º Direct manipulation - Eg: mouse. 2. menu - Based manipulation -3. Form filling 4. Command Canguage. + 3 important gasks: · Data entry · Information Display · Navigation -> Different mone based options. - try to read. 2 widgets - windows + (radgets: Eg: list Box slider Radio Button, check box Button. # fitt's law - mi (movement = at blogg (20) movement time is a junction of distance of width of target. = tog\_2(20 (w) = ID called as & ender of Difficulty. 4 measured in bits. # TO= ID bits/sec. virtual reality - Use of computer simulated software to for better understanding of system to user. without of execution - a land of evaluation # Usur manuals -. It helps in getting instructions & functionality of software. Page No.

## Designing the user Interfale-Chneiderman



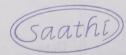
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#	Frameworks and HCI -	10,42-7
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	Dialog	

(Saathi)

of allon how we control our design, Physical Characteristic environment in which interaction takes place and the layout and physical quality of screen.

3 types of digmment of I cons.

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· Functional · Sequential

· Frequency

Physical environment - where system will be used the user will be stating, of anding even the pize of the user to taken care.

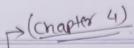
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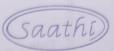
Fg: 7 empurature, lighting, colours

in the we design system and suggest detailed suildens and specific standards.

## # Interaction styles:

- · Command line Interface (CLI)
- · Graphical user " (GUI).
- · Natural language 2" by mil volument miles on
- · Question | Answer | Form felling | Query dialog box
- · Form filling & spread sheet
- · WIMP Windows I cons Menus point
- · 3-D Interfaces (VPrutal Realty).
- · Toolbay & Pallette





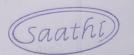
Part Paradigms of Interaction; Time sharing systems. - context switching blw tasks on bases of time quanta. vedeo desplay unets: Skotch Pad: Programment tool kets Personal computing: Alan Kay vision made hand held PC - Dynabook. The metaphor - a visual construct denoting some real world Derect manipulation: (Shneiderman's creteria) · vispbility of objects of enterest. . Incremental action at the Interface with rapid feedback on all actions · Reversebiting of all actions. · syntactic correction of all actions. · Replacement of complex command with actions to manipur tate the directly the vestby option. WYSIWYG; what you see is what you get with a) Discuss the ways in which word processor is a or is not a direct manipulation interface for althing a document using schinder man's criteria. # Language U/8 Actions Programming is an example of language us Action. Hypertex " 4 "memex" The use of such non-linear and associated unking scheme for more than just the storage and retestival of textual

information, the term hypermedia or multimedia

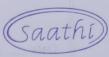
## physiology of MCI - stuart card



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>	Muti-modality: Uses mutiple senses of human beings
	water the state of
->	Computer supported co-operative work (CSCW):
	· This paradigm was the notworking. People can collabrate.
	Ex: E-mail
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->	www:
->	Agent based interfaces: Frequently performed tasks can be
- 9	automated by calling soutines using If then else condition
	Ex: spellcheck [foward / Backward charleng]
$\rightarrow$	Ubiquutous computing: systems are available everytime
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	Sensor based & context aware:  Atmosphere conditions like - atmosp, pressure.
	Exi- Smart Clies.
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4	Interaction Pesign
	(roals - The final output which we require.
	constraint - financial, time, resource, environmental
	Trade off - To reach the goals within the specified
	constraint and the second seco
7	system has to be robust - overcome the failure.
and	# material - it consists of human, user, competer system.
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#	Design process-
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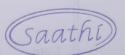


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#	Design process-	
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18 14	A user can be a part of design	help-
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#	Interaction Design - 1200000000000000000000000000000000000	pido 6
1)	Discoverability - rou have to sigure out w	
	done and how it can be done.	
	Lagrey Color	765
1)	simplicity- only relevant information should	d be reflected
	•	solne to
3)	Appordance - user have to jigure out what	can be done
101	by looking at properties of object.	
1163	Compared to the transport and trade of - 110	
u)	mapping - Use of war user oriented terms ratt	
	system oriented ferms.	
	'al arm - I	
5)	Perceptability- User have to perceive that so	metring has
	happened by dicking or changing state of	system.
	- 350,000 8	of Design
6)	consistency - Eg: Myperinks - All links in 1	olue color.
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6)	flex; bitity- multiple ways of doing one taok.
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9)	tale of use-minimal fatigue to user: to: minimal mouse
	wicks of user are required to do a teask.
(8)	From Prevention - Eg: consisting forsword while making
	a new password.
	as many warmers ship study to - white hadred
()	Tolerance - Reduce the cost of punalize user. Eg: undo, red;
n)	Audience specific -
2	
13)	customizable - Eg: Font-size, minimi le or moxì window size.
	light / Dork mode.
(u)	feedback- it is relevant only when it is informative and
	immediate.
-	
(5)	Trouble shooting - User manerals, - what can be done if system
	gold wrong.
#	ucp - user centered Design -
	Need finding > Pesign
	Alternative
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	Evaluation Prototyping



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6	Design atternatives- avoid tunnel vision.	CE -
٠	Prototype - It is snown to user how the final	Product
	will be made. Eg: Paper Prototype.	4
	La Morizontal Prototype - Et is a shallow repres	vn tation
	ontre system.	
	la vertical prototype. A détailed representation d	) a
	forn'en or module.	
٥	Evaluation - it can be qualifative or quantitative.	500
	Qualitative - live demonstration of a Prototype.	
	Suantitative - all metrics like accordacy throughpu	J.,
	learnability.	6
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