Depar	tment of Co	College of Engineering Load, Byculla, Mumbai 400 008. Mputer Engineering Versity of Mumbai)	Seat No.	7281020
	ect Code	HMI	Date of Exam	01 /06/2021
	cct Code	52751	Semester	VIII
nvigilator Signature		Total No. of Pages	Student Signature	Airesan.
		t presentation styles at disadvantages of ea		ms 9 State
as to	er windows. Eled or overlap Windows.	of windows refers There are two basis	E Styles com	monly called
- Tiled - Tiled	windows d window nbract to fi	en're their name from appear in one plane of	common floo n the screen uface as no	or or wall the
- Most adjus	table in bot	ms used two dimens	sional hiled	windows
- Most adjus		appear in one plane of the up the display so ims used two dimens in height and width	sional hiled	windows
- Most adjus				windows,

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0	Advantage	0 :		0.51.15
-	windows	ar positioned a	utlomahialy, ea	uy vixibuly
-	Every win	dow is visible	completely loosing	ng the possibluty b
	be hidel	N.		
	Easy for n	ovice or inexperie	nced wer to me	,
	Yeila be	the user perform	nance for tasks.	
	00 1	001-	, , , , , , , , , , , , , , , , , , ,	
	Disadvant			
-	limited n	oscan be display	yea,	hoa windows change
-	Pacina d	this is shown of week	expendace	hing windows change
	The weed	ehinorahing user ows change the	sive or position	which can be
<u> </u>	ous concerr	ing to the users	•	
2)	Overland	ing windows.		
_	Dverlapping	a windows may be	e placed on one	and another like
	pile of pa	per on the duk.		
_	3-D Qual	Eq; appearing to	o he in diffexa	t planes.
_	Size of m	urlandina winder	ws can be affer	ta.
-	Location	as thell as the	plane of user	is conholled.
				and the second second
	190	A street of the		
	Dil	and the second section of the second	A sum of the sum of th	
	part of the same o			
	100	and the second s		
				fig: Overlopping windows.
	1			a contra

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0	Advantag	(a)		13.7	
_	visually a	uppealing.			
-	lireat cor	noll allows user	to organize	windows more	
	efficiently		J	,	
_	Windows are large in size, mointain positions.				
	Yeild Bette	r performance to	r taske that rea	quire more window	
	manipulat				
	Sorcen spai	ce conservation is	not an issue.		
	'				
0	Disadvanta	go			
			•		
-	More comp	lex to operate			
-	Requires	more user conhol	and attention.	•	
_	windows	may get last b	ochind other n	sudding.	
_	The spai	reis 3-D in nal	we is not al	ways realized by	
	the user.				
	_				
3)	Cascadina	window			
	- special	upe of overlap	ping window	com others	
	-windows	automan carry	arrangea in r	contar prograsion	
	- Each win	dow has a dif	grent offset p	om others	
	, , , , , , , , , , , , , , , , , , ,		The state of the s		
		-			
		n	No. / c	for condina	
			3/10)	fig: Cascading windows	

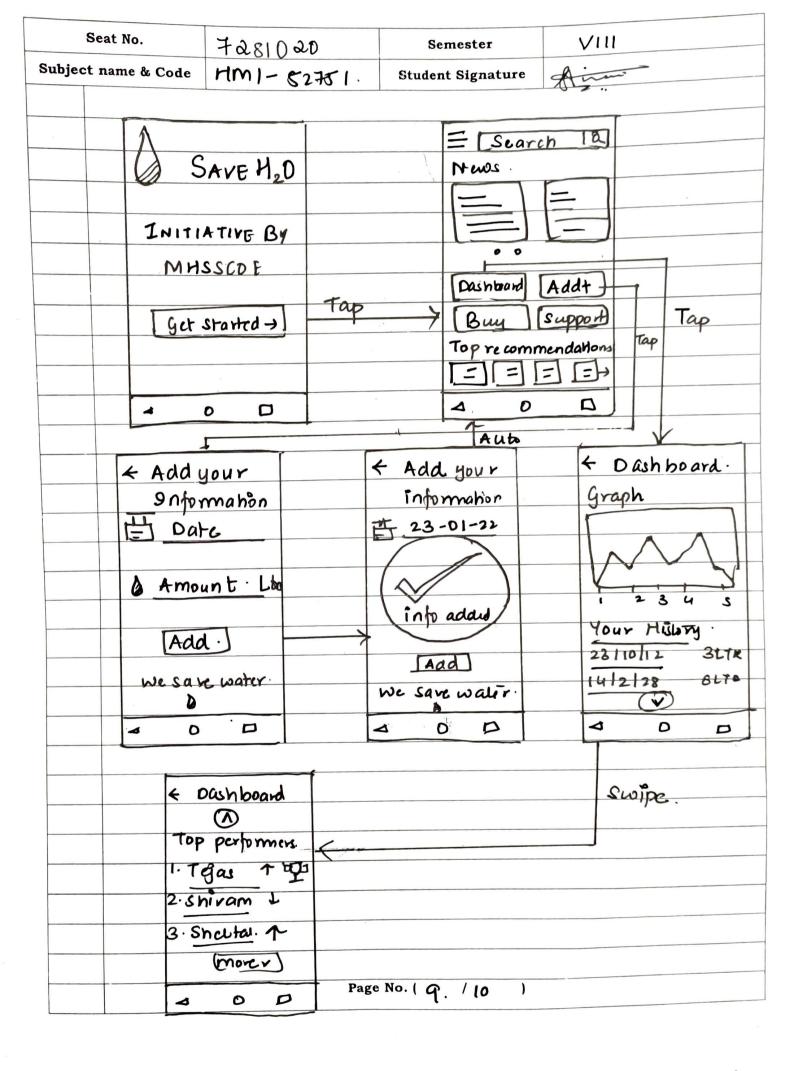
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· Advantag			
- No wind	DIO is computary	hi°delen	
- Controlline	and placing	window is eas	ier.
- simplicati	j'in visual repre	esentahon.	
	J ,		
o Disadvanta	ge.		
- No risual	appeal as the	windows creat	e one behind anoth a
· creating	aguitan vike app	orarance.	
- confusion	while finding	windows if the	no of windows
opened a	re greater in n	umbers.	
0 0 0	1011 - + 010 000	م م م م ا طفع	ated deveas
S explain	different phase	of good win	ed metholology.
			4 11414
- Stieden	d by Alan-woper hipis behaviours	& goals of the	c users.
- St combi	nes techniques	rescarch, staker	older interviaus, design
15 gether			
- following	diagram shows	goal directed	dwign.
, 9	Ruse	arch phase	
	Mad	utting phase	
	Trwa	mily priese.	
	Requis	ement Defo pha	ie
		-	AND THE PROPERTY.
	fram	pework phase	
	Annual State of the Land of th	remen phase	
	Reffi	nemen phase	
	Reffi		

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D Research	phase.		
- Pouses o	n market surve	y's conducting	mer interviens &
observa ho	٠ کتا .		
- This pha	se generates all	wal user inform	nahen.
		,	
2) Modellin	g phase		
		· · · · · · · · · · · · · · · · · · ·	
	research phase is		sermodel that
1	information from		
This phase	helps to unders	stand user deta	йU.
3) Pro . 8	+ 0.40 al	· ·	
- Requirement	nt Dem phase	1	0 + 011 19 2
,	R R Kend imbor	tant; here rea	juirement collection is
done.		1	
+ St provid	a connectivity b	IN users, mod	les & product framewo
4) 5~	le =1-	,	
4) Francwor			
- A([moderate desiran 0	france	the auction has auco
	•	, ,	the system behaviour.
	•	, ,	d'in this phase.
- product ?	nteraction frame.	work is propose	9
s) Requirem	nteraction frame. - Refinement pha	work is propose	d'in this phase.
S) Requirem	nteraction frame. - Refinement pha y emphasizes on	work is propose	d'in this phase.
S) Requirem St mainu implemente	nteraction frame. - Refinement pha y emphasizes on	work is proposed	m & product
5) Requirem St mainu implemente	nteraction frame. - Refinement pha y emphasizes on	work is proposed	m & product
5) Requirem - Dt mainu implements - It hups t	nteraction frame. - Refinement pha y emphasizes on hon. - orace story to	work is proposed	m & product
5) Requirem St mainu implemente	nteraction frame. - Refinement pha y emphasizes on hon. - orace story to	work is proposed	m & product
5) Requirem - Dt mainu implements - Dt hups t	nteraction frame. - Refinement pha y emphasizes on hon crate story to phase.	work is proposed	m & product in phase
5) Requirem - Dt mainu implements - Dt hups t	nteraction frame. - Refinement pha y emphasizes on hon crate story to phase.	work is proposed	m & product in phase
5) Requirem - Dt mainu implements - Dt hups t	nteraction frame. - Refinement pha y emphasizes on hon crate story to phase.	work is proposed	m & product in phase
5) Requirem - Dt mainu implements - Dt hups t	nteraction frame. - Refinement pha y emphasizes on hon crate story to phase.	work is proposed	m & product in phase

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52-131 Stadent Signature							
33. Solve an	y two out of	Three					
			,				
Oraw an	d explain lay	iers of mobile	e evosystems.				
Mobile	s an enhorcy uni	que ecosystem a	nd it is made of				
arteran	authoran pasts mat come logether 2 work with each						
011,64.	011/64						
- 9tonsists	of various laye	is and each l	ayer is reliant on the				
others to	create a scame	cas & end to e	ayer is reliant on the nd wer expenience.				
- Following	are its layers:		,				
	Servi						
	V ·	icahors					
		on framaworks					
		g Systems					
	Plat	onis					
	Device	25 ·					
	Aggr	ega lors					
	, 11	w					
	Opera	log .					
0	1		4				
Lan	ie: Layers of	Mobi le Ecosysti	m				
. 10							
i) Operators:	i) Operators:						
-		ocudi m :					
- Also reth	and an Mahile	Newpords and	rahox. (MNO). o any non reliable				
- They set	as and anth	tack offer	and and all ohe				
and act	us guaras as th	ey aonot allow	o any non remade.				
ennno	o enter the mo	DIC NIM.					
- incy mai	intain a specif	ic set of wire	ess services over a				
reliable	alma nho.	No. I C. I to					
	rage	10.16 / 10					

Cast W			
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10 Neworks			
- Operates	as a wireless N	~ ·	2
- It consists	of a stmilar	technology li	ke radio that sends
and receive	es signale from	the antenna.	
- The upec	of radio and ater	nna determines	the capability &
scrvicoy	ou can access on	it.	
iii) Aggregab	<u> </u>	. ,	
- Also know	n as mobile end	ablex.	1-1-0
- They are	third party com	panies that on	age the gap blo
content o	wner, arner	& operators x	aons umcr
0			
îv) Davico:	0.1. 1.0.	landile arte	malade.
- Devices ar	e considered as	maria de la maria	- 1 univolent technology
		u win anage	ne of wireless technology
- cg:- Mob	11e phones.		
Dla Hayaaa			
(v) Platformu	:	· ·	
- Then sever	a a platterm	to man slow as	ned various services.
	imany duty is to		
- These are	castints 2 c	remois will	nsed, proprietary &
	•	ar gr	aca, joint
open source	E.·		
(vi) Operating	Sulin,		
	· · · · · · · · · · · · · · · · · · ·	residing	on the Ohone.
200 001110	A - d - co line K	apps to the same	on the phone.
- example:	Amavola, 103 je	slack be try.	
1-10-A			
(VII) Applicant	on gramoworks	- 01	euch as
- Ot runs	on hop of the	Os, share it	s services such as communications
	, rago	*No. (7 / 10)	communications

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	, authorhocanon	& many others.			
- Applicans	- Application platforms are used to create apps such as				
gamo,	browser, camera	or media pla	y cr.		
C) A			,		
(viii) Applicant	<u>)na</u> ·				
- Thyare or accu		ns that runona	a website, a device		
	ames, web brows	er or camera.			
(IX) Services	•	,			
		•			
- These are	everything the	user is trying	to do.		
- These are	functionalines	provided by ap	plication, O.s.		
- example:	Internet, ser	nding a message,	plication, 0.5. culturg pillurs.		
A) Dwign a	user interface f	ora 'Save W	ater' canipaign		
Accume	Assume appropriate data sequired for it.				
-> Scenario	-> Scenario 1. Add water saving infor				
1. Go to P	comepage				
2. Click o	n get Started.		•. •.		
3 Add 6	be info. 4. auck	add after add	ing injo-		
4. g. to	dashboard.				
	Page I	No. (8 / 10)			



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Subject name and a subject name		Semester	VIII				
	HM1-52751	Student Signatu	are Aim				
2) User secnanio 2.							
Change your name							
1. go to Home page							
2. cuck on	2. cuck on Hamburger many box.						
3. Click on profile							
	7. Edit button name.						
5. Add na							
6.Culksave.		Tap					
O SAVE	420	= Scarch [5]	← Menu				
		News	Hew Shiram,				
INITIATIVE	By		Profile -				
MHSSCO) E	dashbard Addt	History.				
	tag	Fundraises.					
(get stan		About					
	Top recommendation						
4 0	0 0						
1, 0, 12	Tap	. 0 101					
< Profi¹le		← Profile	← Profile				
Name	Y VITAP	Name (r)	Name (5)				
Shivam T. 2	5 	Shiram Time 10	Shqvam Tib Q				
Addru		Shiram Tim to	4 Address				
Sahar 6)		Sahar a				
Contact		Contact	Contact				
88 2815819	20 1	88281581982	8828158198 \$				
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