After Mid TOPIC NAME: Design Pattern DAY: _____ - Best practices of obsoriented SDES. - Solution to general problems. - Obtained by trail error over time. . Usage of my with hear shower O common plat form for Leveloping teasily connect - pich up in another with other devs project

[ex: use simpleton pattern - downhad doutn - obs same everywhere

(a) Best practice & so lution fast

They learn fast Types of Design pattern 23 Patterns in 3 catagonies 1 Creational @ Structural Behavioral O Creational pattern: O create obj hiding un hide : car = new car (- - -) Adv: advantage of flexibility of creat ob

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No. of Concession of Concessio	TOPIC NAME: DAY:
Period School of Street, Stree	Structural Pattern:
The state of the s	tinhenitanel mondo
NAME AND DESCRIPTIONS OF SAME	3 Behavioral pattern:
Charles and Art of the Contract of	+ communicate between obj
TALE TO SELECT SECURITY OF SEC	ex: Acc - customer communare cash give, take communare
Name of the last o	Observer Pattern
CANADA A DISTANCE	· one to many run between obss
できることできることできないとのできることできることできることには、これには、これになることには、	when charge sub - observer obs are notified of o
CONTRACTOR CALCULATION CONTRACTOR	ex: class subject:
A CONTRACTOR OF THE PROPERTY O	3 update @ state = new ()
Charles of Control	notify when a new ban Is notify observers added

TOPIC NAME: observer = fan example horozone Clm observer 1) add sub @ remore sub 3 upante subsect ide mile subject alog @ fr. add with (ci) mores ta. ad cell (c2) tz. add culib (CZ) > HI will be notified when to 2 joins ELCONING The trong of ano Participants: 1) subject! - has observery - sends hoti to observery when state changes Observer: - ofts notified of changes Concreate sub : sub class of sub by film club, 470-farcher concreate observer: sub class of obs 4 470 Str Luty

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	a filter		
TOPIC NAME :		DAY:	
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7	Struture		
Attach() Detach() Notify()	Ly brossy	Convert Obs	
concreate out state set state	Sub)	(Stade)	
concrede	observer ex		γ
So con	create uses	-> add cub tumove form the obs's operate superclass	ion
	- 3 (V () - 2	concreate celeb	
ley! ob	s always) ooks	for change	
concern 100 001	d w object	update	
	· · · · · · · · · · · · · · · · · · ·	of can mo (3)	
		W1 - 2 - V	

	namicm		
TOPIC NAME :	solution	DAY:	JM Secretor
		TIME:	DATE:
		unanter de la constitución de la c	

Singleton Padlern

O Lazy initialization; create instance ofter - Avoid waste - improve performance - ruduce mimory reor winnerst it is needed it null: then create

a class has one instance

Helpanh = new Helpask () instance class call

- 1) incorrect programme if multiple thread
- 11) Overuse resource: database connection

Lyonce is enough then use it for others

Creational pattern: indirecty create obs

Obs for printer then 100 comps

TOPIC NAME :	TIME:	DATE: /	/
Rother than creating same	s C40	in mult	hiple
class - create 1 060 fo	r mult	iph claw	Š
O Helpdek class - private	2	1931	1
+ service () dil publi	ic dans	get	,
it no instance h =	Jones of	1115	
rubourte raturn har wo	stati'		
12 Student class 3 Te	a cher Ls call o	ret	
first call obs created.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VIII AND LONG	me
obs returned.	· 1	Majori	
() and of gramain	n class		
singleton -> cre	ate in	stance	
(northern Gdo) other acc	ev)) (m)	
Chros			

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TOPIC NAME :		DAY:		
and the same transfer of the same of the s		TIME:	DATE: /	/
Existing system:	their of	cuient o	U:	
Ctg Pitta:	Pi	7701		
1) Bausage ()	rata L.	1 topp		
(bread ()	1.400	(2) bun	()	
odopter \	y da /	· 4-1	. N. L. S	
cto	adupter !		ol.	
	topping of	1. 0.		
	sausay	() 7	0 - (1)	
(do @	bun é	1		
SPINAC FIRE	brend	al)	5	L.N
Participants:		A000 3	01/1/1/10	
Participanis,		1	challer	. 27
1) target:	cuient inte	er face	e x	Pizza
@ cient: n	the call-	the me	thods	LOD!
B) Adopter:	existing co	de the	muds to	be oder
a Adapter:	Adorpts	adapter		

DATE: Object Adapter call it in adaptor. ctg = ctg pizza () 1) topp of etg. savsage () Ocomo obo 1) Overrude adaptu's methods con: can't get subclass methods. only parent and

TOPIC NAME :	DAY:	DATE: /	/
Software testing evaluate it system sort			an and I
Testers: software tes	ter, De	reloper nanager	nuvo s
Occasification (source of in 1) black box test (input o Send user - no coa - function	10-1	Lana	
White box structural, s devs - unows all mixer	1	ammie 1	porced
Consitiention: stadio a constitución de la	t tost		

TOPIC NAME: Non functional fest 1) Performance - load taking supacits Friendly interface 10)] @ Usability -3 security (9) pontabilits - all device functional: 1 Unit test: to pevelops do befor giving to test team be jisolate each pant and chech new @ Integration test: + combine units and so it work together + Bottom up: low to HAM - Top down . High to low System testing: + test as a whole topeciality test team

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TOPIC NAME :	DAY:	DATE: / /	
Non forc:			
performance test!			
speed, capacity			
Load testing: Apply max load	ACCEN	84248	
Apply max load	input duto	manipulate	
L> behavior	at peak of	est	
Strustest: 2 Films	(1)		
test in abnormal		1	
	+ take own	y resources	(
	overlor		
artabase etc	breah 1	point find	
snall code	to trees		
De : wt a time 1000 :11		ar 1	
Prito	+ col of	-WAY	

TOPIC NAME: Test Driven Development TDD ESMENTED POR 1) Write test then design > x fagile Steps : (De Add test : printed bood Major the to Run Jes Down 19791 hope do B change code @ Run fist Difficulties topo carlo Unit testing · Automated testing flests small code ex: methods, funcs + marrow scope: at a time focus on small chunh white box testing

TOPIC NAME : Heps: (white box) (1) Setup Fest 2) each fest -> test method f statements test 3 Execute + Tasult @ motch nexult 1 Tasting is not time consuming est complete Auto.

Auto

der fear to a complete test is not possible. more putis (it due) so not al Detail software that pull free 10 poports missed are not due to trator Y patronte tool +

ne venture	TOPIC NAME: DAY: TIME:	DATE:	Nation of the Control	
MONT GOOS.	Fixed Test Myths ① Testing is not too expensive Hearly testing saves cost No testing - complications Lesting is not time consum thing error is ③ Test can be started before fills Leony in ⑤ Complete test is not possible I many paths (it the) so possible ⑤ Tested software Isn't buy ⑥ Defects missed are not due to test streetery Lest rear	deve nwode not	doped of the	ececeterecetereres entricialists

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TOPIC NAME :	- 96	DAY:	_	-IM AV				_
		TIME		DATE:	/	/	,	

- Detester not rusponsible for avuility of product
- Test Automation tost case generale atto
 by shouldn't be used always
 fined manual testing first then test
 automate after stable

 can't be used if near kep changing.
- 9 Anyone can't test software. Forly white box test can do

DATE: OCCUPATION DOX JEST 9. Performed by 1 enduser 3. same expectations external above on data baye and I grixion ban with . I 6. No algorithm test 6. No algorithm test testy, developer. data driven, functional Monday 5. lest time 7. trial and error etranslucent test I Sarre General applications s. Partly time 1. Some unowledge 2. Clear box test 1 full Unowkays. structural, code bone d internal boundary fort a. Algo Jest 4. base on jutarnal code s. max t/m 3. tester, developers GOOD LUCK"