21st Sept Opening account · In case, another type Process payment if (business...) is introduced, need to modify everything. else if (savings) Factory Dusign Pattern When? Creational, similar kind of object creation How? Abstract creation process example; Amazon products Electronic

If there is functional difference between each type, then we require factory design pattern. If no change in creation functionalites between the types, a simple property type will do. Parts of Factory Design Pattern: interface << ILogger>> 10g() factory Switch - Log level + creates Logger of log level type class - returns the logger object (3) Actual Logger classes which implement ILogger + Debughogger implements Ixogger > GrrorLogger > Injo wager 4 Usage: In Main() Create using Logger Factory

	Logger debug Logger - Logger Factory. Create Logger
	(LogLevel. Bebug)
	SOLID
	Single Responsibility - Creation
	OCP - Easy to extend without modifying
	DIP - High level module no longer relies on low know
	Problem in simple factory.
	- Factory still violates OCP.
	- As it has a switch statement to find
	Which object to create & creak it
	Factory Method Design Pattern.
•	Factory itself made into interface
00	Interfaces
	LI Logger Factory >>
	1
2	Factories
	- Debugfactory implements ILoggerFactory
	- Info Factory " "
	- Error Factory " "

3 Logger classes -same as before + DebugLogger implements ILogger + ErrorLogger implements ILogger > Injotogger implements Itogger (usage: Creak Loggerfactory & use that to creak loggers. ILogger Factory Info Factory ! = new Info Factory (); ILogger injologger = logger That The Injo Factory !. (reateLogger() ... So on - for all types Abstract Factory Design Pattern Cuisine factory Italian Indian 647 Chair Furniture factory 7066p Sofa Traditional Modern

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(0)	Mac Factory implements I Factory -> create machatton, win Factory implements I Factory -> create win button	text n,hf
) Ø	Mac Button implements I Button Win Button implements I Button	
	Mac Text implements IText Win Text implements IText	
3	Osage: • Usage: • Usage: • Usage: • Create buttons (it will create of that as) Mack	actor Bestla
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