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	But there Exists agap between these desired
	feature and available resources.
	and more with spending the storm of the
	Resources: -> OS, class library, application
45	qual me 1 months 2012 12 2200710 2011
4	finding the intermediate element in a
and the	framework or class Gbrary, select them
- 2	and fit them together for providing
Just to	pushicular services.
+	The informediate can be operations classes or
base with	Some other UML consmict.
4	it required high level operations.
*	Realizing Use Cases.
40 at ->	uses cases Meant for defining behavior
	of the System.
->	following step for realize the use cases.
1.	list the responsibilities guse case or operation
2.	Each Operation can have various responsibility
3.	Define the operation for each responsibility chuke
4.	Assign new lower level operation to classes.
103 to 1.5	Higher ad reum bords westended which
<del>-</del>	Designing Algorithms
. plotains	for operation we have to create Algoritum
	stips.
	Select law cost Algorithm.
2	Select appropriate data smichine
8)	De hoe new Internal Classes 4 operation if regul
4)	Assign operation to appropriate class.

The state of the s

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0	Selecting Algorithm
V	-) Pseudo code is used
	- choose simple 4 understand
	- Computational Complexity
	-> flexibility -> (Extended further)
	ratio rationalizada
2	Selecting Data Structure -> Array, Stack, acome
	printy avene ex.
(3)	Selecting internal classes and operations
	high level Tow level Operations > eperations
41.54	Operations ) eperations
	two true apiech and every mi at
9	Assigning Operation to classes.
	the second day of the second and are are
*	Recursing downword   high levellayer
X	top down approach I low level layer
*	The operation at high level layer invoked
	the operation at low layer.
-)	Rearring downward can be done by
	the state of the purpose of the purpose of the published and the p
()	functionality layers.
-)	high level fun chan broken into few of
	Small function having fewer operation.
4	Danger - if high level functionally broken
	o randomly then the lower level operation
	Can not be related to the classes.
2	
2)	Building & a since to Compt vomous ruch
	Building the system to Support various much
William .	needed Mechanism.

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	they provide the support to Perform
	wigh level responsibility.
-	pet significant despetanting pasts
+	In large cystem functionality layer an Miles
	with Mechanism layer.
PRODUCT OF	and support to bright office programmes of
	eg. updating student dam is Mechanism.
been	respectively and constant endants.
*	Refactioning
_	changes in internal Structure of Software
	to improve the design without
	altering the external functionality.
-)	rework on classes 4 operation.
->	Knu consuming but imp step.
Layer	the first the second of the se
*	Design optimization.
_ <del>- )</del>	first get logic correct then Ophimize
	focus on critical area
-	less likely to reusable.
	Legislands by Housest Line Landing
	Adding Associations for Efficient Access
- Litter	a same to the second second to the second
_ ¥	we use redundant association for esticiont
- Control	aceess.
	Liver to be by the set on the
(2)	0
The second secon	eliminate deadth path
)	narrow the season
-)	Invert the execution order for orphinication
	of the second se

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	China decimed value
(3)	Saving desired value
->	we avoid the recomputation.
	· Explicit apdate
	· Periodic- recomputation
	· Active volue.
	- in (d) quiting of the month by 12 1- 1-
*	Reitecotion q behavior.
	Reitication is a Mechanism in which some
	entity which is not an object is promoted
	to an object
_	making behavior as a object
	eg.
Calcord .	Algorithm -> Object
	so, we can use object in another algorithm and
	modify is.
+	Adjustment ginhentance.
(1)	Rearrange the classes and operation to
	increase inhentance
(	operations having Special Cones.
-	eg Shape -> reetang, circle, ellipse.
	inconsistent names.
-	es. similar altribute but have dibb have in dbb.
-	class, the same name and move to common -
1	anien
1	define only Synificant operation.
10	The second of the state of the second of the
1	Abstracing out common behaviour.  Triange
1	Shope.
	Triange circle

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5	
_	resusability Extensibility,
(3)	Lieb diliantia
	Delegation is a Mechanism in which only
-	the six on is a reconstruct one object are lectual
	the weful operation from one object are coched
-	and send them to another object.
	so, there is no danger of inheriting
Lank	Meaningless operations.
7	Organizing a class de sign.
0	Information hiding.
-	Internal specification is hiddren from outside
land the second	would
	(a) don't access tores in altribute
	(b) Défine interface
	co tride external object
	it is the same has been a summer and the same of the s
(2)	Coherence gentities
	entities - (class, Operation of Package)
	entity should not be a collections of
	anneladed parts.
Coo	The state of the s
(3)	fine-tunning package
	class model is partitioned into package
-	Arrange doely related clames in one package and unrelated in diff. package
	rackage and unrelated in diff. package
	AND COLUMN AND COLUMN AND AND COLUMN AND COL

	Date
* I	mplementation Modelling.
-) I	implementation is a final stage of
-) P	rogramming language is used design -> source code.
St	Ofine tuning of the classes  Ofine tuning generalizations
	associations
1 0	9 Preparing for lesting.
† h	ne tuning closses. Portition a class: eg Address to Homeddores
	and company addmin
-) po	Merge class: eg: EmployeeHome + employeelmp  Thing or Merco.
) b	mission or merge attributes:
W	e can represent entity to a altributes, classe
0	several related classes.
1	
+ 0	dding or Bemoving Creneralization.
16	edizing association.  + provide acress path 6/w 2 Objects.
1	t provide acress path 6/w 2 Objects.

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_	
(h)	one way ansociation. Pases pointer
(2)	two way association.
(3)	Implementing association object
	The second secon
+	Testing.
4	Identify the bug, and quality assurance
*	
	Bhae tuning generalizations
0	Unit testing or modules one checked
2	Integration - morged module on fester
3	System testing - complete integrated System testing
	(9) functional testing
partikinani	
37.42.45	the hundred free sections to the first terminal and the section of
*	Legaly System
-	Older, lorge complex computer based system
-)	business critical System
-	used for long period. coz tro hisky to replace
- 672.63	eg Air baltic (onho).
	Canada
-	Components.
- 3	System hardware
_	Supporting Software - older 05
9	Application Software Application data
5	Business process
- (0)	Business Policies and onles
	similar and mula
112207	

A STATE OF THE PARTY OF THE PAR	
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lagecy System-law	jered Technology
The last stage of	
Business process	* If one layer is Changed
TAPP. Sibtwan	then other layer also
Support Sollware	demand Change
[Hardware]	
The second his club	and 22012 sell published to
Technique used to	deal with legacy system.
	ingle on habita marketing very
O Revene engineering	the framework of the best of
1 wrapping	
1 Maintenance	the distinguished against the
	romanialle revolver 4
L. Reverse Engineering	9.
-) design recovery.	when you it should be
) data & orchitectural	l'information is Extraved
from source coo	
-) from application	requirements are extracted
-) less time required	
	realtonisted griding 4
	android the partitioned to
inpuls to reverse &	
2 programming code	
Data Data	brease (b. annings:
5 forms and sepo	80
(4) Database Sk	
(5) Documentari	00
(6) Application (	molerstanding
A Test cases.	Allegar galate, to the

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	of from revere engineering.
	O Models Clan model.
	@ mapping - State mode or intoraction model
	3 Logs - records the observation.
	money promote in white most in
	general trapel -
+	Building the closs model. (revone Engineering)
Task	The world continued to the said the sai
	Implementation recovery.
*	from application create an initial dan model
	The same than the same of the
(2)	Design recovery
*	recover association
	- Livers of the Control of the Contr
3	Analysis recovery
*	reduited ant information is eliminated
*	aggregation & composition is identified
*	Packages are created.
	- Maringer and 271
+	Building interaction model.
+	necessary to understand behavior of the system
	paragaigny grayay at there
*	achivity diagram build.
	Sequence diagram build.
*	form Sequence diagram State model is
	tom sequence diagram state model is
	Top and
-	Au stales ove identified by studying class

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	Revene Engineering tips
0	you have to Change the decision some time
(2)	use 41exible process.
57	If more into present then less judgement
	can be made by reverse engineer.
(4)	can't get accurate result
(3)	use consistent style.
	The latter of the state of the
2.	Wrapping
and the same of th	weapper is collection of interface that control
	access to the system.
-)	It consists of set of boundary class to provide
	tu introface
1	And that Boundary class call the existing
	System's Operation.
115	with both pro-handil 21 to contraction (1) I
3.	Maintenance
(1)	Irihal development - developer create software
(2)	Evolution, refactoring, apdates
(3)	Servicing -
(4)	Phaseout - thinking to derive the Subhan
(5)	closedown - removed from Market.
	Solution States and St
	Liver and the Maleines of manufactural manufactural and the second of th
	The Control of the Co
	was sure parts of the sure of