2014 K.M.S

الدرس: اليهوم: التاريخ: ١ ١ Create Index Set index Probertied Initialize Index (DeveloPer) (User) Close Index Search query Inselt in Database Delete from Database Hodify in Data base ADmin hade

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Q2)8+ructural Patterns:	
DAdapter: it is used to imple ment the maix	methods
of search engine easily search engine is compl	exbut
we provide a simple implementation of interface	Containing
index (norament), search (query) as an adapter	4-0 the
ehgine.	
2) Iterator: it is used in the Resultset it	affows.
the user to get the Resultitems which refre	esents.
the documents mat Chingthe query one by one.	
Acreational Patterns:	index.
DBuilder: it is used to build the (B+) tree	2. for
the first time for each index. It is main!	Yused to
build the Index sear Cher which is costyt	a be built
It may also be used to detete the index sea as this operation is also costy	rcher
as this oferation is also costy	K.M.S
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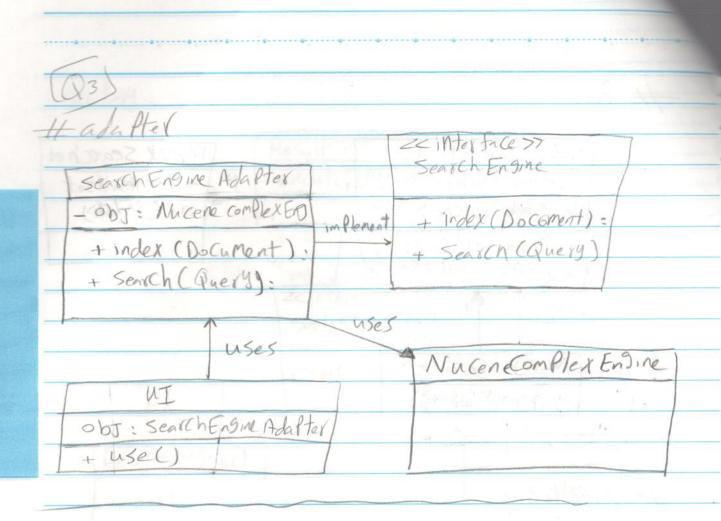
2) object fool: it is used as a fool for index
searchersinorder to provide index searcher
quickly and take it again after finishing its
work to avoid the Long time taken increating and
deleting it it creates minimum number of objects
initinthe begining and when it is nearly empty it
Creates new objects without exceeding the maximum
3) Singleton: it is used in the Index writer ob Jeg.
It ensures that there is only one object of the
index writer inorder to keefthe (B+) tree
Consistent.



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behavioral Pat	tern:	
S+rategy: it	is used in	choosing the profer sorting
algorithm Cord	Le resultse	of it allows the result
col La Claste a	(Ynamica)	Y the sorting algorithm
accordinate +	equery wh	ere 2 algorithms are
implemented ce	Paratel Y an	done of them is close hat
runtime accor	ding to the	query that there suff set
regults from	ĵ.·	
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Heratol

Result item

- Don Current
- Yele VanCe No
- date

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List

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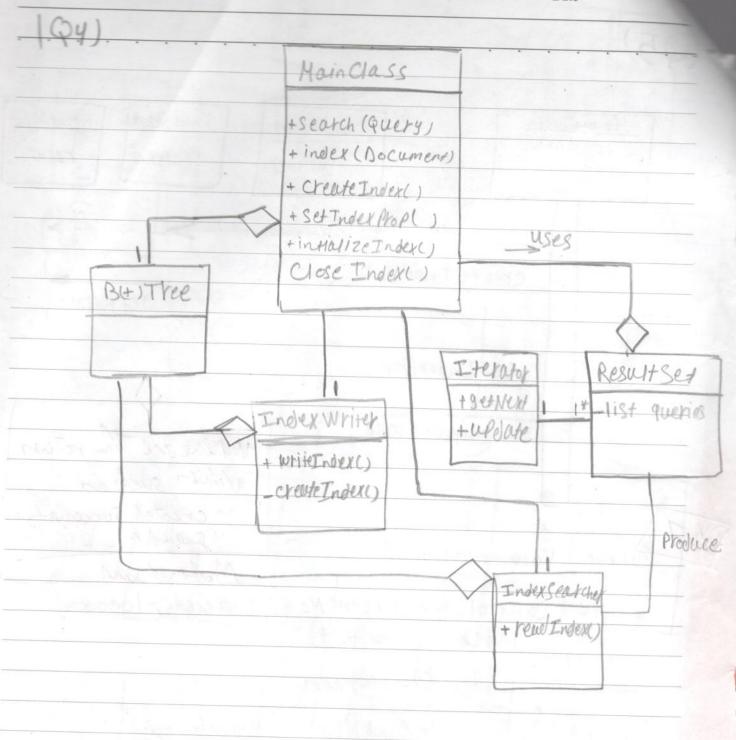
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# Paol .	99999999
List < Index Seascher > Dusy List < Index Seascher > Free + 9eto bJect () = + un used (Index Seascher)	Index searched 1* + 9et resultset (index)
Mucene Engine + Search (Quay)	
/-	
# SingHon,-	
Index write()	
+ Set Documental	
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statey: Result Set +excutestrategyl) exinterface>> Soft Stratery + Sort () As Ceasing Sort Des Gending sort +50(+L) + 50(+()

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Love is like a dying ember only memories remain

Resulset Index Secretar Hain Class Control IndexWriter Searcher result Writer scarch(query) create Index() get Resulty Set Index Prop (Prop) index (DOC) Walnegre the return Vahies such as " created Succentity" 11 found " _. Public Void main() { N Shomed Saul if (control, get current No BR Indexed > 1000000)

IndexSize = RED

else.

indersize=green

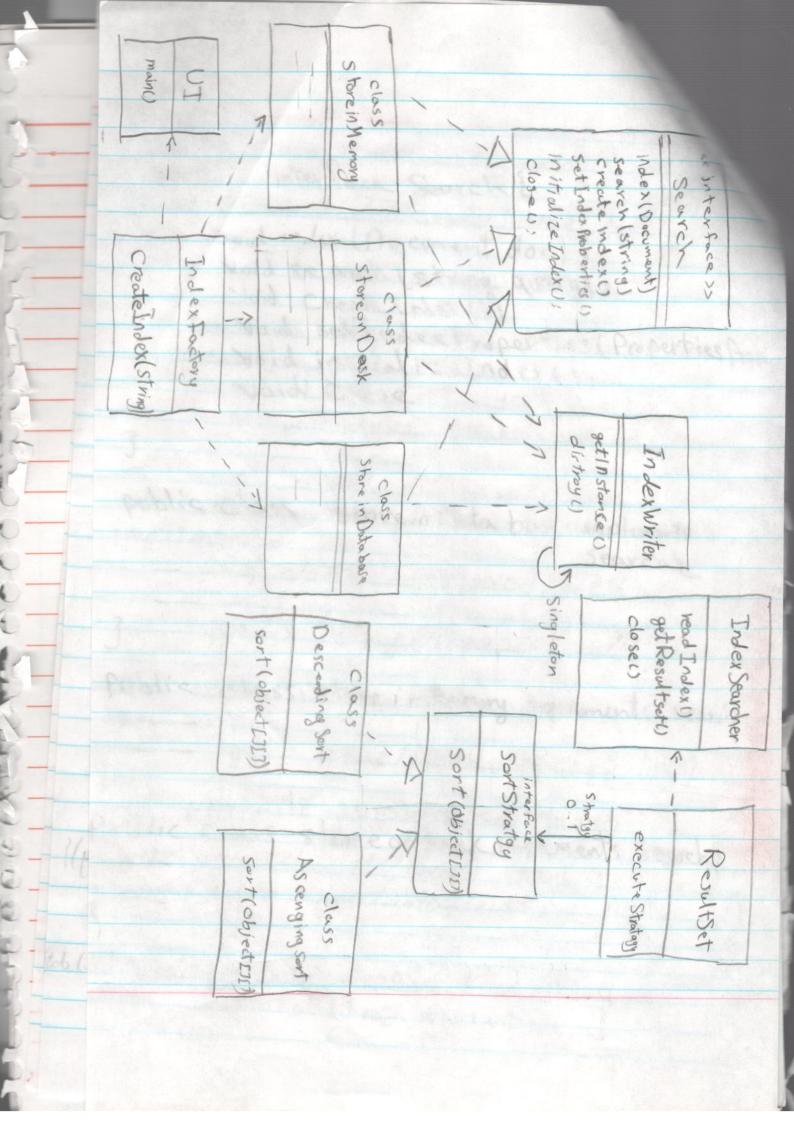
if (Control get CUTNUM of Running 799)

Work Load = red

Plse Work Load = green.

This is Completely Wrong We need Design Pattern for Monitoring

and Sketan for only that not for the Whole System !!



THE LIPEDENT THAT I THE STATE OF THE STATE O public interface Search ? 1777 god to took to void index (Do coment doc) ; void se arch (string quary): Void Create Index U; Void set Index Properties (Properties Prop wood initializeIndex(); void close Thought you The Assertations a 28 and ing who the reference stone & Buckey public class store in Data base implements Sort Strate an 3 proposa probassion Public class store in Memory implements search 1000 1 7024 Preside 250/ D. 20/dug private Sortstrategy strategy Public class store on Desk implements Search? + 1012 = 1889 + 0178 - 2114 Pablic Vaid execute strately bior silder strategy Sortleatay

ublic intenface sortstrategy! Void Sort (object [II] data); (Broup pairtz) Novo oz box Set gor Publica class Ascending Sort implements void sort object [][] data) ju 11 Ascenging according public class Descending sort implementallows sort Strategy void sort (object [II] data) ? Search Il descending according Public closs store in Memory implements scarch Public class Resultset ! Private Sort strategy strategy Public ResultSet SortStratgy strategy) ;
this . Strategy = stratgy; public void execute Strategy/object[1] dos wat for the Whole System !!

Public class Index Factory () public Search creat Index (string type) if (type = = noll) 1 i return noll; else if (type. equals Ignore Care ("Disk")) 1 ty webs return new Storeon Dasker; else if type. equals Ignore Case ("Database") { Providence Store in Data base (); else if (type equals Igrove Case ("Memory"))) return new store in Memory ();

public class Index writer & solo sildua logiprivate static Index writer is tance = null; Set private Indexwriter () () 11 uly 2007 SECOND PERMONENTED INTERPREDICTION Public static Index Writer get Instance() { if linstance == null) { instance = new Indexwy text) return instance;) sept ato a store in a bata base ! public static void destroy 1) Me prompt Joseph group beloups oggt) fi 32/9 return room to to the Palm Membray 13 ildurg. private Sort Strategy Strategy this strategy = + Tratay; public Void execute Strategy/ Object (10) de strategy sort (Hatm);