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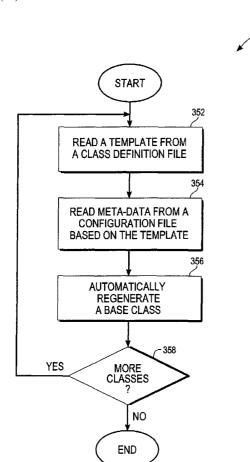
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[Continued on next page]

(54) Title: SYSTEM TO AUTOMATICALLY REGENERATE SOFTWARE CODE



(57) Abstract: A method and system are provided to automatically regenerate software for an object relational mapping system. For each class, the system reads class information (352); reads meta-data based on the class information (354); and automatically regenerates the class based on the meta-data without overwriting associated custom code (356).

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ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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#### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/41074

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : G06F 7/00, 9/44  US CL : 717/108; 707/103R  According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 717/108, 120, 121; 707/100, 101, 102, 103R, 103X, 103Y, 103Z, 104.1						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST (US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB)						
C. DOCT	JMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	ppropriate,	of the relevant passages	Relevant to claim No.		
X	WO 99/32996 (NG et al.) 01 July 1999 (01.07.1999)			1-7, 13-24, 30-36		
A	US 6,279,008 B1 (TUNG NG et al) 21 August 2001		1), columns 4-14.	1-7, 13-24, 30-36		
A	WO 99/33006 (SHARMA et al.) 01 July 1999 (01.07.1999), pp. 3-27.			1-7, 13-24, 30-36		
Further	documents are listed in the continuation of Box C.		See patent family annex.			
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of		"T" later document published after the ir and not in conflict with the applicati principle or theory underlying the in		out cited to understand the		
particular		"X"	document of particular relevance; the cleonsidered novel or cannot be considered	aimed invention cannot be d to involve an inventive step		
"L" document establish t specified)	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y"	when the document is taken alone document of particular relevance; the cl considered to involve an inventive step with one or more other such documents,	when the document is combined		
"O" document	referring to an oral disclosure, use, exhibition or other means		to a person skilled in the art			
"P" document published prior to the international filing date but later than the priority date claimed		"&"	"&" document member of the same patent family			
Date of the actual completion of the international search		Date of r	nailing of the international sear	ch report		
16 June 2005 (16.06.2005)		Authoriz	/ / //.			
Mail Stop DCT Attack TSA /TIS						
Mail Stop PCT, Atm: ISA/US Commissioner for Patents		Tuan Q.	Dagar /			
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Alexandria, Virginia 223 13-1450 Facsimile No. (703) 305-3230			77			
Form PCT/ISA/210 (second sheet) (January 2004)						

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/41074

Box No	II Observa	tions where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This into	mational search re	port has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
1.	Claims Nos because they	relate to subject matter not required to be searched by this Authority, namely:		
2.	because they an extent tha	8-12 and 25-29 relate to parts of the international application that do not comply with the prescribed requirements to such it no meaningful international search can be carried out, specifically:		
3.	Claims Nos.	: are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No	III Observa	tions where unity of invention is lacking (Continuation of item 3 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows:				
1	searchable cl As all search payment of a As only some	ed additional search fees were timely paid by the applicant, this international search report covers all aims.  able claims could be searched without effort justifying an additional fee, this Authority did not invite ny additional fee.  e of the required additional search fees were timely paid by the applicant, this international search report hose claims for which fees were paid, specifically claims Nos.:		
4.		additional search fees were timely paid by the applicant. Consequently, this international search report is the invention first mentioned in the claims; it is covered by claims Nos.:		
Remark	on Protest	The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.		

INTERNATIONAL SEARCH REPORT	International application No. PCT/US04/41074
Continuation of Box II Reason 2: Claims 8-12 and 25-29 contain limitations that lack antecedent bases, rend For example, there is no antecedent basis for each of the following terms: i. "the configuration file" in claim 8, line 1; ii. "the second plurality of classes" and "the data object" in claim 9, lines iii. "the second plurality of classes" in claim 10, lines 1-2; iv. "the columns that are requested from the database and populated" in v. "the attributes [that] are persisted to the database" in claim 12, line 3 Claims 25-29 are system versions of the claimed methods discussed above	1-3; a claim 11, lines 2-4; 3.
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