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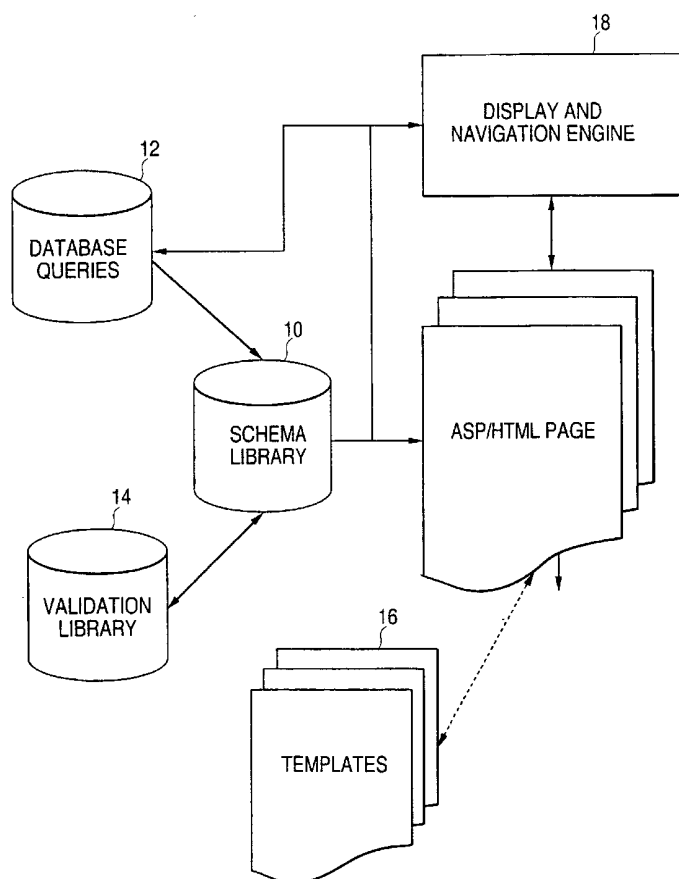
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[Continued on next page]

(54) Title: FORMS CREATION METHOD AND E-COMMERCE METHOD



(57) Abstract: An integrated development method for creating forms, comprising the steps of: storing at least one schema for a form in a first file at a computing resource, wherein the schema comprises minimal user interface representations; accessing at least one template of a form in at least one second file separate from the first file at a computing resource, wherein each of the templates comprises a user interface representation of the form; selecting one of the at least one template and one of the at least one schema; and creating at least one linking file that links the selected schema and the selected template. A system and method for performing actions in an e-commerce environment is also provided.

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(81) **Designated States (national):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/31221

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F17/24 G06F17/60 G06F9/44

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)

IPC 7 G06F

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 practical, search terms used)

WPI Data, EPO-Internal, PAJ, IBM-TDB, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 95 07510 A (JETFORM CORPORATION) 16 March 1995 (1995-03-16) page 1, line 15 - line 33 page 2, line 19 - page 3, line 5 page 6, line 1 - line 18; claims 11,12 ---	1-40, 64-67, 90-104, 119
A	BOSAK: "XML: The Universal Publishing Format" SGML/XML EUROPE '98, 19 May 1998 (1998-05-19), pages A1-C17, XP002128575 Paris, FR pages A-6 - A-8 pages B-2 - B-5 --- -/--	1-40, 64-67, 90-104, 119



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *8* document member of the same patent family

Date of the actual completion of the international search

18 October 2001

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/31221

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KRISTENSEN: "Template resolution in XML/HTML" COMPUTER NETWORKS AND ISDN SYSTEMS, vol. 30, 1998, pages 239-249, XP004121423 NL section 1.2 ---	1-40, 64-67, 90-104, 119
A,P	US 5 995 756 A (HERRMANN) 30 November 1999 (1999-11-30) the whole document ---	41,42
A	US 5 802 262 A (VAN DE VANter) 1 September 1998 (1998-09-01) column 3, line 8 - line 40 column 4, line 22 -column 5, line 36 ---	43-45
A	US 5 913 214 A (MADNICK ET AL.) 15 June 1999 (1999-06-15) the whole document ---	46,47
A	FAN ET AL: "FormPlus: A Form Authoring Toolkit" PROCEEDINGS OF THE FOURTEENTH ANNUAL COMPUTER SOFTWARE AND APPLICATIONS CONFERENCE, 31 October 1990 (1990-10-31) - 2 November 1990 (1990-11-02), pages 255-260, XP000223616 Chicago, IL, US the whole document ---	48-54
A	EP 0 481 784 A (MOORE BUSINESS FORMS, INC.) 22 April 1992 (1992-04-22) the whole document ---	55-63
A	US 5 802 253 A (GROSS ET AL.) 1 September 1998 (1998-09-01) the whole document ---	68-89, 105-107
A	BOONE: "Concept features in Re:Agent, an Intelligent Email Agent" PROCEEDINGS OF THE 2ND INTERNATIONAL CONFERENCE ON AUTONOMOUS AGENTS, 9 - 13 May 1998, pages 141-148, XP000887407 Minneapolis/St. Paul, MN, US ISBN: 0-89791-983-1 the whole document ---	68-89, 105-107

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/31221

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	TAKKINEN ET AL.: "CAFE: A Conceptual Model for Managing Information in Electronic Mail" PROCEEDINGS OF THE ANNUAL HAWAII INTERNATIONAL CONFERENCE ON SYSTEM SCIENCES, 1998, pages 44-53, XP000775829 the whole document ---	68-89, 105-107
X	WO 99 17240 A (SECURITY FIRST TECHNOLOGIES, INC.) 8 April 1999 (1999-04-08) page 2, line 26 -page 3, line 24 page 4, line 18 -page 6, line 8 page 13, line 21 - line 32 -----	108-118

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 00/31221

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report 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. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to 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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-40,64-67,90-104,119-130

Method, system & computer program product for creating forms

2. Claims: 41,42

Method for publishing forms

3. Claims: 43-45

Method for creating a regular expression file

4. Claims: 46-47

Navigation engine computer program product

5. Claims: 48-54

Method for forms processing, including user input validation and correction

6. Claims: 55-63

Runtime environment method for electronic forms application

7. Claims: 68-89,105-107

Method and system for performing actions on documents

8. Claims: 108-114,115-118

Computer program product and method for integrated development environment

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/31221

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