

SER no.028; Appendix : A1 Project Members and History

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journal or publication title	Senri Ethnological Reports
volume	28
page range	211-218
year	2002-03-15
URL	http://hdl.handle.net/10502/1440

Appendix A1

Project Members and History

Project Members (from September, 1995 through March, 1999):

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Representative:

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Representative:

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Robert Rieger	(Present: SpeechWorks International, Inc., NY, USA)
Wendy Martin	(Present: Center for Children and Technology, NY, USA)
Kirsten Bochner	(Present: Strategos Co.,Ltd., London, UK)
Nony Korf Vidal	(Present: Cornell Information Technologies, NY, USA)

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Dr. Jung-Kook Hong (E-mail: hong@jp.ibm.com)

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Masahiro Kusaba (Present: Daiwa Institute of Research, Ltd., Tokyo, Japan)

Takayuki Kushida

Younosuke Furui (Present: Dept. of Intelligent Systems, Kyushu University, Fukuoka, Japan)

Amane Nakajima (Present: IBM Global Services Japan, IBM Japan, Ltd., Tokyo, Japan)

Richard Brader (IBM UK, Ltd.)

Kazue Nakajima Corporate Support Program, IBM Japan, Ltd., Tokyo, Japan

(Present: Corporate Community Relations, IBM Japan, Ltd., Tokyo, Japan)

Project History:**Acronym**

NME:	<i>National Museum of Ethnology</i>
BM:	<i>The British Museum</i>
CU:	<i>Cornell University</i>
IBM-J:	<i>IBM Japan, Ltd.</i>
ACM:	<i>Association of Computer Machinery</i>
IPSJ:	<i>Information Processing Society of Japan</i>
GDM:	<i>Global Digital Museum</i>
Dienst:	<i>Distributed Interactive Extensible Network Server for Techreports</i>
K-12:	<i>Kindergarden-to-12</i>
HRAF:	<i>Human Relations Area Files</i>
GUI:	<i>Graphical User Interface</i>

1995

- Sep. 7 Joint research project GDM was started by the initial members NME and IBM-J.
Conventional museum information services and educational services were studied with a special focus on ethnology through creating an experimental home page.
- Sep. 25-28 Joint meeting, CU and IBM-J, Tokyo.
Cornell Digital Library Dienst and interactive multimedia technologies were studied.
- Oct. 6 CU joined the GDM members.
- Oct. 21 Joint meeting, NME and IBM-J, Osaka.
Project goals and direction were confirmed. Project operation was discussed, and a working group was organized for content creation and prototype development.
- Oct. 25 Working group meeting, NME and IBM-J, Osaka.
- Nov. 2 Working group meeting, NME and IBM-J, Osaka.
- Nov. 7-9 Joint meeting, CU and IBM-J, Ithaca, NY.
Dienst-based architecture and evaluation method were discussed.
- Nov. 24 Working group meeting, NME and IBM-J, Osaka.
- Nov. 30 Server was installed at IBM-J, Tokyo, running Dienst Version 4 released by CU.
- Dec. 1 Working group meeting, NME and IBM-J, Osaka.
- Dec. 6 Working group meeting, NME and IBM-J, Osaka.
- Dec. 8 Working group meeting, NME and IBM-J, Osaka.
- Dec. 18 Working group meeting, NME and IBM-J, Osaka.
- Dec. 20 Server and clients were installed at NME, Osaka, and connected to the Internet.
Client was installed at CU, Ithaca, NY.

- Dec. 21 Joint meeting, NME and IBM-J, Osaka.
Project implementation plan was discussed.
- Dec. 26 BM joined the GDM members.
Installation of a common test-bed at BM was planned.

1996

- Jan. 26 Draft of project implementation plan was prepared.
- Feb. 15-16 Joint meeting, NME, CU, BM and IBM-J, London.
Project goals and implementation plan were confirmed.
Initial GDM prototype development was started using Dienst Version 4.
- Feb. 28-Mar. 1 Joint meeting, NME and IBM-J, Tokyo.
Requirements of museums were identified and prototype functions were defined.
- Apr. 4-5 Working group meeting, NME and IBM-J, Osaka.
- Apr. 24 Working group meeting, NME and IBM-J, Osaka.
- Mar. 6 Use of HRAF manual published in CD-ROM media was approved by HRAF, Inc., New Haven, CO, USA.
- May.10 Server and clients were installed at BM, London, and IP address was registered for Internet connection.
- Jun. 25 GDM prototype (Version 1) was developed.
- Jun. 27-Jul. 26 GDM prototype was evaluated by the GDM members, museum staff, and schoolteachers at NME, BM and CU.
- Jul. 5 Working group meeting, NME and IBM-J, Osaka.
- Jul. 28 IBM Research Report was published. "Global Digital Museum (GDM): Prototyping a Virtual Museum on the Internet for Museum Education"
- Aug. 1 Working group meeting, NME and IBM-J, Osaka.
- Aug. 16 Working group meeting, NME and IBM-J, Osaka.
- Aug. 22 Working group meeting, NME and IBM-J, Osaka.
- Aug. 22 Joint meeting, NME and IBM-J, Tokyo.
GDM prototype evaluation results were discussed.
- Aug. 26-30 Technical session, NME, CU, BM and IBM-J, Tokyo and Osaka.
GDM prototype evaluation results were reported, and an action plan was discussed for the prototype extension.
According to the discussion, the development of GDM prototype (Version 2) was started to enhance prototype function and extend the contents focusing on K-12 school users.
- Sep. 16 GDM mailing list was created at CU for member's communication.
- Oct. 1 Joint meeting, NME and IBM-J, Osaka.
Status of GDM prototype development was discussed.
- Oct. 5 Three technical papers were presented at the IPSJ Annual Convention, Osaka, Japan.
- "Global Digital Museum (1) Concept"
- "Global Digital Museum (2) Network Architecture"

- "Global Digital Museum (3) Application of Museum Education"
- Oct. 24 Technical paper was presented at IPSJ Workshop on Multimedia Communication and Distributed Processing System, Iwate, Japan.
"Experiments of Museum Education by WWW Collaboration"
- Nov. 12 Working group meeting, NME and IBM-J, Osaka.
- Nov. 28 GDM prototype (Version 2) was developed and installed at NME and BM.
- Dec. 20 Working group meeting, NME and IBM-J, Osaka.
- Dec. 25 Joint meeting, NME and IBM-J, Osaka.
GDM prototype was demonstrated, and contents extension plan was discussed.

1997

- Jan. 17 Working group meeting, NME and IBM-J, Osaka.
- Feb. 26 Joint meeting, NME and IBM-J, Osaka.
Prototype was demonstrated to BM and CU on-line.
- Mar. 11 Working group meeting, NME and IBM-J, Osaka.
- Mar. 12 Excellent Paper Award of IPSJ Annual Convention was received.
"Global Digital Museum (1) Concept"
- Mar. 13 GDM prototype was evaluated by BM members.
- Mar. 14 Joint meeting, NME and IBM-J, Yamato, Japan.
GDM prototype evaluation results were discussed.
- Mar. 24 GDM Prototype Users Guide was prepared.
- Mar. 24 Working group meeting, NME and IBM, Yamato, Japan.
- Apr. 22 GDM prototype was transferred to NME and BM.
- Jun. 3 Working group meeting, NME and IBM-J, Osaka.
- Jun. 12 Joint meeting, NME and IBM-J, Osaka
Direction of extending GDM prototype to GDM/Museum Education was confirmed, and action plan was discussed.
- Jun. 20 Working group meeting, NME and IBM-J, Osaka.
- Jun. 26-28 Joint meeting. CU and IBM-J, Ithaca, NY.
Draft of action plan for GDM/Museum Education was prepared.
- Jun. 30-Jul. 4 Joint meeting, BM, CU, and IBM-J, London.
Project goals and direction was planned for GDM/Museum Education.
Re-building GUI of GDM prototype was started for GDM/Museum Education.
- Jul. 8 Working group meeting, NME and IBM-J, Osaka.
- Jul. 24 GUI of GDM prototype was re-designed.
- Aug. 1 Working group meeting, NME and IBM-J, Osaka.
- Aug. 2 GDM prototype was evaluated by schoolteachers in Osaka.
- Aug. 25 Working group meeting, NME and IBM-J, Osaka.
- Sep. 19 Working group meeting, NME and IBM-J, Osaka.
GUI design was revised according to feedback from museum members.

- Integration of the GUI into prototype was started.
- Sep. 24-26 Two technical papers were presented at the IPSJ Annual Convention, Fukuoka, Japan.
 “Global Digital Museum (4) Hyper-link Data Model”
 “Global Digital Museum (5) Global Search”
- Oct. 21 GUI was integrated to GDM prototype and installed at NME and BM.
- Oct. 27 GDM prototype was evaluated by schoolteachers in Osaka.
- Nov. 18-19 Joint meeting, NME and BM, London.
 Museum education was discussed.
- Nov. 18-21 Joint meeting, BM and IBM-J, London.
 GDM prototype was integrated with evaluation tools.
- Nov. 28 Joint meeting, NME and IBM-J, Osaka.
 GDM prototype was discussed.
- Dec. 1- 8 Joint session, NME, BM, CU and IBM-J, Yamato, Hakone and Osaka, Japan.
 GDM prototype evaluation procedure and GDM extension and plan of activities were discussed.

1998

- Feb. 17-23 GDM prototype was evaluated by museum experts, schoolteachers and children in Japan, UK and USA.
- Mar. 4 Prototyping of GDM/Museum Education was completed and released to GDM members.
- Mar. 24 GDM prototype was demonstrated to WTEC Digital Information Organization Study Team, National Science Foundation, USA, at IBM-J, Yamato, Japan.
- Mar. 25 GDM prototype was demonstrated at Asia Pacific Digital Library Consortium '98, Yamato, Japan.
- Mar. 27 Working group meeting, NME and IBM-J, Osaka.
- Mar. 31 GDM prototype evaluation results were analyzed and evaluation report Global Digital Museum Prototype Evaluation was prepared.
- Apr. 3 Working group meeting, NME and IBM-J, Osaka.
- Apr. 13 Joint meeting, CU and IBM-J, Ithaca NY.
 Future direction of GDM was discussed.
- Jun. 2 Working group meeting, NME and IBM-J, Osaka.
- Jun. 26 Technical paper was presented at an international conference, ACM Digital Libraries '98, Pittsburgh PA.
 “Global Digital Museum: Multimedia Information Access and Creation on the Internet”
- Aug. 7- 8 Working group meeting, NME and IBM-J, Osaka.
- Sep. 14 Prof. N. Ishige, Director of NME, announced GDM project at a press conference with journalists. GDM prototype was demonstrated at the conference.

- Article: Asahi Newspaper (Nov. 28, '98)
- Sep. 14 GDM project home page was open to the public at NME, BM and CU.
- Sep. 16-18 GDM prototype was demonstrated at IBM Fair '98 Exhibition, Makuhari, Japan.
- Oct. 6 Technical paper was presented at the IPSJ Annual Convention, Nagoya, Japan.
"Global Digital Museum (6) Prototype Evaluation"
- Dec. 25 GDM server was transferred from IBM-J to NME.
- Dec. 25 Working group meeting, NME and IBM-J, Osaka.

1999

- Jan. 14 Keynote speech at Symposium on Informatics'99, IPSJ, Tokyo.
Working group meeting, NME and IBM-J, Tokyo.
- Jan. 19 Working group meeting, NME and IBM-J, Osaka.
- Feb. 5 Working group meeting, NME and IBM-J, Osaka.
Discussion of extensional use of GDM prototype was started for museum exhibition.
- Apr. 1 An article was published in One Percent Club News, No. 46, Japan Federation of Economic Organizations.
"Global Digital Museum Project"
- Apr. 17 Technical paper was presented at the American Educational Research Association Annual Meeting, April 17-19, Montreal, 1999.
"Design and Evaluation of a Collaborative Global Digital Museum Environment"
- May 1 GDM was introduced as a research project in education and science area in One with Society (A Good Corporate Citizen): Introduce for Corporate Support Programs Activities for IBM Japan.
- Jun. 12 News article was appeared in Nikkei Newspaper.
- Jun. 23 News article was appeared in Yomiuri Newspaper.
- Jul. 1 GDM project was introduced in IBM Think Research Magazine.
- Jul. 1 GDM project was introduced in the Book and the Computer, Fall Edition, 1999, Dai Nippon Printing Co., Ltd.
"A New Project in National Museum of Ethnology"
- Aug. 1 GDM was introduced describing a case study of computer use for infrastructure of the society in IBM Japan Corporate Guide (Company Profile) - 1999.
- Sep. 9 Exhibition of GDM prototype was started at NME Special Exhibition. (-Jan. 11, 2000)
- Sep. 17-18 GDM prototype was demonstrated at the Symposium on Humanity and Computer '99, Osaka, Japan, organized by Special Interest Group on Computer and Humanity of IPSJ.
- Sep. 22 Technical paper was presented at the International Cultural Heritage Informatics Meeting, Sep. 22-26, 1999, Washington, D.C.

- “Designing Across Disciplines: Negotiating Collaborator Interests in a Digital Museum Project”
- Nov. 1 Technical paper was published in D-Lib Magazine, November 1999, Vol. 5 No. 11.
- Nov. 30 “Project Soup: Comparing Evaluations of Digital Collection Efforts”
Panel discussion at the Congress of IT, Arts and Cultural Heritage, Rome, Italian Cultural Heritage Ministry and IBM Italy Foundation.
- Dec. 1 “IT, Internet and Museum”
Article was appeared in Mugendai, No. 107, a promotion magazine published by IBM-J.

2000

- Jan. 9-11 Joint session, NME, CU, BM and IBM-J, Atami and Osaka, Japan.
- Feb. 7-14 On-line evaluation of GDM prototype was performed in school classes at Rokko Island High School, Kobe, Japan, and at NME.
- Feb. 28 GDM project was introduced in the promotion CD-ROM for 2000 Vision of IBM Research, Tokyo Research Laboratory.
- Mar. 1-3 GDM prototype was demonstrated at IBM Fair 2000 Exhibition, Makuhari, Japan.
- Sep. 1 GDM on-line demonstration site was open to the public at NME.
- Sep. 1 News article was appeared in Compass, a newspaper for IBM Japan's employees.
- Sep. 1 GDM project was introduced in Creating the Future, published by IBM Research, Tokyo Research Laboratory.
- Sep. 28 Prof. N. Ishige, Director of NME, announced NME GDM on-line demonstration site was open as one of the results of GDM project at a press conference with journalists.