
Project Name : Operations Springboard Training Application
Client : Operations Springboard
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BACKGROUND:

Currently, Resource Room is used to train and present applicants on how to access relevant resources using the tools provided by Operation Springboard. These tools are managed by a central administration team who has full control of the resource source code. Source file contain following media types;

- Flash Menu List
- PowerPoint Presentations
- Avi media Files
- DVD disks (Movie clips, Public Domain access files)
- Smart board application

Applications used

- QuickTime Player (free download)
- DivX Player(free download)
- Flash player (free download)
- Power point (office 2007)
- Smart Board tool (H/W, S/W solution, Licenses)

SCOPE:

To build a software solution that will operate on an approved remote local LAN environment, replicating and/or enhancing the current presentation model.

To develop a system to allow for the secure redistribution of approved training materials. The following formats will need to be supported:

- PowerPoint
- Macromedia /Flash (.swf)
- Movie/Video files (.avi, .vob, .mov, and externally circulated dvd's)
- Sounds (.wav)
- Images (jpeg, gif)

- Smart Board
- Font

The System will be able to push and pull the related content from the main server to remote internal and external satellite sites that are deploying the same training materials

OBJECTIVES:

To develop a solution by which multimedia content can be distributed and managed in a secure and decentralized environment

DELIVERABLES:

- 1) UI interface to access the program training content
- 2) Administrative interface to manage the following modules:
 - a) Manage Users
 - b) Manage Sites
 - c) Manage Programs
 - d) Manage Sessions
 - e) Manage Session Files
 - f) Manage Movies
- 3) Internal Sites
 - a) Instant Data Transfer
 - b) Schedule Data Transfer
- 4) External Site
 - a) Export Data
 - b) Import Data
- 5) Auditing
 - a) Audit Trail
- 6) Reports
 - a) Audit Log
 - b) Data Transfer Log
 - c) Export Log

PROCESS OVERVIEW:

PROCESS FOR CONTENT UPLOAD

1. Materials are developed by the corporate program area using Ms Office Power point and Smart board Application.
2. Materials are reviewed and vetted with program supervisor to ensure that materials are Properly referenced in the Power Point media
3. Materials are approval
4. Materials and embedded references are validated and uploaded through the application. The material/content is tagged as new content and scheduled for update to remote sites.

Existing File Hierarchy

Program → Session(s) → Session File(s)

5. Application posts the updates to the remote sites as per the dates and times predefined in schedule transfer module.
6. If any of the content(s) requires immediate updates to remote sites, it is done thru Instant Data Transfer process.
7. Administrator checks to make sure the training materials are working properly with all the embedded materials

PROCESS FOR UPDATES OF CONTENT TO REMOTE SITE(S)

1. All content updates are pushed to remote sites at predefined date and time during the week.
2. If a server is offline while an update occurs, the following sets of steps occur internally to ensure that remote sites receive the updated content:
 - a. When the application at the remote site is running, it will check for content in local repository
 - b. A copy of the content is made to a temporary file capped "presentation" and is available for use in a training session
 - c. System can update the content in the database at the remote site(s), directly to the database tables without interfering with the running presentation
 - d. Once presentation is done in the training environment, the system will discard the version in the "presentation" folder to trash
3. For external sites that require content to be transferred, the same is accomplished thru Export & Import process.

TECHNOLOGY REQUIREMENTS:**Hardware Requirements**

Processor	:	Pentium Dual Core or higher
Memory	:	(a) 2 GB RAM or higher on Database Server (b) 1 GB RAM or higher on Workstations
Network	:	Connectivity

Software Requirements

Database Servers	:	(a) SQL2005 Standard Edition for OS Hub (b) SQL2005 Express Edition for OS Client(s)
Operating System	:	(a) Server: Microsoft Windows Server 2003 (b) Workstations: Microsoft Windows Server 2000 Microsoft Windows Server 2003 Microsoft Windows XP Microsoft Vista Microsoft Windows 7
Environment	:	(a) .Net Framework 3.5
Technology	:	(a) .Net Windows Forms Applications (WFA) (b) WPF

IMPLEMENTATION PLAN:

- (1) Design and Prepare database model
- (2) Design & Develop Application in WFA using .net framework 3.5
- (3) Database design and development
- (4) Support

RESOURCES USED:

ISTCL Development team:

Project Manager & Project Coordinator	: Gim Mutthu
Application Developer & Tester	: Sathya Sivadas
Database Design, Development & Administration	: Hemal Shah
Business Analyst	: Nadini Doodhnath