

Batch Id : CS85/2006/022








SYNOPSIS























Download Manager

Objective

To design and implement a download manager that is compliant with multiple browsers and provides its users fine-grained control over downloading.

Projected Features

-  Multiple browser support
-  Multi-threaded
-  Automatic file segmentation and multipart downloading for faster download.
-  Dynamic file segmentation
-  Multi-channeled file downloads
-  Scheduled downloading – schedule download at a later time, optionally followed by auto-shutdown, etc.
-  Comprehensive error recovery and resume capability to restart broken or interrupted downloads due to lost connections, network problems, computer shutdowns, or unexpected power outages.

-  **Site grabber feature** - download required files that are specified with filters
-  Queue downloads and assign priorities for “fine grained” control over downloading
-  Stand-alone or can be used as a plug-in to the browser
-  Graphical User Interface
-  Download relevant file from multiple mirror sites
-  **Download control** – support pausing, resuming etc.
-  Streaming support
-  **Zip Preview** - preview the contents of 'zip' compressed files before to download them
-  Support a wide range of file formats – MIME, DIME, etc.
-  RSS feeds
-  **Conditional Get** - Manage caching
-  Upload services
-  Support proxy servers, authentication
-  Statistics for each download
-  Interoperate with search engines
-  **Web services support** – locating and consuming web services
-  **Built-in XML validator** - validate xml files against its schema so that users can ignore ‘invalid’ files
-  XML configuration files which serve as rcsripts for the download manager
-  **Redirection** – Download to a specified location / device.
-  File encryption and decryption support
-  ftp : Download entire directory structure as is from the server
-  Save streamed media

- ✚ **Media Preview** – A thumb of the video files
- ✚ User controlled threads – users can create threads and assign jobs to them
- ✚ Named transactions to query status
- ✚ **Clustered download** – parallel download through cooperation among download managers in different systems on the network, onto their local memory and then integrated on the target machine later
- ✚ **File system monitor** – which helps prevent automatic updates being fired up and clogging up the bandwidth
- ✚ **Programming interface** – macros, pattern matching (ERE, TRE, BRE) for filtered downloading
- ✚ **File Versioning** – when files with similar content are downloaded, only one copy is stored; others are retrieved by changing only those parts that differ from the single copy that is stored.
- ✚ **Collage** – Merge multiple files downloaded into one xhtml/html file through a drag and drop interface (say an album or a newsletter created by inserting various files at appropriate places)
- ✚ Direct redirection to printer

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