

Group: 3D'S
Project: Media Server
Document: VVR 3.0
Date: April 16 2005

1. Introduction and overview

1.1 Purpose of this Document

Describe the results and possible improvements of the testing experience.

1.2 Scope of the Development Project

We are developing a media server that will store media (DVD/CD content). This will only operate on a home network with windows machines. The amount of media stored is dependent on the network's free hard drive space.

There is a recommendation system to help indecisive viewers decide on what movie they wish to see or music to listen to.

Some benefits are that you can store the media on any computer on the network. Since you won't be using the actual disks they can be safely stored and media becomes readily accessible.

1.3 Definitions, Acronyms, and Abbreviations

Client Application: The system that the user interacts with to interact with the recommendation system, request media, and play back the streaming data.

Database Server: A server that runs a database containing information on movies, music files, and local media location.

IMDB: A website (<http://www.imdb.com>) that maintains a great database full of movie information.

Media: A movie or music data file.

Media Player: A program (implemented by a third party such as Windows Media Player) to play the media sent to it by the streaming server.

Recommendation System: A system that we will design, to make a good decision on what to recommend if a user would like the system to suggest a movie or an appropriate music playlist. This will analyze current preferences (i.e. I want to watch a comedy tonight) and the user's previous viewing practices to make a recommendation.

Streaming: The transfer of large amounts of data over a network. The receiving computer will then display the data, while it is coming in rather than saving it all.

Streaming Server: A server that streams media from the local hard drive to any other computer.

Session: A session consists of a user starting the client program, logging in, either picking some media, or having one recommended, and enjoying the media.

SPSG: *Software Programming Survival Guide*

1.4 References

VVP.pdf <http://www.cs.utah.edu/~sharwood/VVP.pdf>

2. Summary of Results

The projected system requirements were not fully reached. However, the requirements for this release have been achieved. All reviews, walkthroughs, inspections, and audits for this release ran well.

3. Results from reviews, walkthroughs, inspections, and audits

Existing defects from previous releases were resolved. Additional testing of these components did not introduce any more defects. As further integration was performed (specifically the media conversion tool) some defects were discovered and resolved.

4. Results from testing

4.1 Summary of component test

Component Name	Performed By	Problems	What Could Not Be Completed
Client Application	Drew	None found	N/A
Recommendation System	Dave	None found	N/A
Streaming Server	Steven	None found	The implementation of the INI file support is not as robust as it could be but it works.
Database Server	Dave/Steven	None found	Advanced file placement support
Network Interface	Steven/Drew	None found	N/A
Media Conversion Tool	Danny	None found	Editing of movie data from IMDB website. Bonus feature extraction.
IMDB Parser (subcomponent of Media Conversion Tool)	Drew	None found	Exhaustive testing

4.2 Summary of integration test / testing product as a whole

Component Name	Performed By	Problems	What Could Not Be Completed
Client Application	Drew	1. Sci-fi genre was incorrect. 2. Malformed message body for user history update	N/A
Recommendation System	Dave	None found	N/A
Streaming Server	Steven	Large file sizes were received incorrectly	N/A
Database Server	Dave/Steven	None found	N/A
Network Interface	Steven/Drew	None found	N/A
Media Conversion Tool	Danny	1. Minor parsing issues	See table 4.1
IMDB Parser (subcomponent of Media Conversion Tool)	Drew	None found	N/A

5. Evaluation of the process

5.1 Evaluation of test cases

Component test cases sufficiently identified bugs before integration. Only minor errors were found during integration.

5.2 Results from defect tracker

All open defects have been resolved.

5.3 Lessons learned

No new lessons were learned but the old ones were not forgotten, or we just got lucky.

6. Outcome of acceptance test and delivery

We performed a subset of the acceptance tests and they passed. During the next

week the complete set will be run.

7. Summary of open issues

We do not yet support a DVDs special features. A better file placement system could have been done.

8. Additional information

None at this time.