

# **3D'S Media Server Project History**

## **Date: April 27 2005**

### **Team Members:**

Andrew Richardson  
Dave Durrant  
Steven Harwood  
Wayne Barney

### **Introduction:**

The purpose of the Media Server is to eliminate clutter, damage, and loss in a personal DVD/CD collection. The idea is to create a server/client system to store and stream media content across a home network. Additionally the system will keep track of viewing habits. Based on this info and preference inputs, (i.e. genre, actor, etc.) the system will make recommendations for those who aren't sure what to watch

The goal of the Media Server is to remove the hassle from watching a DVD at home. With this system a person will no longer need to waste time looking for the DVD. It will be neatly organized in a user friendly menu system. The recommendation system can help an indecisive viewer decide what to watch eliminating the repetitive scanning of the DVD rack.

### **Historical Overview:**

The following documents that follow contain a description of milestones, major risks, schedules, project planning info, and staffing roles for each of the areas listed.

User interface prototyping and requirements gathering.

Documents produced: Project Plan, Section 2 of the SRS

Architectural design.

Documents produced: Section 3 of the SRS, Component Languages

Quality Assurance planning.

Documents produced: Section 3 of the SRS, VVP, VVR1, VVR2, VVR3

General stage planning.

Documents produced: SDS1, SDS2

Activities from detailed design through release for stage 1-4

Documents/Products produced: Development Plan Stages 1 – 3, VVR1, VVR2, VVR3, The applications!

Final software release.

Documents produced: Installation instructions, Final Report, Updated user manuals.

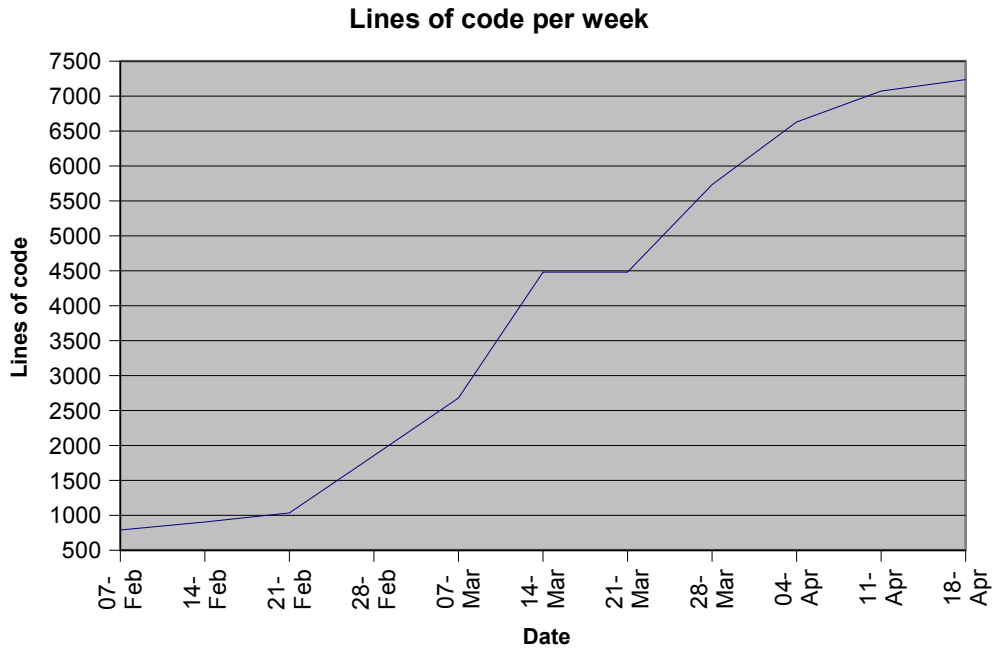
**Project Data:**

For information on schedules see appendix B. For information on actual work done see appendix A. Based on the logs in appendix A, here are the times that we each spent:

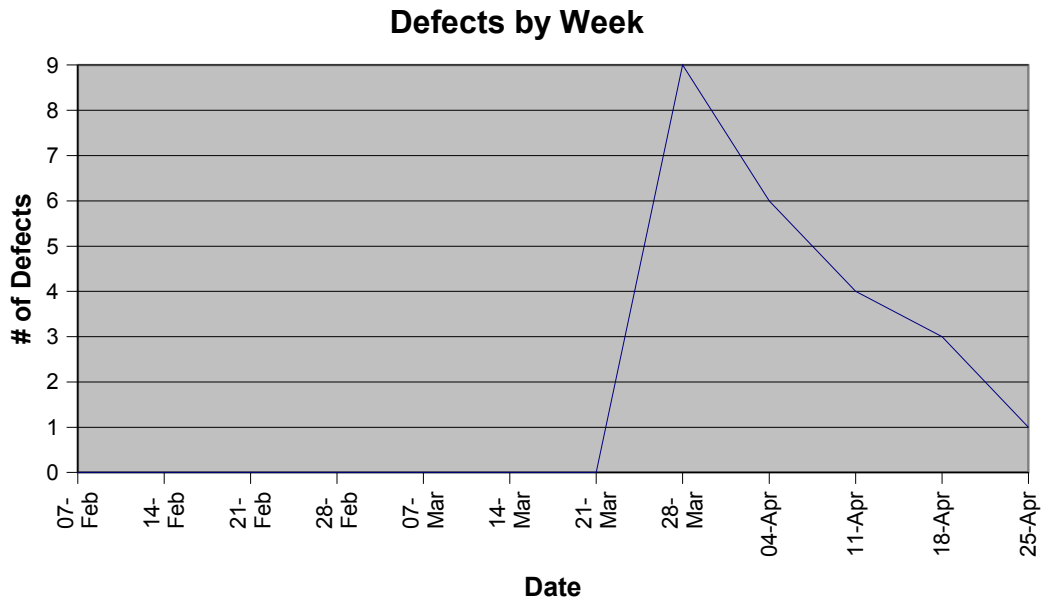
David	127:40
Wayne	142:50
Steven	81:55
Andrew	95:51

**Graph of Projects Code by Week:**

- Feb 7 – 790
- Feb 14 – 905
- Feb 21 – 1036
- Feb 28 – 1856
- Mar 7 – 2679
- Mar 14 – 4483
- Mar 21 – 4483
- Mar 28 – 5734
- Apr 4 – 6630
- Apr 11 – 7073
- Apr 18 – 7234
- Apr 25 – 7302



Graph of project's open and close defect count by week:



**Lessons Learned:**

Documentation is worthless if you don't have a plan to implement what you describe.

Testing is nice but worthless if it isn't exhaustive.

CVS is your friend once you know how to use it.

Parsing is not fun, in fact it pretty much sucks.

Working in a group with people you've worked with before makes everything run smoother.

## Appendix A: Logs

### A.1: Andrew Richardson

Date	Time	Type	Comments
12Jan2005	14:30 - 16:00	Planning	Brainstorm on projects and determine bids
13Jan2005	9:00 - 10:30	Design	Expanded design for the Media Server, and prepare bid
14Jan2005	13:50 - 15:00	Design	Completed first and second bid
19Jan2005	12:50 - 14:15	Planning	Prepare for our first meeting
	15:35 - 16:25	Meeting	Meet with prof, and revise bids
21Jan2005	14:00 - 15:30	Meeting\Design	Discuss project implementation and Project Plan
22Jan2005	17:00 - 18:10	Planning	Further work on the Project Plan
24Jan2005	13:50 - 15:20	Meeting\Design	Finish Project Plan
25Jan2005	14:10 - 15:50	Meeting\Design	Begin SRS, Meet with Prof.
27Jan2005	19:15 - 19:45	Design	Work on SRS
28Jan2005	11:50 - 13:00	Meeting\Design	Finish SRS
	14:00 - 14:45	Meeting\Design	Finish SRS
31Jan2005	13:50 - 14:50	Meeting	Work on SDS
	14:50 - 16:10	Coding\Design	Work on User Interface
02Feb2005	14:00 - 14:15	Meeting\Design	Work on SDS
	17:30 - 18:45	Design\Coding	Work on User Interface
03Feb2005	9:30 - 9:50	Design	Review SDS
04Feb2005	11:15 - 14:05	Design	Work on SDS, and help set cvs up
07Feb2005	13:55 - 16:05	Meeting	Update project history, weekly management report
07Feb2005	19:20 - 21:00	Coding	Getting lame and mplayer to work with windows
08Feb2005	13:50 - 15:40	Coding	Localizing the IMDB database
11Feb2005	14:20 - 15:45	Coding	Working on Client and IMDB database
14Feb2005	13:50 - 15:45	Meeting/Coding	Respond to checkpoint and work on user interface
16Feb2005	14:05 - 15:45	Meeting	Continue working on checkpoint issues, meet with Prof, plan for SDS v2 completion
	11:45 - 12:05	Documentation	Work on User Guide
18Feb2005	14:10 - 16:10	Documentation	Work on SDS v2
23Feb2005	11:30 - 12:00	Meetingish	Write Meeting thingie :)
25Feb2005	13:50 - 15:50	Coding	Convert network code to C++, and general coding
28Feb2005	13:50 - 15:31	Coding	Help with media conversion, figure out how to pipe process output in Visual C++
02Mar2005	14:04 - 15:45	Coding/Meeting	Interface Client with Database, weekly meeting
04Mar2005	13:55 - 15:16	Meeting	Write VVP
07Mar2005	15:56 - 18:15	Coding	Merging projects together for demo
08Mar2005	19:36 - 20:00	Coding	working on CListCtrl - Getting double clicking to work
09Mar2005	12:30 - 12:55	Coding	Tweaking the User Interface - Adding option to choose which genera to search for
	13:50 - 16:30	Coding	Documentation, code, and demo release
11Mar2005	12:45 - 15:05	Coding	Polishing the release for posting and finish documentation
14Mar2005	8:15 - 9:15	Documentation	Catch up on documentaion - VVR 1
	19:00 - 20:00	Coding	moviedb parser
15Mar2005	17:00 - 20:00	Coding	moviedb parser
21Mar2005	13:50 - 15:05	Coding/Meeting	Roadmap v2.0 and Media Conversion
	23:35 - 24:20	Coding	Implement recomendation UI
23Mar2005	14:05 - 15:40	Coding/Meeting	Weekly Meeting and work on client
26Mar2005	10:00 - 12:05	Coding	Work on Media Converter and Parser
28Mar2005	13:45 - 15:05	Coding/Meeting	Working on Parser
30Mar2005	13:50 - 18:30	Coding	Working on Parser, Network Code, User Application - Basicly integration
01Apr2005	13:55 - 17:00	Coding/Integrat	Work on integeeration and testing
02Apr2005	8:10 - 12:05	Coding/Integrat/Documentation	Integration, fixing and documentation
04Apr2005	13:50 - 15:30	Coding/Document	Work on Brocure, Management Report, Development Plan, etc...
07Apr2005	14:45 - 15:15	Coding	Work on adding producers and fixing assertion failures
08Apr2005	12:00 - 15:10	Coding	Work on Connection.cpp assert failure
09Apr2005	16:25 - 17:33	Coding	Work on Recommend screen
11Apr2005	14:00 - 15:00	Coding	Work on Recommend screen
	21:45 - 23:00	Coding	Work on Recommend Screen and checking IMDB parsing problems
13Apr2005	14:00 - 16:00	Coding	Work on inputing actors, directors, and writers
15Apr2005	13:10 - 14:05	Coding	Work on conversion tool dialog boxes
18Apr2005	13:50 - 16:20	Coding/Document	Work on conversion and VVR3
20Apr2005	13:50 - 15:45	Coding	More on conversion
25Apr2005	13:00 - 17:15	Coding/Document	Conversion tool, Final Report
26Apr2005	20:15 - 20:52	Documentation	Installation instructions and updating the user guide
24Apr2005	14:15 -	Documentation	Work on defect tracking, project history, and final report

### A.2: David Durrant

Date	Time	Type	Comments
12Jan2005	14:30 - 16:00	Planning	Brainstorm on projects and determine bids
13Jan2005	9:00 - 10:30	Design	Expanded design for the Media Server, and prepare bid
14Jan2005	13:50 - 15:00	Design	Completed first and second bid
19Jan2005	12:50 - 14:15	Planning	Prepare for our first meeting

	15:25 - 16:30	Meeting	Team meeting with Professor, Revision of bids, Begin History, Project Plan.
21Jan2005	14:00 - 15:35	Design/plan	Group work on Project Plan.
22Jan2005	14:00 - 15:10	Design/plan	Individual work on Project Plan.
24Jan2005	13:50 - 15:20	Design/plan	Complete Project Plan, start SRS.
26Jan2005	14:10 - 15:25	Design/plan	Work on SRS.
	15:25 - 15:35	Meeting	Team meeting with Professor.
27Jan2005	14:20 - 15:30	Planning	Work on SRS.
28Jan2005	11:50 - 13:00	Design/plan	Continue work on the SRS.
	14:00 - 14:45	Design/plan	Finish the SRS.
31Jan2005	13:50 - 16:10	Meeting/plan	Work on SDS, database schema definition.
02Feb2005	14:00 - 15:25	Design/plan	Work on SDS.
	15:25 - 15:35	Meeting	Team meeting with Professor.
04Feb2005	11:20 - 12:10	Design/plan	Work on SDS.
	12:10 - 12:30	Design	Refine Database Schema. Create Recommendation interface.
	13:55 - 14:15	Design/plan	Finish SDS.
07Feb2005	13:50 - 16:05	Meeting/Design	In this team meeting we set up our coding standards. We also set up a schedule/Milestones from now until
			the first release date.
09Feb2005	13:50 - 15:30	Coding	Design movie class to store attributes of a movie.
			Define functions needed to query the database.
			Refine Database Schema.
14Feb2005	13:50 - 15:30	Meeting	We worked on various miscellaneous aspects of our documents, and talked about our progress and next goals.
16Feb2005	14:10 - 15:25	Meeting	Work on Planning Checkpoint suggestions.
	15:25 - 15:35	Meeting	Team meeting with Professor.
18Feb2005	12:00 - 13:00	Design	Worked on Recommendation/Database component description for SDS 2.0, created pseudocode for various
			functions.
	13:50 - 16:00	Design	Finish SDS as a group.
25Feb2005	12:00 - 15:50	Coding	Create actual classes for QueryFields. Begin parsing of arguments passed into the recommendation system.
			Begin writing Database queries and putting them into a usable format.
28Feb2005	12:05 - 14:25	Coding	Created a general globals class for all global constants.
			Updated the Recommendation process to be more strict on the input.
	14:25 - 14:45	Meeting	Group meeting - Management report.
	14:45 - 15:15	Coding	Continued work on Recommendation process.
02Mar2005	12:50 - 15:25	Coding	Created classes to match database fields for database extraction.
	15:25 - 15:35	Meeting	Meeting with professor.
04Mar2005	13:00 - 14:00	Coding	Testing and debugging of Database.java.
	14:00 - 15:15	Meeting	Work on VVP as a group.
07Mar2005	12:50 - 18:00	Coding	Add network abilities to Database and Recommendation Systems. Test Database and Recommendation systems
			together. Finish up stage 1 recommendation System and Database.
09Mar2005	15:30 - 16:00	Coding	Ensure everything is working correctly for demo.
	16:00 - 16:30	Meeting	Demo of stage 1 version of project.
11Mar2005	13:00 - 14:00	Coding	Ensure that code is up to our coding standard and still works.
	14:00 - 15:10	Meeting	Finish VVP. Do the VVR as a group.
14Mar2005	8:15 - 9:25	Design/plan	Work on VVR.
21Mar2005	13:00 - 14:00	Coding	Correct QueryFields.java to do its own parsing, and take that part out of Database.java.
			Create classes for user history and feature tables.
	14:00 - 14:45	Meeting	Group meeting - Management report.
	14:45 - 15:20	Coding	Work on adding user history queries (Recommendation System).
	13:45 - 15:45	Coding	Worked on user history parsing. Began data structure to hold feature information. Began to separate
			database functionality to allow for various types of database queries. Create codes for the database to
			know what kind of operation is being asked of it.
			Added request type parsing to QueryFields.
	19:45 - 21:25	Coding	Added request for user history in the recommendation system. Added functionality to the database to extract
			info from the user history table. Began creating definite tests to ensure quality of the various
			functions.
22Mar2005	10:45 - 11:30	Design	Created definite patterns for accessing the database. These are at
			<a href="http://www.cs.utah.edu/~ddurrant/databaseInterfaces.txt">http://www.cs.utah.edu/~ddurrant/databaseInterfaces.txt</a>
23Mar2005	12:55 - 15:25	Coding/Testing	Ensure changes made still allowed stage 1 release functionalities to work.
	15:25 - 15:35	Meeting	Meeting with professor.
24Mar2005	10:50 - 11:50	Coding	Corrected some bad practices throughout the database and recommendation systems (ie. no public/private tag
			on functions, etc.).
	13:00 - 16:00	Coding	Created Parsing functions for all database classes that did not have one. Wrote definite tests for parsing
			of all database classes.
	18:45 - 20:05	Coding	Continue work on testing QueryFields.java.
25Mar2005	9:30 - 10:45	Coding	Work with Steve to create all tables necessary for

			movies and database extraction (tables include movie, user and feature.
	11:35 - 12:50	Coding	Same as earlier today.
28Mar2005	9:00 - 9:40	Coding	Work on parsing of query for a Feature.
	12:55 - 14:50	Coding	Continue work on parsing of query for a Feature.
	14:50 - 15:05	Meeting	Group meeting - Management Report.
	15:05 - 15:20	Coding	Continue work on parsing and testing for a Feature.
	18:00 - 20:10	Coding	Work on Recommendation's MakeRecommendation function.
29Mar2005	7:45 - 9:00	Coding	Fixed some problems with CVS extraction (some changes I made yesterday weren't reflected in the new version
			after Steve committed last night. Worked on Tests.
	10:35 - 12:00	Coding	Worked on testing.
30Mar2005	13:00 - 15:25	Coding	Worked on testing some more. Put everything together to test integration.
	15:25 - 15:35	Meeting	Meeting with professor.
	15:35 - 18:15	Coding	Worked on integration testing.
	20:00 - 21:00	Coding	Made sure comments were up to date for database and recommend modules.
31Mar2005	10:40 - 11:30	Coding	Commented database and recommend modules further. Made some corrections to ParseQuery function in
			QueryFields.java. Added some notes and fixed some notes in the code (Notes are anything marked with ///.)
01Apr2005	13:50 - 17:00	Coding/Testing	Finish everything for stage 2.
02Apr2005	8:00 - 11:00	Coding/Testing	Same as yesterday.
	11:00 - 12:05	Meeting	Do VVR.
04Apr2005	13:50 - 15:15	Meeting	Group meeting - Management Report, Development plan, Brochure, respond to checkpoint review, etc.
	15:15 - 15:30	Coding	Find where parsing problem is.
06Apr2005	13:20 - 15:40	Coding	Work on sorting movie list by priority for Recommendation system. Figured out certain problems with the
			parsing that were going on.
	16:00 - 17:45	Coding	Finish sorting.
	19:15 - 21:10	Coding	Setting up entire system, fixing up some things in Databases and Recommendation files.
07Apr2005	10:00 - 11:40	Coding	Work on prioritizing movies. Write tests.
	13:30 - 14:30	Coding	Running system. Fixing small bugs.
	15:15 - 15:40	Coding	Running system. Adding to Recommendation system.
08Apr2005	10:15 - 11:30	Coding	Adding to Recommendation system.
	12:00 - 15:45	Coding/Testing	Figure out problems with client/database/recommendation interfaces.
11Apr2005	13:00 - 15:40	Coding/Testing	Add additional recommendation ideas.
13Apr2005	12:30 - 13:30	Coding/Testing	Work on Sorting.
	13:50 - 15:25	Coding/Intreg.	Integration of system. Help to finish conversion tool.
	15:25 - 15:35	Meeting	Meeting with professor.
	15:35 - 16:00	Coding	Integration testing.
18Apr2005	13:50 - 16:20	Meeting	Do VVR, Management report, some further testing.
20Apr2005	13:50 - 15:25	Coding	Testing/Integration.
25Apr2005	13:50 - 15:30	Coding	Integration testing of final version of Conversion tool. Build up the databases.
	15:30 - 17:20	Meeting	Documentation: Final Report.

### A.3: Wayne Barney

Date	Time	Type	Comments
12Jan2005	14:30 - 16:00	Team Meeting	Brainstorm on projects and determine bids
13Jan2005	9:00 - 10:30	Team Meeting	Expanded design for the Media Server, and prepare bid
14Jan2005	13:50 - 15:00	Team Meeting	Completed first and second bid
19Jan2005	12:50 - 14:15	Team Meeting	Prepare for our first meeting with prof.
19Jan2005	15:25 - 15:35	Prof. Meeting	Group Management Meeting with prof.
19Jan2005	15:40 - 16:25	Team Meeting	Project History, Plan
21Jan2005	9:45 - 10:00	Individual	Updated web page
21Jan2005	14:00 - 15:45	Team Meeting	Work on project plan
22Jan2005	7:45 - 8:30	Individual	Project Plan
24Jan2005	13:50 - 15:35	Team Meeting	Finish Project plan
26Jan2005	14:10 - 15:25	Team Meeting	work on SRS
26Jan2005	15:25 - 15:35	Prof. Meeting	Team meeting with prof.
28Jan2005	11:50 - 13:00	Team Meeting	Finish SRS
31Jan2005	13:50 - 16:10	Team/Individ.	SDS, update web page, weekly report
02Feb2005	9:30 - 10:30	Individual	Try to figure out cvs
02Feb2005	14:00 - 15:25	Team Meeting	Continue to work on sds
02Feb2005	15:25 - 15:35	Prof. Meeting	Team meeting with prof.
04Feb2005	9:45 - 10:40	Individual	Work on sds as individual, CVS
04Feb2005	11:15 - 14:00	Team Meeting	Finish SDS as team, finally get CVS to work right
07Feb2005	13:50 - 16:05	Team Meeting	Weekly report, write coding standards, plan for stage 1 release
14Feb2005	13:50 - 15:30	Team Meeting	weekly report, talked about checkpoint review
15Feb2005	23:50 - 2:30	Individual	Work on Media Loader application and research MFC
16Feb2005	13:50 - 15:35	Team Meeting	Documentation
16Feb2005	15:35 - 15:45	Prof. Meeting	Team meeting with Prof.
18Feb2005	12:00 - 13:00	Team/Individ.	Work on SDS and media loader
19Feb2005	13:50 - 16:15	Team Meeting	Finish SDS
23Feb2005	11:40 - 12:30	Andrew/Me	Reply to checkpoint review, fill out management report
25Feb2005	8:50 - 10:40	Individual	UI for Media Conversion/research MFC
25Feb2005	11:40 - 13:50	Individual	UI for Media Conversion/research MFC

25Feb2005	13:50 - 16:00	Team	UI for Media Conversion/research MFC
28Feb2005	1:00 - 3:00	Individual	Figure out mencoder
28Feb2005	11:40 - 14:25	Individual	Write code to run mencoder
28Feb2005	14:25 - 14:45	Team Meeting	Management report, check up on each part of the project
28Feb2005	14:45 - 15:35	Individual	Continue to work on media conversion
02Mar2005	15:25 - 15:35	Team Meeting	Team Meeting with prof.
04Mar2005	14:00 - 15:15	Team Meeting	Work on vvp document
07Mar2005	12:30 - 18:00	Individual	Work on media conversion ui
09Mar2005	10:50 - 11:00	Drew/Me	Management report
09Mar2005	13:50 - 16:00	Indiv/Meet	Work on MC and prepare for demo
09Mar2005	16:00 - 16:30	Team Meeting	Demo for stage 1 release
11Mar2005	12:00 - 14:00	Individual	work on MC, update my log
11Mar2005	2:00 - 15:00	Meeting	VVP, VVR
12Mar2005	23:00 - 2:00	Individual	Media conversion, research options to encode
14Mar2005	8:00 - 9:20	Team Meeting	VVP
19Mar2005	1:00 - 2:00	Individual	Media conversion Cancel & back buttons
21Mar2005	12:30 - 14:00	Individual	Media conversion Back buttons
21Mar2005	14:00 - 14:45	Team Meeting	Management Report
23Mar2005	12:45 - 15:15	Individual	Media conversion - work on button problems (yes, they still don't work)
23Mar2005	15:25 - 15:35	Team Meeting	Meeting with prof.
26Mar2005	10:00 - 12:00	Drew/Me	fix GUI bugs for Media converter and Integrate
28Mar2005	12:45 - 13:50	Individual	Work on User Manual for uploading DVD/ Fix GUI bugs
28Mar2005	13:50 - 14:50	Drew/Me	Integrate movie searching and populate movie listing category
28Mar2005	14:50 - 15:05	Team Meeting	Management Report, discuss release feedback
29Mar2005	23:30 - 1:10	Individual	Work on user manual/GUI
30Mar2005	11:40 - 15:25	Individual	User Manual and List Selection
30Mar2005	15:25 - 15:35	Team Meeting	Weakly Meeting with Prof.
30Mar2005	15:35 - 18:10	Indiv/Meet	Work on populating movie list and selecting movies, integrate with database, add movies to database
01Apr2005	9:30 - 10:40	Individual	Fix Fatal error in control list box
01Apr2005	11:40 - 13:50	Individual	try to populate list box and get it to send right movie to steve
01Apr2005	13:50 - 17:50	Team Meeting	Test adding movie info. to database, fix bugs
02Apr2005	8:00 - 12:00	Team Meeting	Test integration, vvr 2, fix dialogue box bugs in Pick.cpp
04Apr2005	12:00 - 13:50	Individual	Add DVD information to "PICK" dialogue box
04Apr2005	13:50 - 15:30	Team Meeting	Brochure, Management report, road map, reply to check point review
06Apr2005	8:45 - 10:40	Individual	Add Movie info. modifier dialogue box to application
06Apr2005	11:40 - 15:30	Individual	Set up Attribute dialogue box
07Apr2005	15:00 - 19:00	Individual	Try to find reason why wrong movie is sent. Problem fixed
08Apr2005	13:00 - 15:10	Individual	Work on movie attribute dialogue
11Apr2005	13:00 - 15:40	Individual	Initialize attribute dialogue
14Apr2005	1:00 - 4:00	Individual	Work on dumb conversion tool
15Apr2005	13:00 - 14:00	Drew/Me	Work on Conversion tool
18Apr2005	13:50 - 16:20	Team Meeting	Management report, vvr, other documentation
20Apr2005	8:30 - 10:00	Individual	Update user manual for conversion tool
25Apr2005	10:50 - 13:00	Individual	Try to fix bugs (not a success)
25Apr2005	13:00 - 17:15	Team Meeting	Conversion tool, Final Report
27Apr2005	13:00 - 14:30	Individual	Update conversion user manual
27Apr2005	14:30 - .....	Team Meeting	Documentation, documentation, and documentation

## A.4: Steven Harwood

Date	Time	Type	Comments
12Jan2005	14:30 - 16:00	Planning	Brainstorm on projects and determine bids
14Jan2005	13:50 - 15:00	Design	Completed first and second bid
15Jan2005	15:00 - 17:30	R&D	Implemented simple server and streamed video to Windows Media Player
19Jan2005	13:50 - 14:15	Planning	Prepare for our first meeting
	15:25 - 15:35	Meeting	Team Management Meeting with Prof Henderson
	15:40 - 16:25	Planning	Correct documents (bid, project history)
21Jan2005	14:00 - 15:35	Planning	Write Project Plan document
24Jan2005	13:50 - 15:20	Planning	Finish Project Plan document
26Jan2005	14:10 - 15:20	Planning	Work on SRS
	15:25 - 15:35	Meeting	Team Management Meeting with Prof Henderson
28Jan2005	14:00 - 14:45	Planning	Finish SRS
31Jan2005	13:50 - 14:45	Planning	Being SDS
07Feb2005	13:50 - 16:00	Planning	Lots of detailed planning
09Feb2005	13:50 - 15:30	Misc	Database schema Development, cleaned up documents
14Feb2005	13:50 - 13:10	Admin.	Created and modified various documents
16Feb2005	14:30 - 15:20	Admin.	Responded to Checkpoint review
	15:25 - 15:35	Meeting	Team Management Meeting with Prof Henderson
18Feb2005	10:00 - 11:20	Design	Worked on design and description of components for SDS v2
22Feb2005	12:30 - 13:15	Coding	Network Interface
	17:30 - 18:45	Coding	Network Interface
25Feb2005	13:50 - 15:40	Coding	Network Interface, Database Server
28Feb2005	07:00 - 08:10	Coding	Streaming Server
	13:50 - 14:25	Coding	Streaming Server

		14:25 - 14:45	Meeting	Write Weekly Management Report/Misc
		14:45 - 15:45	Coding	Streaming Server
		16:30 - 19:30	Coding	Completed initial coding on the Streaming Server
02Mar2005		14:45 - 15:20	R&D	Database Stuff
		15:25 - 15:35	Meeting	Team Management Meeting with Prof Henderson
04Mar2005		14:05 - 15:15	Docs.	Begin VVP
06Mar2005		22:30 - 00:30	Coding	Finish Network Interface and ExtractQuery function for the Database Server
07Mar2005		13:50 - 17:55	Testing	Testinf of stage 1 release
09Mar2005		13:50 - 16:00	Prep	Finished Testing and preparation for the demo. Worked on VVP
		16:00 - 16:25	Demo	Demoed Stage 1 Release
11Mar2005		13:00 - 13:10	Coding/Doc	Ensure all code followed coding standard and still worked after changes were made
				Finish the VVP
14Mar2005		08:10 - 09:20	Documentaion	Write the VVR
21Mar2005		13:50 - 15:10	Admin/R&D	Write weekly management report. Write timeline for stage 2 development plan. R&D for
				streaming server (availabe disk space)
22Mar2005		20:40 - 20:50	Coding	Stremer ini file support
23Mar2005		13:50 - 15:25	Coding	Worked on databse server with Dave
		15:25 - 15:35	Meeting	Team Management Meeting with Prof Henderson
25Mar2005		10:00 - 12:50	Coding	Database server
28Mar2005		10:30 - 12:00	Coding	Database server
		13:50 - 15:25	Coding/Admin	Database Server/Write weekly management report.
29Mar2005		20:00 - 21:30	Coding	Database Server
30Mar2005		13:50 - 15:20	Coding	Database Server/Network Interface
		15:25 - 15:35	Meeting	Team Management Meeting with Prof Henderson
		15:35 - 18:20	Coding	Database Server/Network Interface
31Mar2005		20:10 - 20:40	Debugging	Network Interface
01Apr2005		14:10 - 17:00	Debug/Integrate	Testing and debugging of the system as a whole
02Apr2005		08:00 - 11:00	Debug/Integrate	Testing and debugging of the system as a whole
		11:00 - 12:00	Documentation	VVR for stage 2
04Apr2005		13:50 - 15:15	Administration	Weekly management report, Brochure, respond to checkpoint review
06Apr2005		13:50 - 15:40	Debug	Debugging Database server
08Apr2005		13:50 - 15:45	Debug	Debugging of the system as a whole
11Apr2005		13:50 - 15:25	Coding/Admin	Misc coding, Weekly management report
13Apr2005		13:50 - 15:25	Coding	Integration/testing
		15:25 - 15:35	Meeting	Team Management Meeting with Prof Henderson
18Apr2005		13:50 - 16:15	Admin/Coding	Weekly management report, VVR, minimal debugging
19Apr2005		22:30 - 22:45	Coding	Increase robustness of StremingServers .ini file support
20Apr2005		13:50 - 15:30	Coding	Testing/Integration
25Apr2005		13:50 - 17:20	Coding/Docum	Testing/Integration. Final Report
27Apr2005		14:15 - ??:??	Documentation	Final Report and Project History

## Appendix B: Schedules

### B.1: Stage 1 Development Plan/Schedule

#### Group: 3D'S

Project: Media Server

Document: Roadmap V1.0

### Roadmap

#### What is stage 1?

Here are the minimum requirements for our stage 1 release. Implementation of further features is great, but *only* if everything else is done. Coding should be such that features planned for the future can easily be added. Planning these further features should be done.

Streaming Server:

Stream file in request to HTTP requests from the Media Player. Loading files is optional.

Database Server:

Respond to the following queries: List of media in the system, and it's location; List of users and their information; Framework for user history and recommendation system.

Media format conversion:

By hand or simple/stupid scripts. Compiled to run in cygwin/windows environment. Fill in movie information by hand.

Client Application:

All windows and options should exist (but they don't have to do anything). Its aesthetic value may be expanded later. Fully implement a user choosing a movie themselves.

Recommendation System:

Stubs and pseudocode.

Network stuff:

Finished. Expanded below.

**What gets passed over the network:**

Client Application to database server – List of Movies, user records, add new user, add viewing history.

Get and parse data from IMDB.

Recommendation system:

**Schedule**

07Feb2005 – Now

16Feb2005 – Function headers and stubs defined (still flexible) - Everyone

23Feb2005 – Streaming server finished - Steve

23Feb2005 – UI finished - Drew

25Feb2005 – Media format conversion - Drew

04Mar2005 – Database Server stuff

07Mar2005 – Have stage 1 done

11Mar2005 – Due

## **B.2: Stage 2 Development Plan/Schedule**

### **Media Server**

Group 3DS

Roadmap 2.0

03/21/05

**Recommendation System** - Error proof input from user interface. Get user history. Eliminate any movies in the history of the user from the list of movies.

**Database** - Make progress on supporting queries given by the Recommendation system. Add capabilities to query other tables (besides the movie table). Allow updates for user info.

**User Interface** - Include new features provided by the recommendation system. Add user history items.

**Streaming Server** - Add an INI file that gives a base path for all file locations.

**Network** - Finish network in C++.

**Media Conversion** - Convert a movie into a format, add it to database. Get gui to work properly and extract movie info from IMDB. Manually place file in the location specified.

### **Timeline**

Systemwide goals:

03/30/05 - Coding complete for this release.

04/01/05 - Integration complete.

04/01/05 - Documentation complete.

Drew:

03/21/05 - Support additional recommendation features (Client Application).

03/28/05 - IMDB output parsing (Media Conversion).

03/30/05 - Network done (C++).

03/30/05 - UI user history updates (Client Application).

Danny:

03/21/05 - Convert a movie into a format (Media Conversion).

03/28/05 - GUI working properly (Media Conversion).

03/30/05 - User manual (Media Conversion).

03/30/05 - Add movie to a database (Media Conversion).

Steve:

03/21/05 - INI file ready (Streaming Server).

03/28/05 - Allow combination of queries (Database).

Dave:

03/23/05 - Add user history queries (Recommendation System).

03/28/05 - Error proof input from user interface (Recommendation System).

03/30/05 - Eliminate user history items from list of movies returned from database (Recommendation System).

Steve & Dave:

03/25/05 - Queries from various tables (Database).

03/30/05 - Update user info (Database).

### **B.3: Stage 3 Development Plan/Schedule**

#### **Media Server**

Group 3DS

Roadmap 3.0

04/04/05

**Recommendation System** - Set priorities for which movies to recommend. Sort the list and send it to the client application.

**Database** - Allow insertions and extractions from all tables. Allow search of key words in addition to exact strings. File placement (Location of files).

**User Interface** - Fix any bugs in interface with Recommendation System.

Ensure default values sent to Recommendation System are automatic. Allow multiple entries for lists (ie. multiple genres). Allow user to specify and/or options on those lists.

**Streaming Server** - Make INI file more robust.

**Network** - Ensure robustness of C++ and Java version of network codes.

**Media Conversion** - Add options for encoding the DVDs. Error proof IMDB parser. Get producer from IMDB. Allow editing of movie info returned by IMDB so that user can update certain fields (ie. if a movie has a NR rating, we allow the user to specify what rating they think it should have.) Update user manual to reflect all of these changes. Comment and clean up code.

#### **Timeline**

Systemwide goals:

04/11/05 - Coding complete for this release.

04/13/05 - Integration complete.

04/15/05 - Documentation complete.

Drew:

04/06/05 - Producer info from IMDB (Media Conversion).

04/08/05 - Error proof IMDB parser (Media Conversion).

04/08/05 - Ensure robustness of C++ network code (Network).

04/11/05 - All User Interface issues listed above (User Interface).

Danny:

04/06/05 - Allow editing of info returned by IMDB (Media Conversion).

04/08/05 - Add options for encode the DVDs (Media Conversion).

04/11/05 - Update user manual (Media Conversion).

04/11/05 - Comment and clean up code (Media Conversion).

Steve:

04/08/05 - INI file more robust (Streaming Server).

04/08/05 - Ensure robustness of Java network code (Network).

04/11/05 - Allow search by key words in addition to exact strings  
(Database).

04/11/05 - File placement (Database).

Dave:

04/06/05 - Sort list of movies by priority (Recommendation System).

04/06/05 - Extract top ten priorities from sorted list of movies  
(Recommendation System).

04/11/05 - Create smart priority changes to movies (Recommendation  
System).

Steve and Dave:

04/06/05 - Allow insertions and extractions from Feature table (Database).