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

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

![Defects by Week Graph]

**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

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Type</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>19Jan2005</td>
<td>12:50 - 14:15</td>
<td>Planning</td>
<td>Brainstorm on projects and determine bids</td>
</tr>
<tr>
<td>21Jan2005</td>
<td>14:10 - 15:50</td>
<td>Meeting\Design</td>
<td>Discuss project implementation and Project Plan</td>
</tr>
<tr>
<td>24Jan2005</td>
<td>17:00 - 18:10</td>
<td>Planning</td>
<td>Further work on the Project Plan</td>
</tr>
<tr>
<td>25Jan2005</td>
<td>14:10 - 15:50</td>
<td>Meeting\Design</td>
<td>Begin SDS, Meet with Prof.</td>
</tr>
<tr>
<td>27Jan2005</td>
<td>19:15 - 19:45</td>
<td>Design</td>
<td>Work on SDS</td>
</tr>
<tr>
<td>28Jan2005</td>
<td>11:50 - 13:00</td>
<td>Meeting\Design</td>
<td>Finish SDS</td>
</tr>
<tr>
<td>31Jan2005</td>
<td>13:50 - 14:50</td>
<td>Meeting\Design</td>
<td>Work on SDS</td>
</tr>
<tr>
<td>2Feb2005</td>
<td>14:00 - 14:15</td>
<td>Meeting\Design</td>
<td>Work on SDS</td>
</tr>
<tr>
<td>02Feb2005</td>
<td>14:30 - 15:20</td>
<td>Planning</td>
<td>Brainstorm on projects and determine bids</td>
</tr>
<tr>
<td>04Feb2005</td>
<td>13:50 - 16:00</td>
<td>Coding\Document</td>
<td>Work on User Interface</td>
</tr>
<tr>
<td>05Feb2005</td>
<td>13:00 - 14:00</td>
<td>Meeting\Design</td>
<td>Discuss project implementation and Project Plan</td>
</tr>
<tr>
<td>07Feb2005</td>
<td>13:50 - 15:50</td>
<td>Coding\Meeting</td>
<td>Interface Client with Database, weekly meeting</td>
</tr>
<tr>
<td>08Feb2005</td>
<td>13:50 - 14:50</td>
<td>Coding\Design</td>
<td>Work on User Interface</td>
</tr>
<tr>
<td>14Feb2005</td>
<td>13:50 - 15:50</td>
<td>Meeting\Coding</td>
<td>Respond to checkpoint and work on user interface</td>
</tr>
<tr>
<td>16Feb2005</td>
<td>14:05 - 15:45</td>
<td>Meeting\Design</td>
<td>Continue working on checkpoint issues, meet with Prof, plan for SDS v2</td>
</tr>
<tr>
<td>18Feb2005</td>
<td>14:10 - 16:10</td>
<td>Design</td>
<td>Work on SDS</td>
</tr>
<tr>
<td>20Feb2005</td>
<td>14:30 - 15:30</td>
<td>Meeting\Design</td>
<td>Discuss project implementation and Project Plan</td>
</tr>
<tr>
<td>22Feb2005</td>
<td>14:00 - 14:45</td>
<td>Meeting\Design</td>
<td>Finish SRS</td>
</tr>
<tr>
<td>24Feb2005</td>
<td>14:10 - 15:50</td>
<td>Coding\Design</td>
<td>Work on User Interface</td>
</tr>
<tr>
<td>27Feb2005</td>
<td>13:50 - 15:50</td>
<td>Coding\Design</td>
<td>Work on User Interface</td>
</tr>
<tr>
<td>02Mar2005</td>
<td>14:04 - 15:45</td>
<td>Coding\Meeting</td>
<td>Interface Client with Database, weekly meeting</td>
</tr>
<tr>
<td>04Mar2005</td>
<td>13:55 - 15:16</td>
<td>Meeting\Design</td>
<td>Work on User Interface</td>
</tr>
<tr>
<td>07Mar2005</td>
<td>15:56 - 18:15</td>
<td>Coding\Meeting</td>
<td>Implement recomendation UI</td>
</tr>
<tr>
<td>08Mar2005</td>
<td>19:36 - 20:00</td>
<td>Coding\Meeting</td>
<td>Working on CListCtrl - Getting double clicking to work</td>
</tr>
<tr>
<td>09Mar2005</td>
<td>12:30 - 12:55</td>
<td>Coding\Meeting</td>
<td>Tweaking the User Interface - Adding option to choose</td>
</tr>
<tr>
<td>16Mar2005</td>
<td>14:05 - 15:45</td>
<td>Meeting\Design</td>
<td>Continue working on checkpoint issues, meet with Prof, plan for SDS v2</td>
</tr>
<tr>
<td>19Mar2005</td>
<td>12:50 - 15:20</td>
<td>Planning\Meeting\Design</td>
<td>Further work on the Project Plan</td>
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<tr>
<td>12Apr2005</td>
<td>13:50 - 16:30</td>
<td>Coding\Document</td>
<td>Work on User Interface</td>
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<tr>
<td>14Apr2005</td>
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<td>Coding\Design</td>
<td>Work on User Interface</td>
</tr>
<tr>
<td>25Apr2005</td>
<td>13:00 - 17:15</td>
<td>Coding\Design</td>
<td>Conversion tool, Final Report</td>
</tr>
<tr>
<td>26Apr2005</td>
<td>20:15 - 20:52</td>
<td>Documentation</td>
<td>Installation instructions and updating the user guide</td>
</tr>
<tr>
<td>24Apr2005</td>
<td>14:15 -</td>
<td>Documentation</td>
<td>Work on defect tracking, project history, and final report</td>
</tr>
</tbody>
</table>

#### A.2: David Durrant

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>12Jan2005</td>
<td>14:30 - 16:00</td>
<td>Planning</td>
<td>Brainstorm on projects and determine bids</td>
</tr>
<tr>
<td>13Jan2005</td>
<td>9:00 - 10:30</td>
<td>Design</td>
<td>Expanded design for the Media Server, and prepare bid</td>
</tr>
<tr>
<td>14Jan2005</td>
<td>13:50 - 15:00</td>
<td>Design</td>
<td>Completed first and second bid</td>
</tr>
<tr>
<td>19Jan2005</td>
<td>12:50 - 14:15</td>
<td>Planning</td>
<td>Prepare for our first meeting</td>
</tr>
</tbody>
</table>

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**Notes:**
- Dates are in YYYY-MM-DD format.
- Times are in 24-hour format.
- Columns are separated by pipes (|).
- Comments section includes tasks and activities related to project progress.
did not have one. Wrote definite tests for parsing recommendation systems (ie. no public/private tag functionalities to work.

http://www.cs.utah.edu/~ddurrant/databaseInterfaces.txt
definite tests to ensure quality of the various system. Added functionality to the database to extract database queries. Create codes for the database to hold feature information. Began to separate

constants.

data worked in a usable format.

Add request type parsing to QueryFields. Continued work on adding user history queries (Recommendation System).

History, Project Plan.

21Jan2005 | 14:00 - 15:35 | Design/plan | Group work on Project Plan.
22Jan2005 | 14:00 - 15:10 | Design/plan | Individul work on Project Plan.
26Jan2005 | 14:10 - 15:25 | Design/plan | Work on SDS.
27Jan2005 | 14:20 - 15:30 | Planning | Work on SDS.
28Jan2005 | 11:50 - 13:00 | Design/plan | Continue work on the SDS.
02Feb2005 | 14:00 - 15:25 | Design/plan | Work on SDS.
04Feb2005 | 11:20 - 12:10 | Design/plan | Work on SDS.
07Mar2005 | 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

Define functions needed to query the database.

| 14Feb2005 | 13:50 - 15:30 | Meeting | We worked on various miscellaneous aspects of our documents, and talked about our progress and next goals.
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.

Add network abilities to Database and Recommendation Systems. Test Database and Recommendation systems together. Finish stage 1 recommendation System and Database.

09Mar2005 | 15:30 - 16:00 | Coding | Ensure everything is working correctly for demo.
11Mar2005 | 13:00 - 14:00 | Coding | Ensure that code is up to our coding standard and still works.
14Mar2005 | 14:00 - 15:10 | Meeting | Finish VVR. 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.
| 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 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 http://www.cs.utah.edu/~ddurrant/databaseInterfaces.txt
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 SLD of all database classes.
18Apr2005 | 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.

20Mar2005 |  9:00 -  9:40 | Coding | Work on parsing of query for a Feature.
14Mar2005 | 12:00 - 12:15 | Coding | Continue work on parsing of query for a Feature.
14Mar2005 | 15:45 - 16:00 | Coding | Continue work on parsing and testing for a Feature.
29Mar2005 |  7:45 -  9:00 | Coding | Fixed some problems with CVS extraction (some changes I
made yesterday weren't reflected in the new version.
12Mar2005 | 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
recommends.
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.
| 12:05 - 12:20 | Coding | 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 several problems with the
| | parsing that were going on.
| 16:00 - 17:45 | Coding | Finished 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.
| 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.
Build up the databases.

### A.3: Wayne Barney

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Type</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>12Jan2005</td>
<td>14:30</td>
<td>Team Meeting</td>
<td>Brainstorm on projects and determine bids</td>
</tr>
<tr>
<td>13Jan2005</td>
<td>09:00</td>
<td>Team Meeting</td>
<td>Expanded design for the Media Server, and prepare bid</td>
</tr>
<tr>
<td>14Jan2005</td>
<td>13:50</td>
<td>Team Meeting</td>
<td>Completed first and second bid</td>
</tr>
<tr>
<td>19Jan2005</td>
<td>12:50</td>
<td>Team Meeting</td>
<td>Prepare for our first meeting with prof.</td>
</tr>
<tr>
<td>19Jan2005</td>
<td>15:40</td>
<td>Team Meeting</td>
<td>Project History. Plan</td>
</tr>
<tr>
<td>21Jan2005</td>
<td>09:45</td>
<td>Individual</td>
<td>Updated web page</td>
</tr>
<tr>
<td>21Jan2005</td>
<td>14:00</td>
<td>Team Meeting</td>
<td>Work on project plan</td>
</tr>
<tr>
<td>22Jan2005</td>
<td>07:45</td>
<td>Individual</td>
<td>Project Plan</td>
</tr>
<tr>
<td>24Jan2005</td>
<td>13:50</td>
<td>Team Meeting</td>
<td>Finish Project plan</td>
</tr>
<tr>
<td>26Jan2005</td>
<td>14:10</td>
<td>Team Meeting</td>
<td>Work on SRS</td>
</tr>
<tr>
<td>26Jan2005</td>
<td>15:25</td>
<td>Prof. Meeting</td>
<td>Team meeting with prof.</td>
</tr>
<tr>
<td>29Jan2005</td>
<td>11:00</td>
<td>Team Meeting</td>
<td>Finish SRS</td>
</tr>
<tr>
<td>31Jan2005</td>
<td>13:50</td>
<td>Team/Individ.</td>
<td>SDS, update web page, weekly report</td>
</tr>
<tr>
<td>02Feb2005</td>
<td>09:30</td>
<td>Individual</td>
<td>Try to figure out cvs</td>
</tr>
<tr>
<td>02Feb2005</td>
<td>15:25</td>
<td>Team Meeting</td>
<td>Continue to work on sds</td>
</tr>
<tr>
<td>02Feb2005</td>
<td>15:25</td>
<td>Prof. Meeting</td>
<td>Team meeting with prof.</td>
</tr>
<tr>
<td>04Feb2005</td>
<td>09:45</td>
<td>Individual</td>
<td>Work on sds as individual, CVS</td>
</tr>
<tr>
<td>04Feb2005</td>
<td>11:15</td>
<td>14:00</td>
<td>Team Meeting</td>
</tr>
<tr>
<td>07Feb2005</td>
<td>12:50</td>
<td>Team Meeting</td>
<td>Weekly report, write coding standards, plan for stage 1 release</td>
</tr>
<tr>
<td>14Feb2005</td>
<td>13:50</td>
<td>Team Meeting</td>
<td>Weekly report, talked about checkpoint review</td>
</tr>
<tr>
<td>15Feb2005</td>
<td>21:50</td>
<td>Individual</td>
<td>Work on Media Loader application and research MFC</td>
</tr>
<tr>
<td>16Feb2005</td>
<td>13:50</td>
<td>Team Meeting</td>
<td>Documentation</td>
</tr>
<tr>
<td>16Feb2005</td>
<td>15:35</td>
<td>Prof. Meeting</td>
<td>Team meeting with Prof.</td>
</tr>
<tr>
<td>18Feb2005</td>
<td>12:00</td>
<td>Team/Individ.</td>
<td>Work on SDS and media loader</td>
</tr>
<tr>
<td>19Feb2005</td>
<td>13:50</td>
<td>Team Meeting</td>
<td>Finish SDS</td>
</tr>
<tr>
<td>23Feb2005</td>
<td>11:40</td>
<td>Andrew/Me</td>
<td>Reply to checkpoint review, fill out management report</td>
</tr>
<tr>
<td>25Feb2005</td>
<td>08:50</td>
<td>10:40</td>
<td>Individual</td>
</tr>
<tr>
<td>25Feb2005</td>
<td>11:40</td>
<td>13:50</td>
<td>Individual</td>
</tr>
</tbody>
</table>
Pick.cpp

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**01Apr2005** | 9:30 - 11:00 | Individual | Fix Fatal error in control list box
01 Apr 2005 | 11:40 - 13:30 | Individual | try to populate list box and get it to send right movie to steve

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**15Mar2005** | 17:30 - 19:00 | Meeting | UI for Media Conversion/research MFC

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**25Feb2005** | 14:25 - 15:30 | Team Meeting | Management report, check up on each part of the project
28 Feb 2005 | 11:40 - 15:00 | Individual | Continue to work on media conversion

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**02Mar2005** | 15:25 - 15:35 | Team Meeting | Meeting with prof.

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**07Mar2005** | 12:30 - 18:00 | Individual | Work on media conversion ui
09Mar2005 | 10:50 - 11:00 | Drew/Me | Management report
07Mar2005 | 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, VR
12Mar2005 | 14:00 - 21:00 | Individual | Media conversion, research options to encode
14Mar2005 | 8:00 - 9:00 | 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 start to work)

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26Mar2005 | 10:00 - 12:00 | Drew/Me | fix GUI bugs for Media converter and Integrate
28Mar2005 | 13:50 - 14:50 | Drew/Me | Integrate movie searching and populate movie listing
database, add movies to database

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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

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**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
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 SRS
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 | 14:10 - 15:45 | 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 S3S

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**22Feb2005** | 12:30 - 13:15 | Coding | Network Interface
| 17:30 - 18:45 | Coding | Network Interface
28Feb2005 | 07:00 - 08:10 | Coding | Streaming Server
| 13:50 - 14:25 | Coding | Streaming Server
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

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**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).