**RadioBasser**

Engineering Personalised Systems

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**Music on Demand Library**

- over 1000 CDs
- tracks on-line as 128kbps MP3 files
- cover image
- meta data about each CD and track

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**MoD Meta Data**

- each CD, track and cover image is described by a text file

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<table>
<thead>
<tr>
<th>ID: cd1</th>
<th>Type: cd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artist: Dire Straits</td>
<td>Title: Alchemy 2</td>
</tr>
<tr>
<td>Source: micka@129.78.8.1</td>
<td>Date: Thu Feb 1 12:58:24 1996</td>
</tr>
<tr>
<td>Length: 45:01:44</td>
<td>Tracks: cd1-1 cd1-2 cd1-3 cd1-4 cd1-5</td>
</tr>
<tr>
<td>Cover: cd1-cov</td>
<td></td>
</tr>
</tbody>
</table>

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**RadioBasser**

- a personalised streaming audio channel
- mix of tracks determined by community model
- tracks chosen from the Basser Music on Demand library

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ID: cd1-1
Type: cdtrack
MIME-Type: audio/mpeg
Source: cd1
URL: ac:cd1-1.mp3
Artist: Dire Straits
Title: Two young lovers
Track-No: 1
Length: 4:49.69
Producer: micka@129.78.8.1
Genre:
Summary:
Keywords:
MoD Player

- track and image data is available using the “ac” program and protocol
  - set your username and speaker URL to use

RadioBasser

- users enter a rating for CDs and tracks
- users play tracks using the MoD system
- users may select the RadioBasser stream

Implementation: Stage 1

- convert the metadata to a suitable database
  - e.g. MySQL, dbm etc
- implement a web based MoD library browser
  - allow tracks/CDs to be played
  - allow ratings to be entered
  - Tell the user model for the individual and the community

Stage 2

- implement a stream of tracks
  - Simple CGI script
- Choose the mix of tracks using the user model
  - Ask the user model server for resolved values

Object data access

- use the “ac” program
- Eg: to get cd1-1
  - ac cd/1/1.mp2
- Ac is in
  = /local/usr/lib/audio_tools on staff
  = /n/staff/linux/nfs/.common/local/usr/bin on
  linux machines