Crowdsourced Music Playlist Generation

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Generate Crowdsourced Playlist

1. Collect music data on the phone
2. Scan event QR code
3. Send music data to the server
4. Generate playlist
5. Playback
1. Collect Data

<table>
<thead>
<tr>
<th>Music data</th>
<th>Context data</th>
</tr>
</thead>
<tbody>
<tr>
<td>● Artist</td>
<td>● Location</td>
</tr>
<tr>
<td>● Title</td>
<td>● Time</td>
</tr>
<tr>
<td>● Album</td>
<td>● Acceleration</td>
</tr>
<tr>
<td>● …</td>
<td>● Contacts</td>
</tr>
<tr>
<td></td>
<td>● …</td>
</tr>
</tbody>
</table>
2. Event Identification

- Generate QR code from the event ID
- Display QR code on the monitor, flyer, poster etc.
- Scan QR code for the event identification
3. Merge Data

- Collect the aggregated data
- User decides when to send
- Linked with unique identifier
- Additional party identifier
- Permanent database update
4. Generate Playlist

• **seevl.fm** → related artists, genres and record labels
• **gracenote.com** → find music, rediscover old favorites through music recommendations and playlists
• **the.echonest.com** → music discovery and personalization

• We will decide later which service suits us best!
5. Playback Music

Generate playlist
Display statistics
Schedule (1/2)

### General
- API definition: 3 Tage

### Android App
- Basic Structure: 3 Tage
- App manifest (run in background, rights etc.): 3 Tage
- Song/artist/album detection: 7 Tage
- Database for song history and parameters: 3 Tage
- Read GPS information etc.: 2 Tage
- Basic GUI with button(s): 3 Tage
- QR code scanner & sending info to server: 3 Tage
- Top 10 generation: 3 Tage
- Top 10 list view: 3 Tage
- Send collected data with "cookie"-ID to server: 3 Tage

![Gantt chart showing progress of tasks]