Music Recommendation: Playlist Generation for Music Discovery
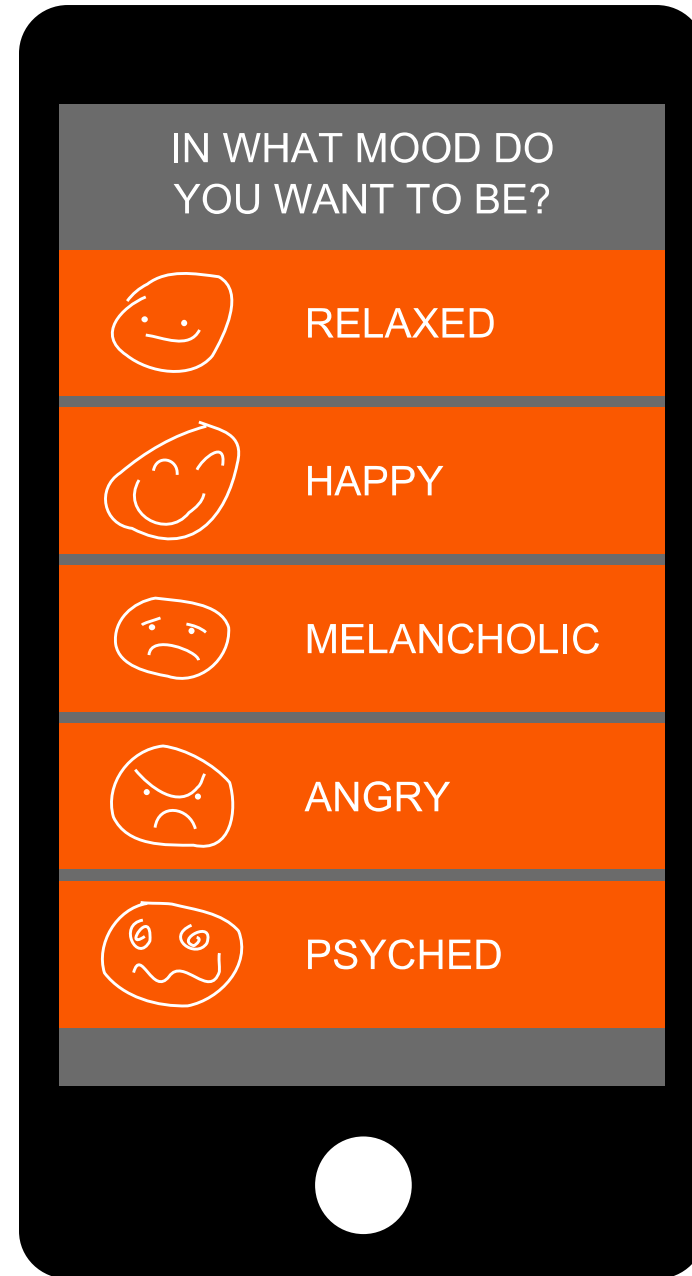
Agenda

- Round of introductions
- Sketch of mood-driven UI
- Architecture of the planned system
- Minimal goals and project plan
- Seminar topics
- Organisation of the seminar
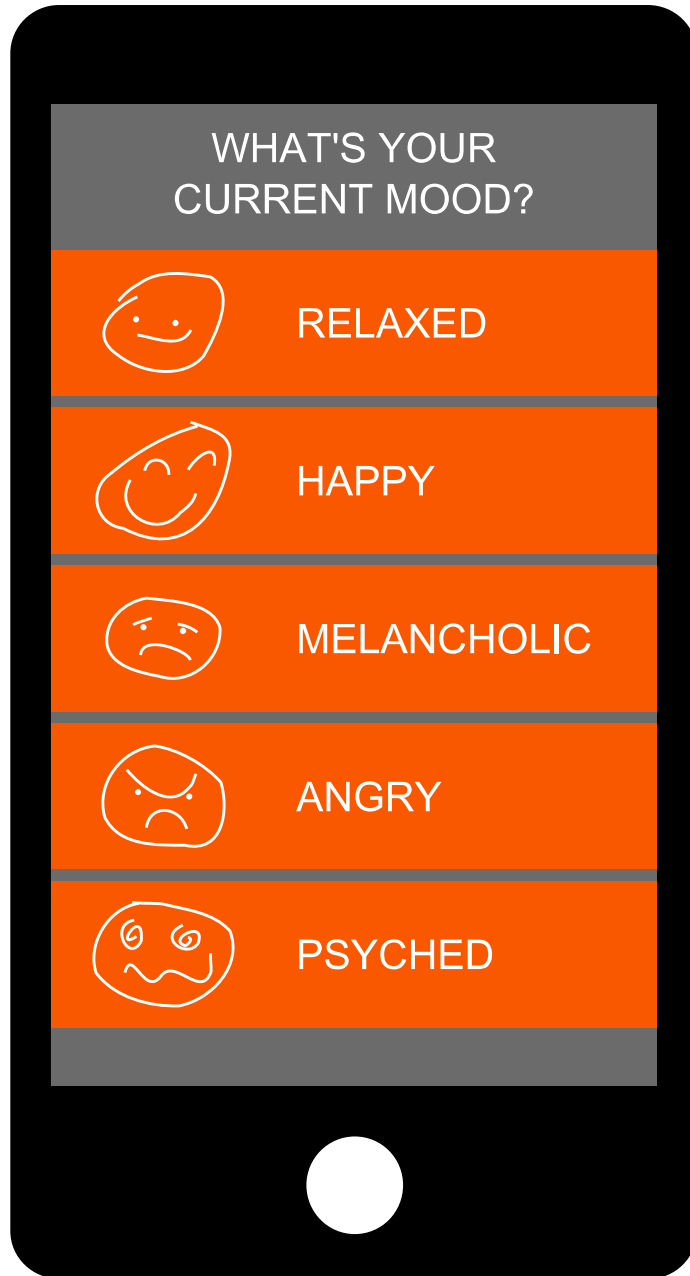- Organisation of the project group

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WHAT'S YOUR CURRENT MOOD?

RELAXED

HAPPY

MELANCHOLIC

ANGRY

PSYCHED

IN WHAT MOOD DO YOU WANT TO BE?

RELAXED

HAPPY

MELANCHOLIC

ANGRY

PSYCHED

RECOMMENDED
FIRST TRACKS

RECOMMENDED
NEXT TRACKS

Muse
Hysteria

Arctic
Monkeys
Only Ones
Who Know

Cold War
Kids
We Used to
Vacation

Say
Anything

Every
Man Has
a Molly

The
Decemb
erists

When
the War
Came

Band of
Horses

Is There
a Ghost

Arctic
Monkeys

Brianstor
m

Dirty
Pretty
Things

Blood
Thirsty
Bastards

6

Core : path of mood

Playlist

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

Initial
mood

Desired
mood

- Some questions
  - Matching mood and tracks?
  - How to compute recommended tracks?
  - Variations on the interface?

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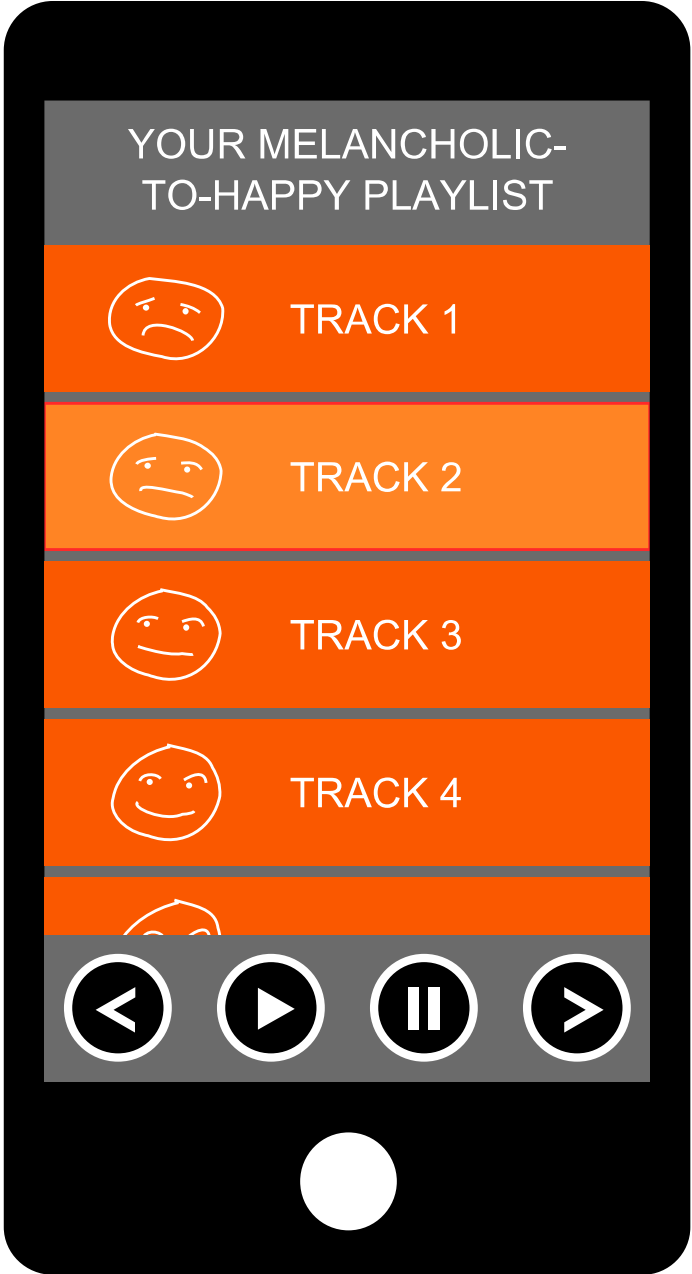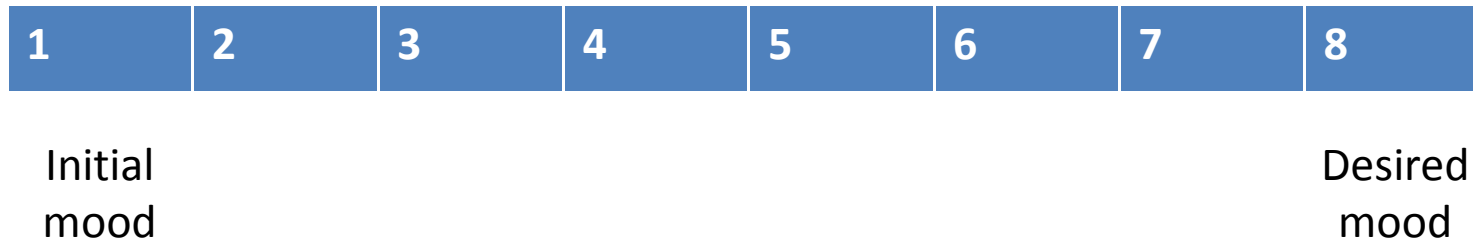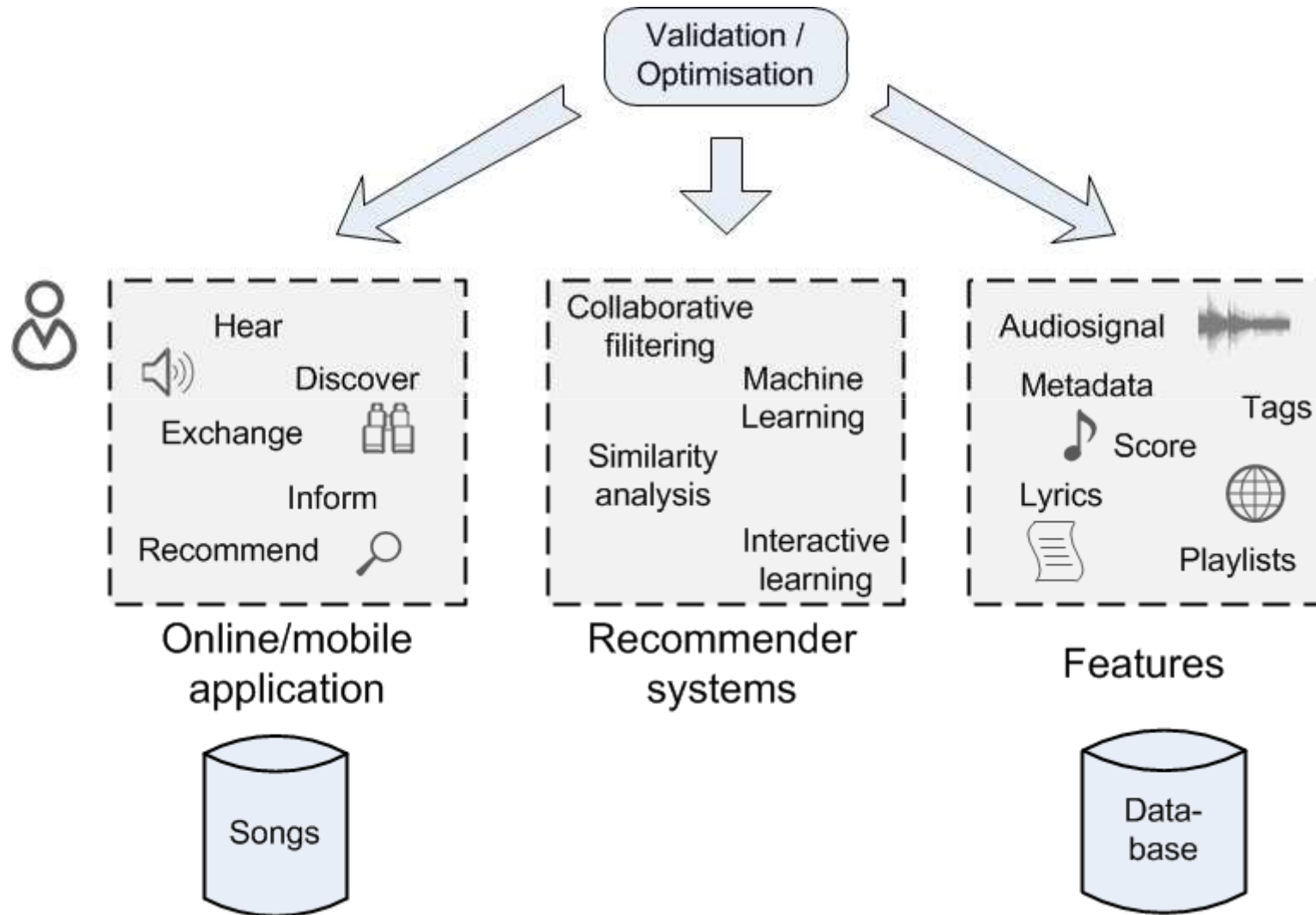- Organisation of the project group

Methods – Overview

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Minimal goals

- Web-/mobile applications for playlist-based music recommendation
- At least 2 different approaches (e.g. content-based + collaborative filtering)
- Studies with listeners
- User-centered evaluation
- Documentation of the work

Example of a project plan for the 1st term

Task	Start	End	Weeks
Project specification	CW 42	CW 43	2
Planning of components and interfaces	CW 42	CW 44	3
Planning of methods	CW 42	CW 44	3
Music database	CW 44	CW 45	2
GUI	CW 45	CW 48	4
Content database	CW 45	CW 48	4
Implementation of methods	CW 48	CW 51	4
Demonstrator	CW 2	CW 5	4
Planning of the second term	CW 5	CW 6	2
Progress report	CW 42	CW 6	15

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Seminar topics

Technical aspects
- UI development
- Mobile programming / Web services

Research methods
- Playlist generation
- User-centered evaluation
- Recommender systems
- Metadata features
- Musical high-level features
- Similarity analysis

Emotions and moods
- Models from music theory
- Automatic mood recognition

Project management
- SCRUM
- RUP
- Prince 2

Tools
- MIR frameworks

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Seminar – when?

- 12 talks (25 min + 5 min discussion)
  - 6 hours, ~8 hours with breaks
- During…
  - 1 day
  - 2 days (e.g. Fr 10-14 and Sa 10-14)
  - several smaller sessions (e.g. 4x Fr 14:00-16:00)
- Week..
  - week 40: 30.9-6.10
  - week 41: 7.10-13.10
  - week 42 (1st week of the lecture time): 14.10-20.10

Seminar – how?

- Talk length: 25 min + 5 min discussion
- Papers: 15-25 pages
- Expectations appr. as for proseminar
  - Template will be provided (TeX)
- Review process:
  - 1.10: paper deadline
  - 22.10: deadline for reviews
  - 5.11: final submission

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PG Organisation

- Meetings: twice a week
  - Time slots?
- Reports: twice a month
- Infrastructure
  - Mailing lists
  - Webserver
  - SVN
  - Pool-accounts
  - Working rooms