Software group

Everything about Software

Design goals

- Create mature Platform
- Very extensible
- Good scalability
- As free as possible
- Very compatible
- Easy to use

Initial Release
Contact Management
Send standard smileys
Accounting for outgoing SMS
Registration process

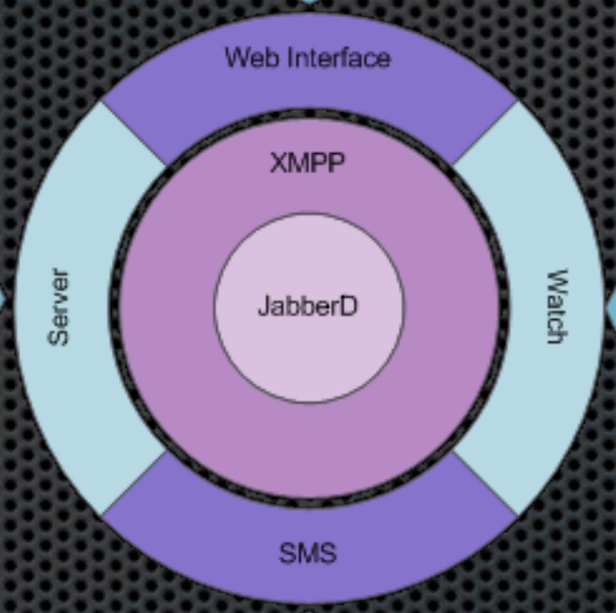
Later Releases
Customizable smileys
Reminder Management

Initial Release
Send/receive smileys
Query mood
On air update

Later Releases
Custom applications
Theme support
Automatic mood detection
Location based interactions

Initial Release
Store last mood status
Answer mood queries

Later Releases
Manage Locations
Send Reminders



Send & Receive SMS for
Non watch users
Registration process
Simple contact Mgmt,

Watch components

- Android
  - Platform supported by 30+ companies
  - Open and free
  - Very good tooling
  - Simulator available
  - XMPP support

Server components

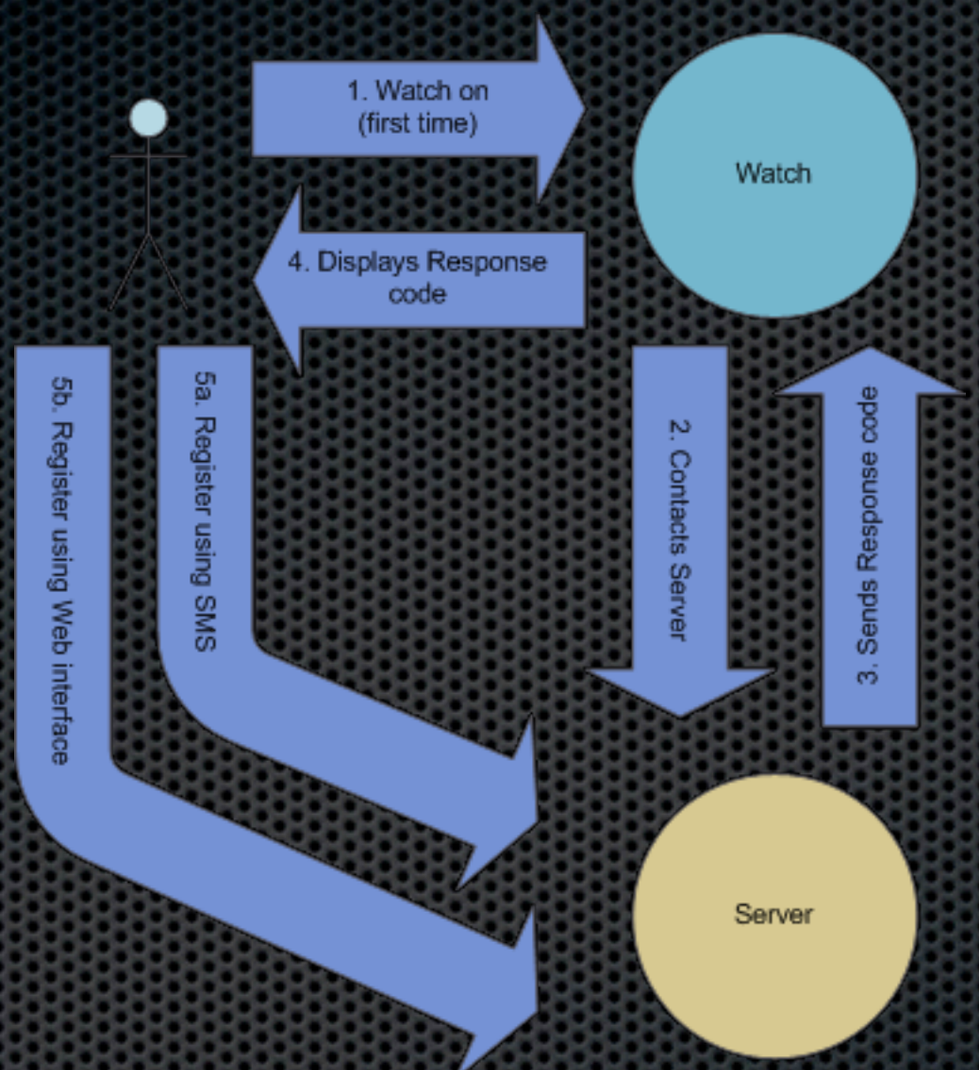
- Jabber
  - Open source
  - Good scalability
  - Very extensible
  - Widely supported
- Web interface

Evaluation of components

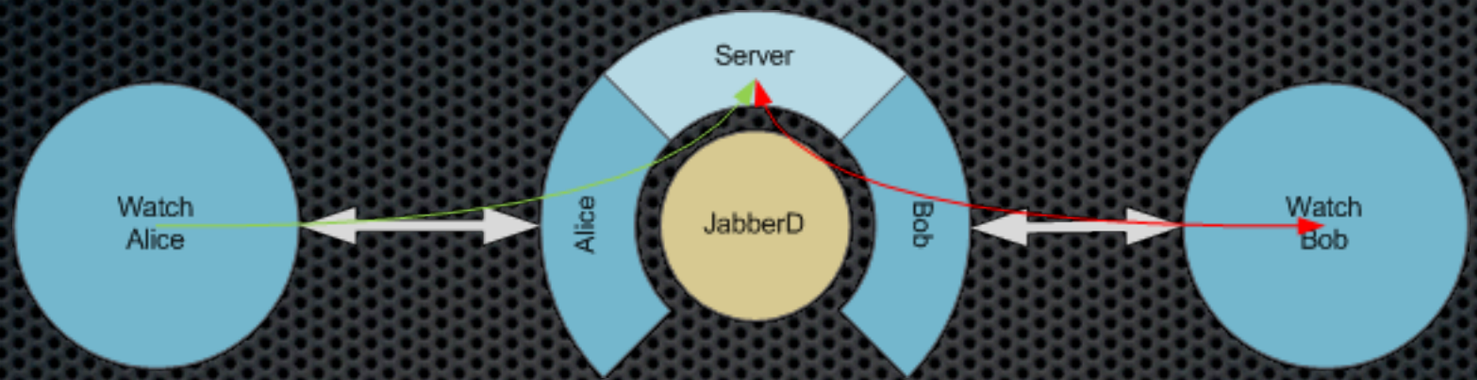
- UI Simulator
  - Determine best input method
  - Check communication channels
  - Experiment with UI concepts

Evaluation of components

- Android Simulator
  - Check if Android is flexible enough
- Web-UI Prototype
  - Check communication of Jabber with Web



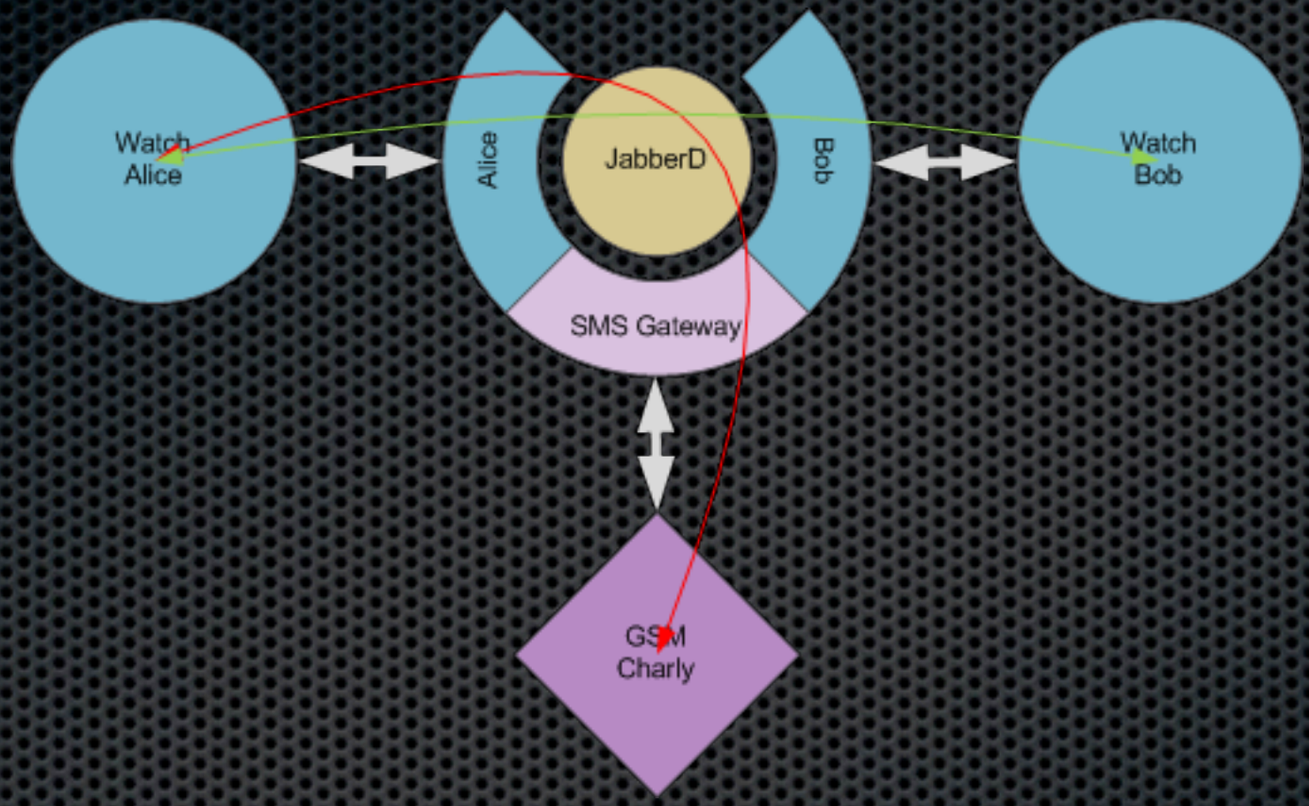
First time registration



Mood query

green - update mood

red - query mood



Watch Communication

green - watch to watch

red - watch to non-watch

UI Simulator live demo

Roadmap

- M0
  - Create concept
- M1
  - Prototype for testing
- M2
  - Connect prototypes

Release	
	Topic Focus
M0	Exploration — Watch, Android, Server, Jabber, Web interface
M1	Early prototype — Customize Android simulator, Web interface prototype, UI Simulator
M2	Refine prototype — Connect Web to Jabber, Connect Watch to jabber
M3	User experience focus
M4	Early hardware adoption
M5	Late hardware adoption
M6	Selected user experience gathering
M7	Large scale testing

Roadmap

- M3
  - Gather some user feedback
- M4
  - Adopt to a HW platform that runs Android

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Roadmap

- M5
  - Adopt to prototype HW
  - Enhance power consumption
- M6
  - Gather feedback from users

Release	
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Roadmap

- M7
  - Broader public test
  - Million user simulation
- Release
  - Party
  - Roundup development

Release	
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Android

- What is Android
- Key features
- Android's architecture
- How Android works
- Why we chose Android
- Our use of Android
- Demo

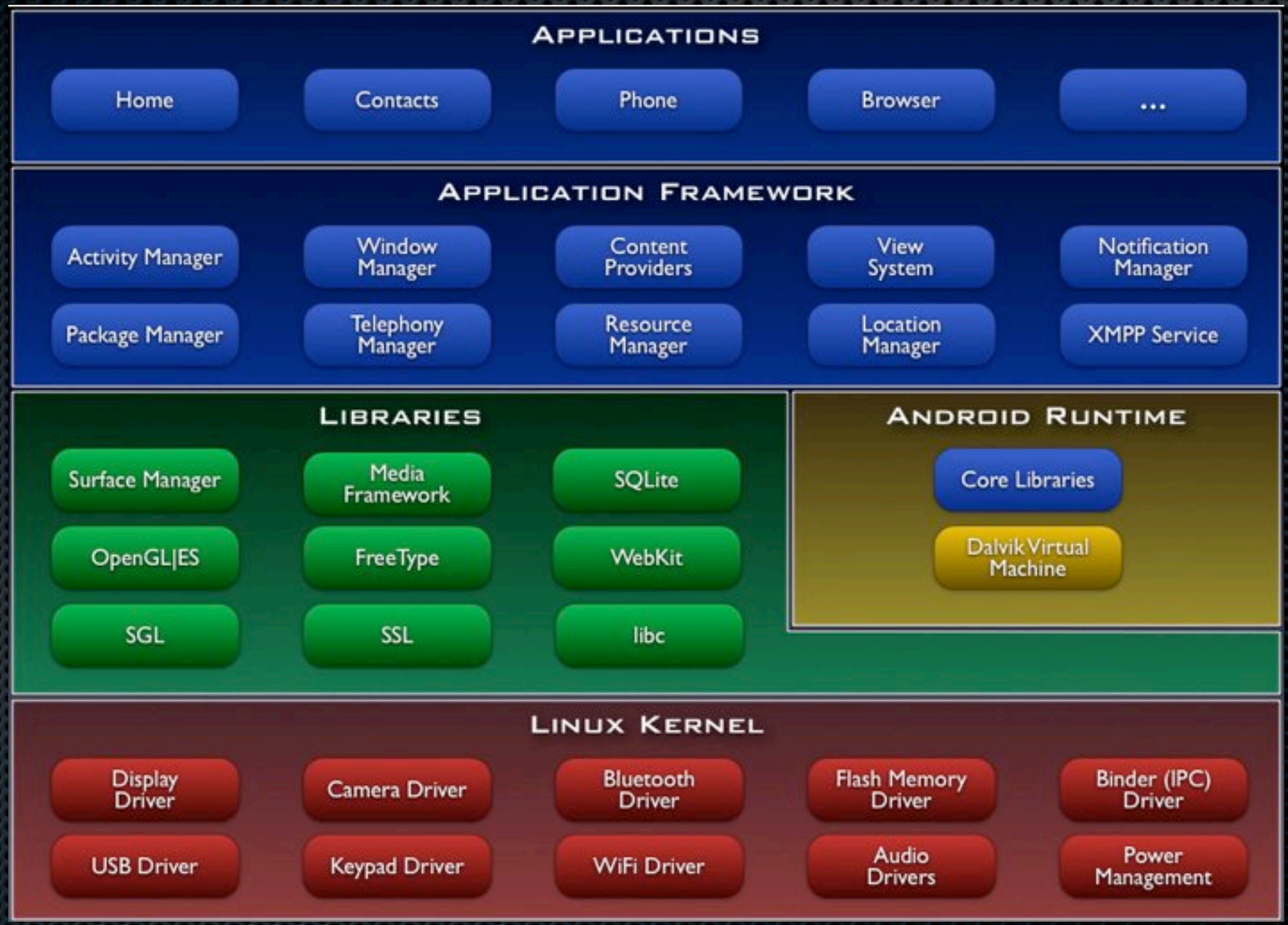
What is Android?

- Software stack platform
- Developed by Google
- Includes operating system, middleware and key applications

Key features

- Application framework
  - Enables reuse of components
  - Enables replacement of components
- Dalvik virtual machine (optimized for mobile devices)
- Optimized 2D graphics
- Support for common image formats
- GSM telephony support

Androids architecture



Why we chose Android?

- Big company support.
- License free.
- Very adoptable.
- Good support for graphics.
- Stable platform.
- Hardware for testing available soon.

How Android works?

- Home application manages the others.
- One application has multiple Activities.
- Each Activity (a screen) has multiple Views.
- Each View has multiple components.

Our use of Android

- Only one application.
- Home application has to be customized.
  - Hidden to the user.
  - Directly launches our application.
- Future versions may have more than one application.
  - Home application will have to be customized again.
    - We will be able to select the application we want to run.

Demo!

Web Interface

Web Interface

- Registering new users
- Authenticating the users
- Social networking
- Connecting to jabber account
- Send emoticons from webpage to jabber users as IM
- Future: Facebook API

Registering new users

- First time users can register and get a generated response number that will be used to register the watch
  - Check the user is the legal owner of the watch
  - Requiremnets:
    - MAC address
    - Jabber account
  - The user will receive a registration confirmation number

User authentication

- User can use their jabber account for login
- The system will connect to a remote jabber database and retrieve the user data

Social networking

- Own a profile
- Search friends
- Add them to the contact list
- Send and receive messages and smileys
- Groups

Connect to the jabber account

- Connect to jabber account
- Show the contact list
- Add, delete modify the user

Send emoticons

- Sending emoticons to any jabber account

Future releases

- Add Facebook API like games, funs
- Customizable emoticons
- ...