# The Gears of Minkepedia.org

An introduction to the technologies and design principles behind Minkepedia

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#### Agenda

This is a brief overview of the technologies and basic design principles behind the social knowledge mapping platform Minkepedia.

For an introduction to what Minkepedia actually wants to achieve for its users, see theses slides:

http://www.minkepedia.org/slides/minkepedia-slides.pdf

Or visit <a href="http://www.minkepedia.org">http://www.minkepedia.org</a>

# Main Drivers: User Experience

- Rich visual user experience
  - Explorative Prototyping with RAD tool
  - Interactive knowledge maps make up the core of the UI
- Aggressive use of available web technologies
  => support only cutting edge browsers
- Support for mobile use of the platform (both via web and native apps)

# Main Drivers: Minimal Effort

- Minimal investment into infrastructure
  - Platform Administration (setup, update, backup, security, etc.)
  - Standard Functionality (e.g. account management, messaging, etc.)
- Smooth ramp up of load (user and data)
- Cheap scalability for peak times

Popularity always comes in hiccups.

- Design cheating for minimum working efforts
  - Take deliberate shortcuts to working functionality
  - Fix bad smells when the new functionality has proven worth the effort

# Technology Decisions



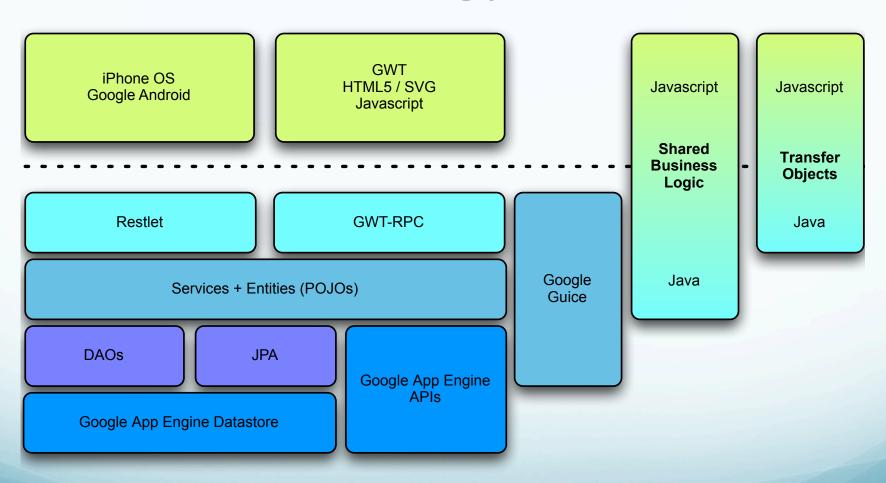




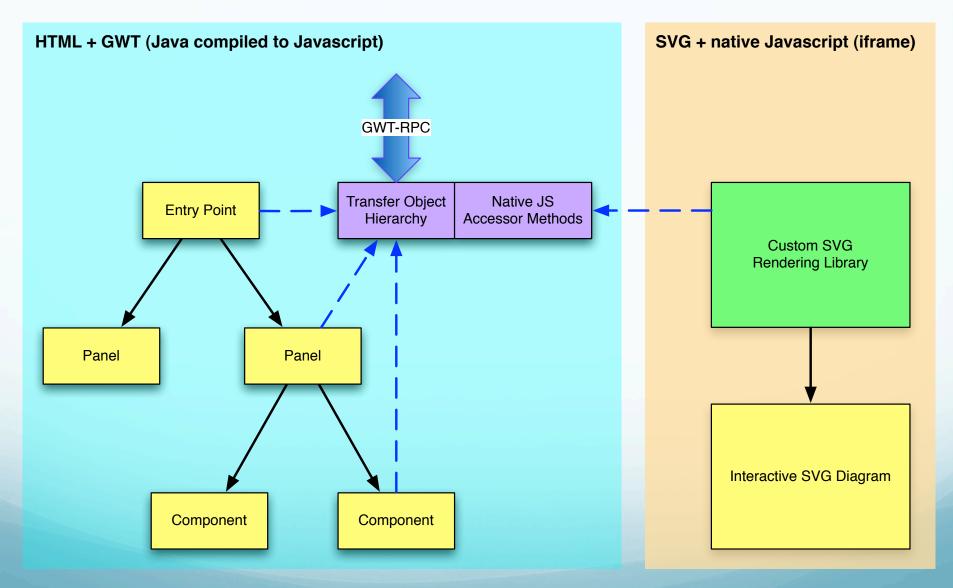




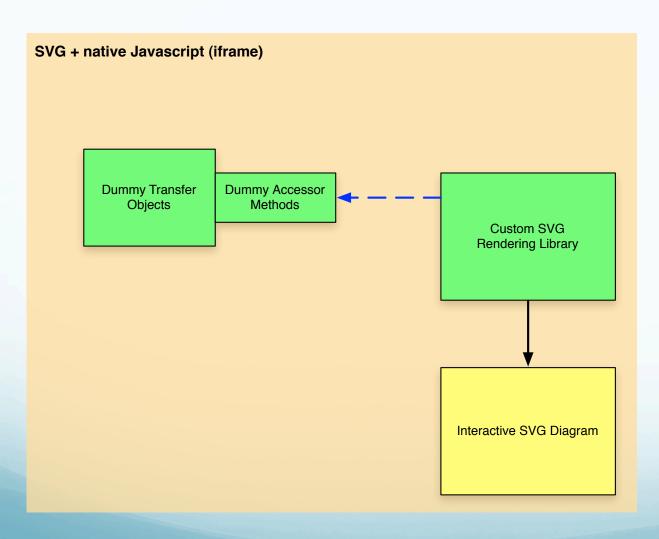
#### Technology Stack



#### The web frontend

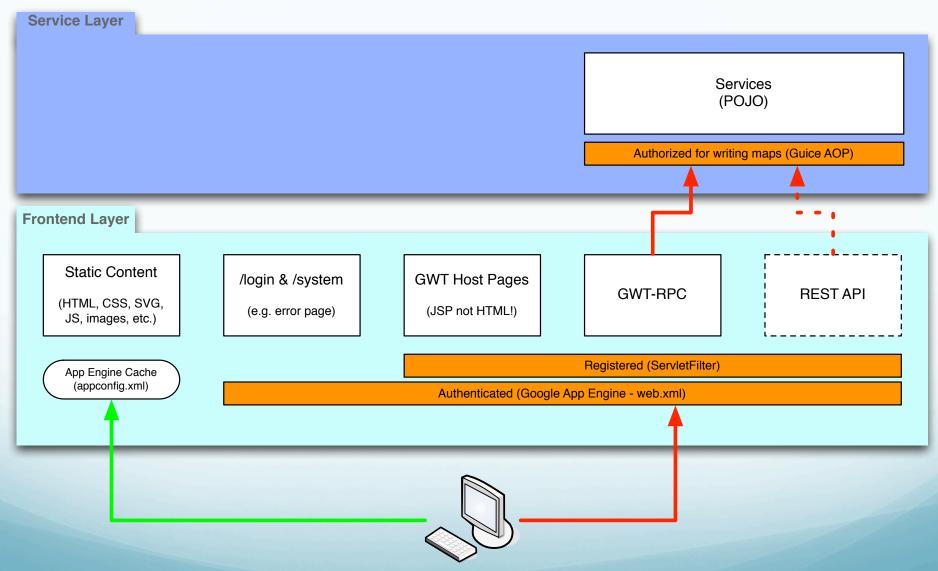


#### Mocked SVG Development

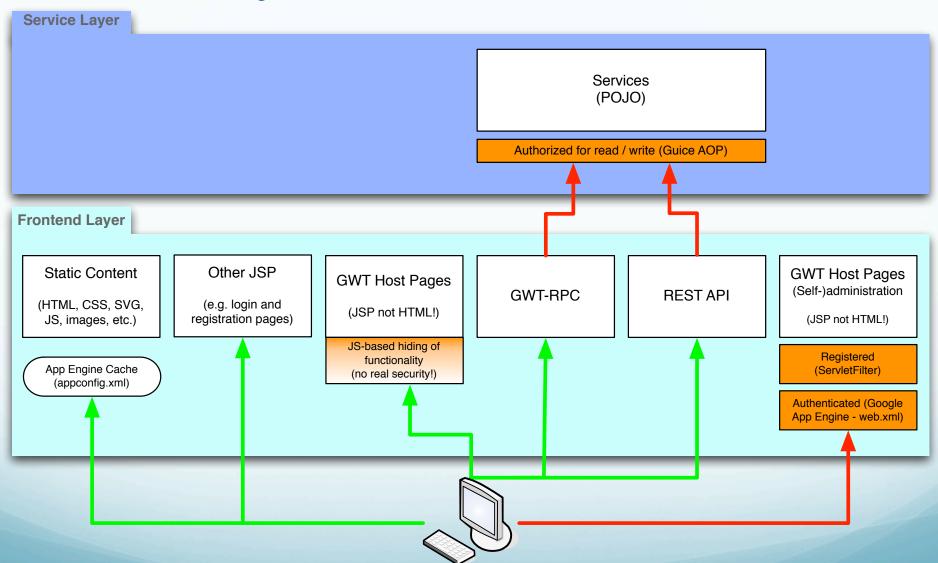


- Static SVG file
- Mocked map data
- No server needed
- No GWT knowledge needed
- Easy definition of test cases for the rendering lib

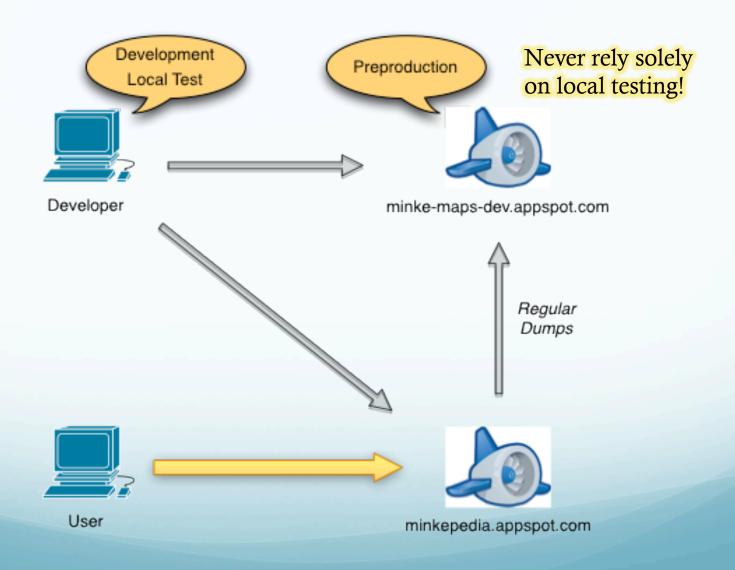
# Current Security Model



### Security with unrestricted read



#### Test & Deployment



#### Roadmap

- Next Steps:
  - General read-only access
  - New UI (support for mobile Webkit-based browsers)
  - Clean up of service layer
  - Maven-based build
- → Launch of the OpenSource Project (Q2/11?)

General public access only after implementing safeguards against vandalism!



#### Thank you for your attention!

Stay in touch:

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