

Ideas - Web Application – Part 1



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Module: System Implementation
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Outline

- 1 Introduction
- 2 Ranking-Algorithm
- 3 Architecture
- 4 User Features
- 5 Localisation



Source: <https://pixabay.com/de/idee-gl%C3%BChbirne-beleuchtet-hell-1651681/>





2. Ranking-Algorithm

Hot-ratings:

- likes: 50%
- followers: 30%
- age: 20%

Trending-ratings:

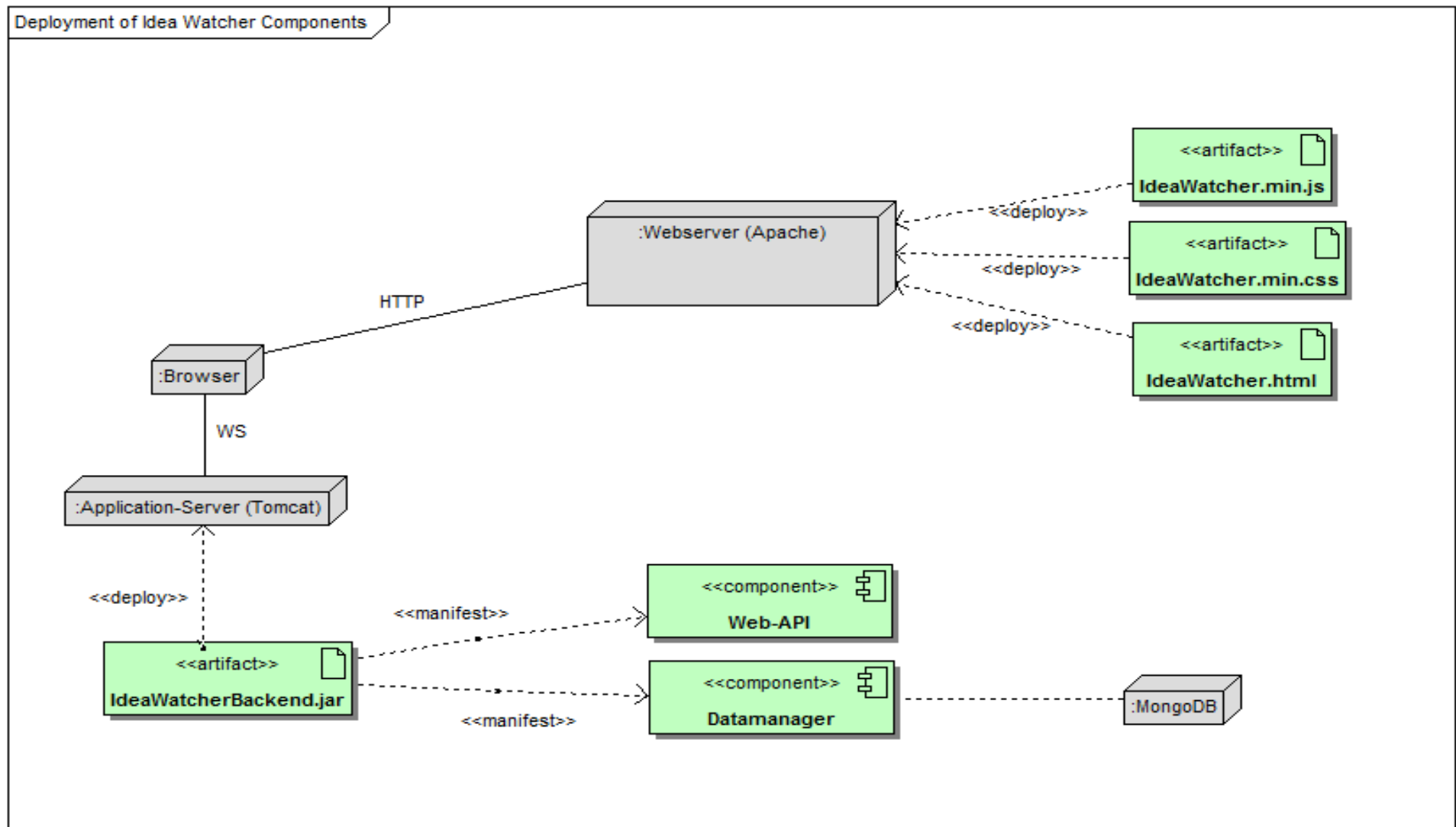
- likes: 30%
- followers: 10%
- age: 60%

Fresh-ratings:

- likes: 0%
- followers: 0%
- age: 100%



3. Architecture

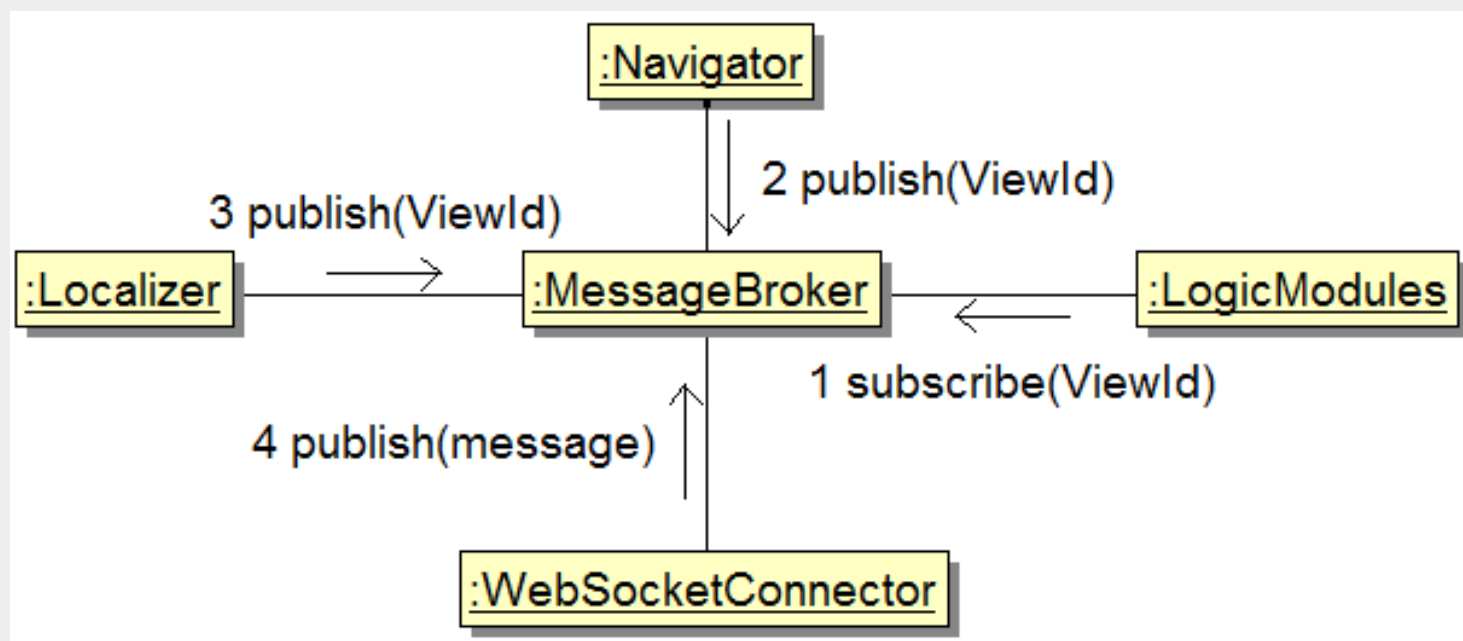




3.1 MessageBroker

Publish / Subscribe Pattern

- Promote Loose coupling
- Backend communication

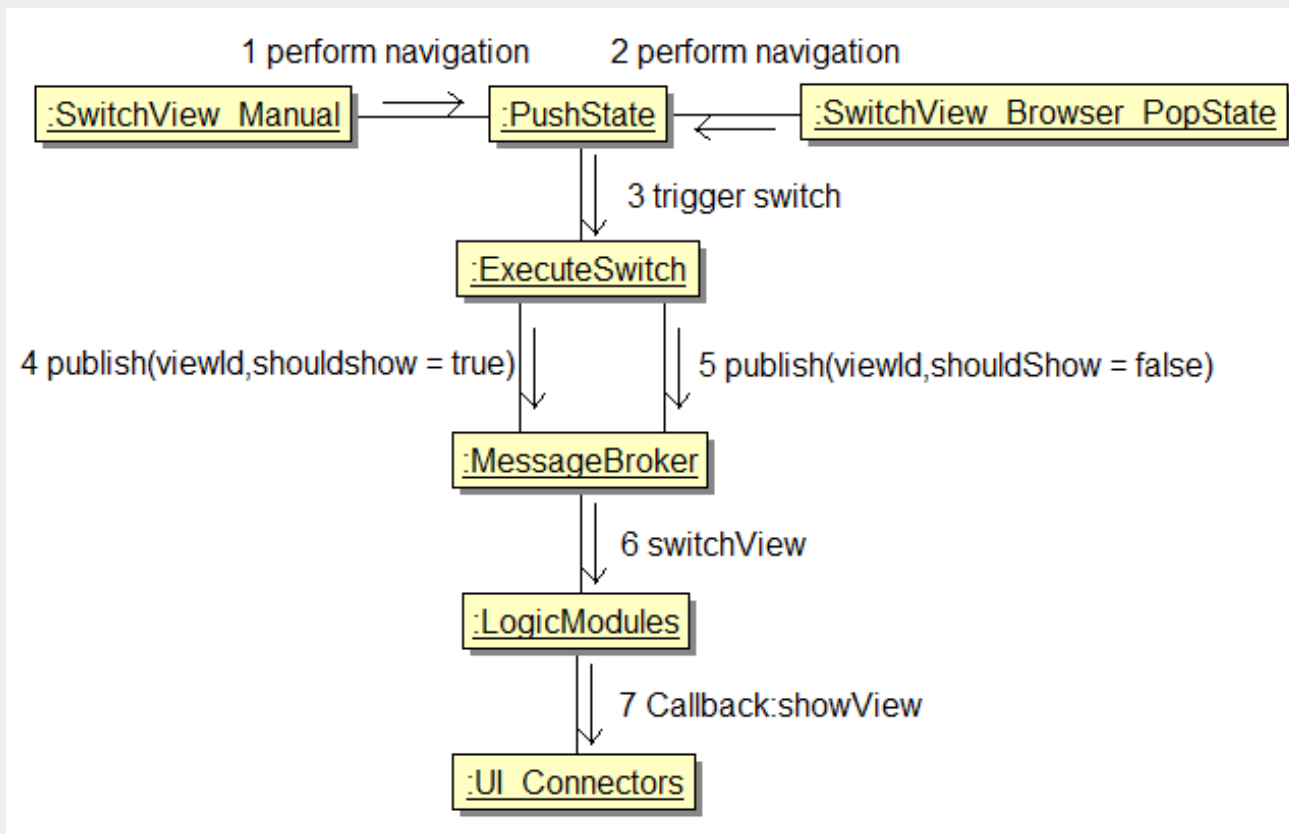




3.2 Navigator

HTML5 History API

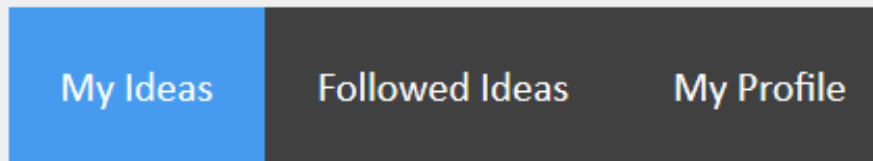
- Native Navigation
- Complete URL support
- Bookmarking in SPA
- Utilizes MessageBroker
- CSS: display:none;



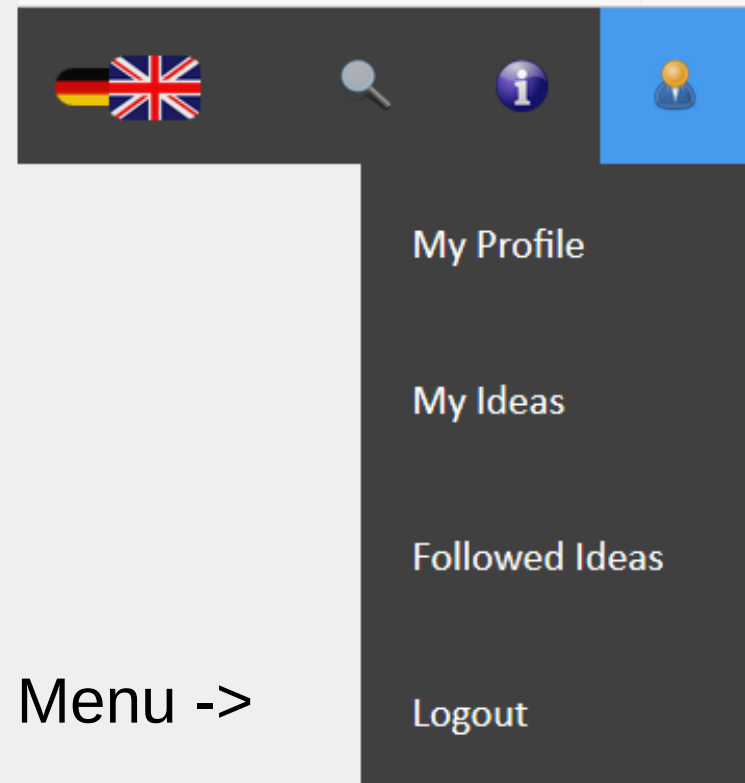


4. User Features

User Sub-Sidebar



Dropdown Menu ->



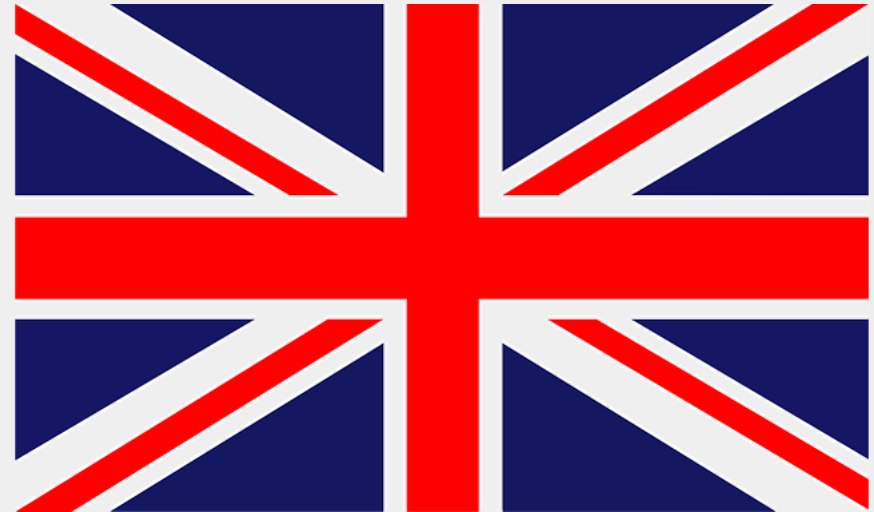
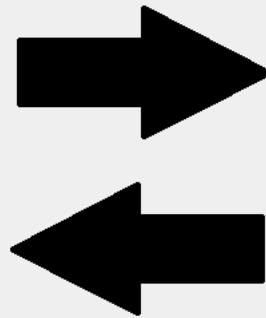


5. Localisation

German

to

English



Quelle: http://www.peterjockisch.de/images/500px-Flag_of_Germany.svg.png

Quelle: <http://www.englisch-hilfen.de/images/flags/230.gif>



5. Localisation

localizer.js

```
ideaWatcher.core.Localizer.About = ideaWatcher.core.Localizer.About || {  
  
  en_GB: {  
    header: "About"  
  },  
  de_DE: {  
    header: "Impressum"  
  }  
};
```

ui-Connector

```
function localizeView() {  
  
  var language = ideaWatcher.core.Localizer.getLanguage();  
  
  console.log("Starte Lokalisierung der About-View ...");  
  
  htmlHeader.textContent =  
    ideaWatcher.core.Localizer.About[language].header;  
  
}
```



End of part 1...





Appendix: Ranking-Algorithm

Pedal battery charger

If your battery is low, e.g. in your smartphone or your notebook, and you are far away from a power socket, then this gadget will charge your battery by your own muscle power. Just move the pedal and your force will be converted into electric energy which is usable for all kind of small devices. You can simply move it with your foot while you are sitting or with your hand while walking around.



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max likes = 14

$$5 / 14 = 0.357$$

≈ 1036800 seconds

max followers = 5

$$2 / 5 = 0.4$$

max age = 1814400

$$(1814400 - 1036800) / 1814400 = 0.429$$

Hot-ratings:

likes = 0.5

$$0.5 * 0.357$$

followers = 0.3

$$+ 0.3 * 0.4$$

age = 0.2

$$+ 0.2 * 0.429$$

$$\Rightarrow \text{hot-rank} = 0,3843$$