

UNLEASH THE **POWER OF THE GRAPH**

Real-world Use Cases

Axel Morgner (@amorgner)
Founder & CEO Structr

Please ask
questions via the
mobile app!



Engage



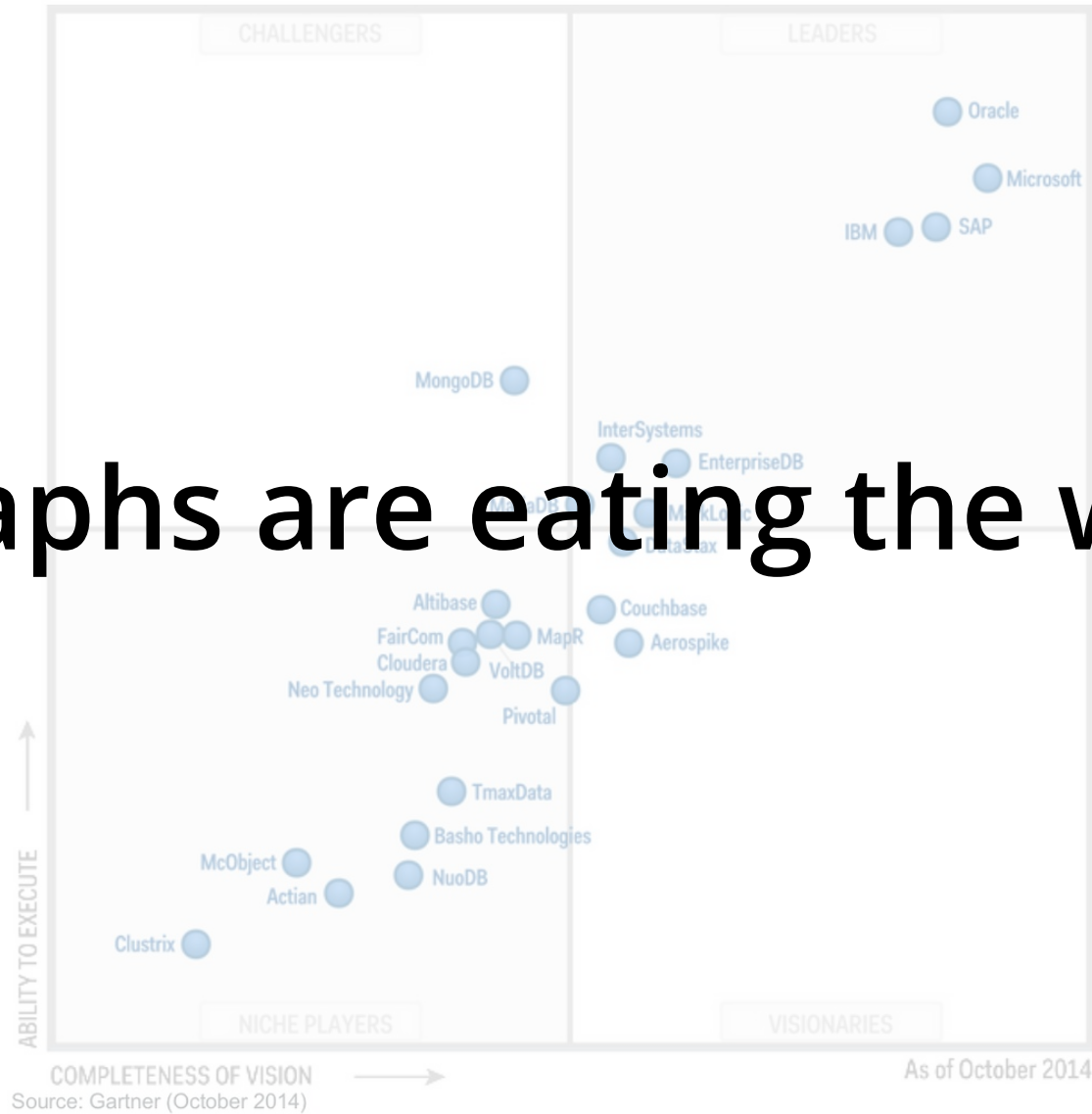
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Real-world Use Cases

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Graphs are eating the world



Graphs are eating the world

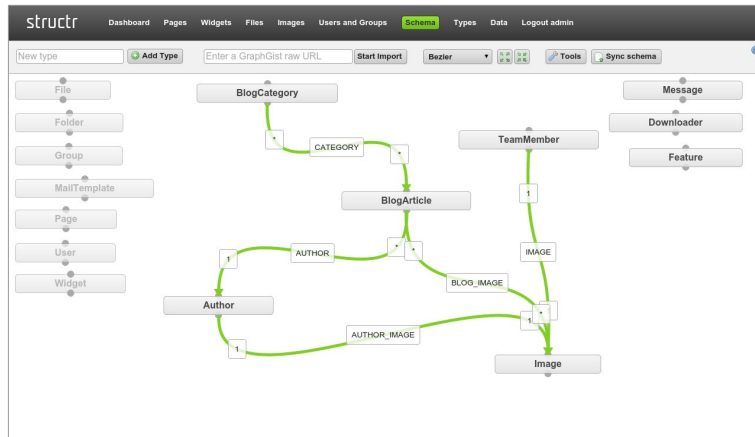


Graphs are eating the world



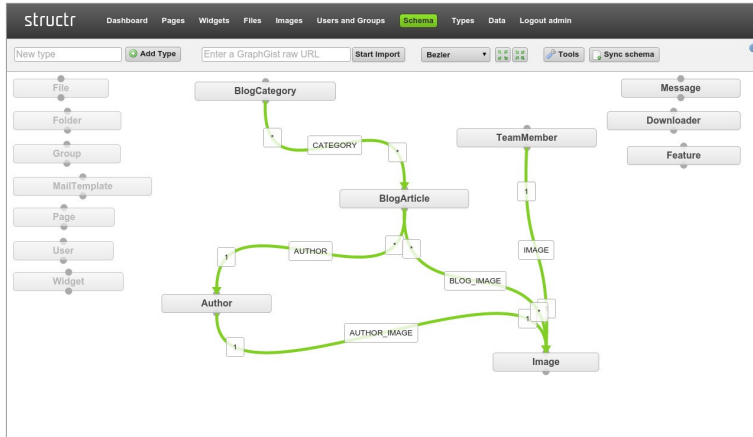
What is Structr?

What is Structr?



Rapid Application Development Tool

What is Structr?



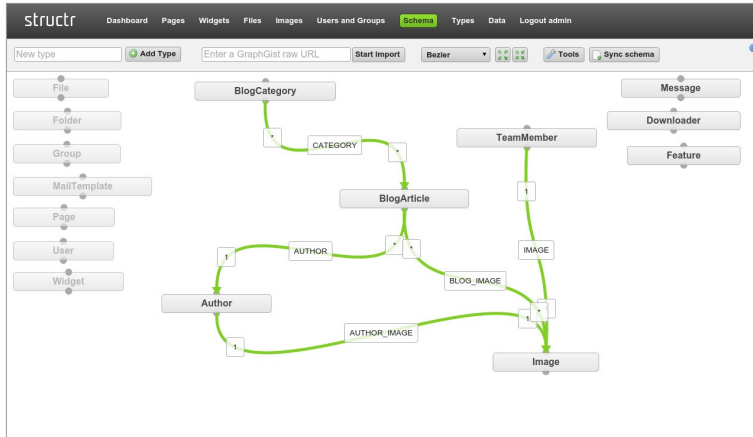
Rapid Application Development Tool

The screenshot shows a terminal window with a REST client interface. The command entered is `curl -HX-User:admin -HX-Password:admin http://0.0.0.0:8082/structr/rest/users/default`. The response is a JSON document representing two users: 'admin' and 'test'. The 'admin' user has fields for name, email, age, isAwesome, dateOfBirth, and groups. The 'test' user has similar fields but with null values for age, isAwesome, dateOfBirth, and groups. The terminal output shows the full JSON response, including a 'query time' and 'serialization_time'.

```
axel@dev2 ~$ curl -HX-User:admin -HX-Password:admin http://0.0.0.0:8082/structr/rest/users/default
{"query time": "0.002083623",
 "result count": 2,
 "result": [
  {
    "name": "admin",
    "eMail": "admin@localhost",
    "age": 42,
    "isAwesome": true,
    "dateOfBirth": "2014-10-09T15:15:28+0200",
    "groups": []
  },
  {
    "name": "test",
    "eMail": null,
    "age": null,
    "isAwesome": false,
    "dateOfBirth": null,
    "groups": [
      "1bbaee808099423dbb95ebba73ea53a9"
    ]
  }
 ],
 "serialization_time": "0.000523227"
}
axel@dev2 ~$
```

JSON Document Database

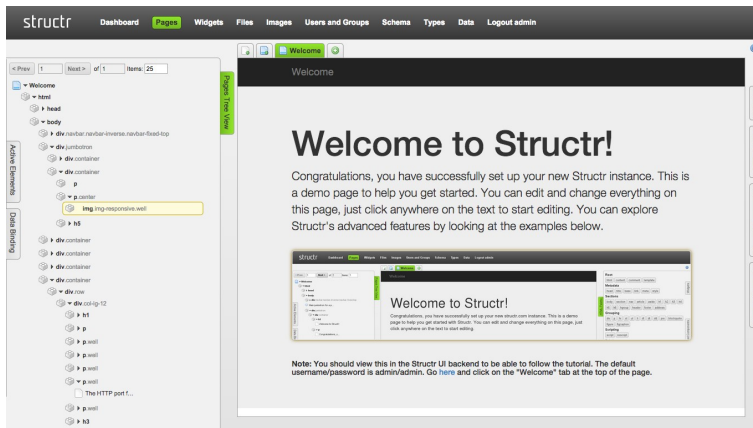
What is Structr?



```
axel@dev2 ~$ curl -HX-User:admin -HX-Password:admin http://0.0.0.0:8082/structr/rest/users/default
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  {
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    "age": 42,
    "isAwesome": true,
    "dateOfBirth": "2014-10-09T15:15:28+0200",
    "groups": []
  },
  {
    "name": "test",
    "eMail": null,
    "age": null,
    "isAwesome": false,
    "dateOfBirth": null,
    "groups": [
      "1bbaee808099423dbb95ebba73ea53a9"
    ]
  }
 ],
 "serialization_time": "0.000523227"
}
axel@dev2 ~$
```

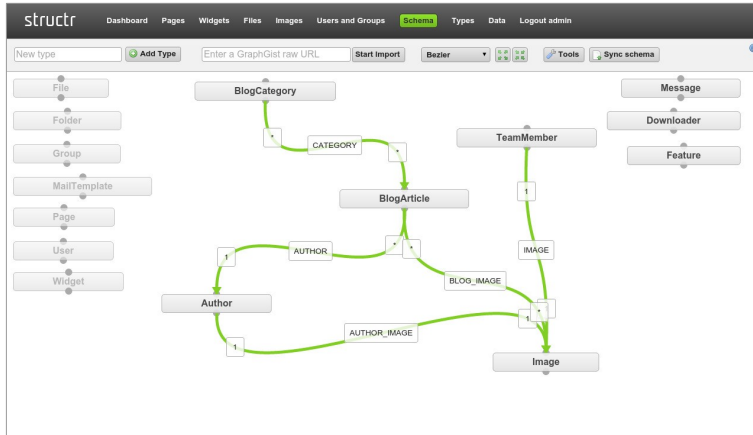
Rapid Application Development Tool

JSON Document Database



Content Management System

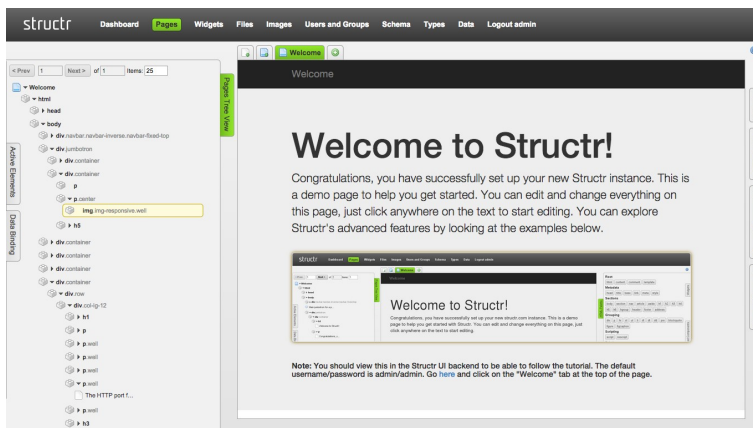
What is Structr?



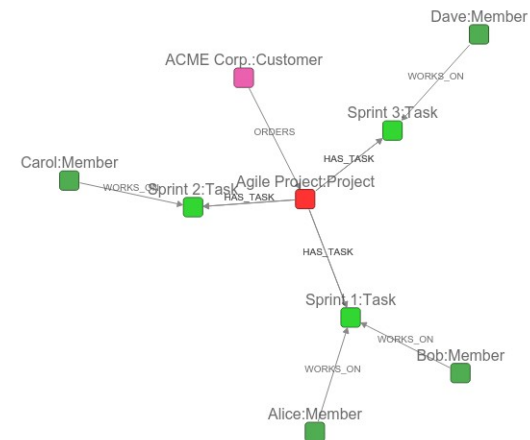
Rapid Application Development Tool

```
axel@dev2 ~$ curl -HX-User:admin -HX-Password:admin http://0.0.0.0:8082/structr/rest/users/default
{"query_time": "0.002083623",
 "result_count": 2,
 "result": [
  {
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    "age": 42,
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    "dateOfBirth": "2014-10-09T15:15:28+0200",
    "groups": []
  },
  {
    "name": "test",
    "eMail": null,
    "age": null,
    "isAwesome": false,
    "dateOfBirth": null,
    "groups": [
      "1bbaee868099423dbb95ebba73ea53a9"
    ]
  }
 ],
 "serialization_time": "0.000523227"
}
axel@dev2 ~$
```

JSON Document Database

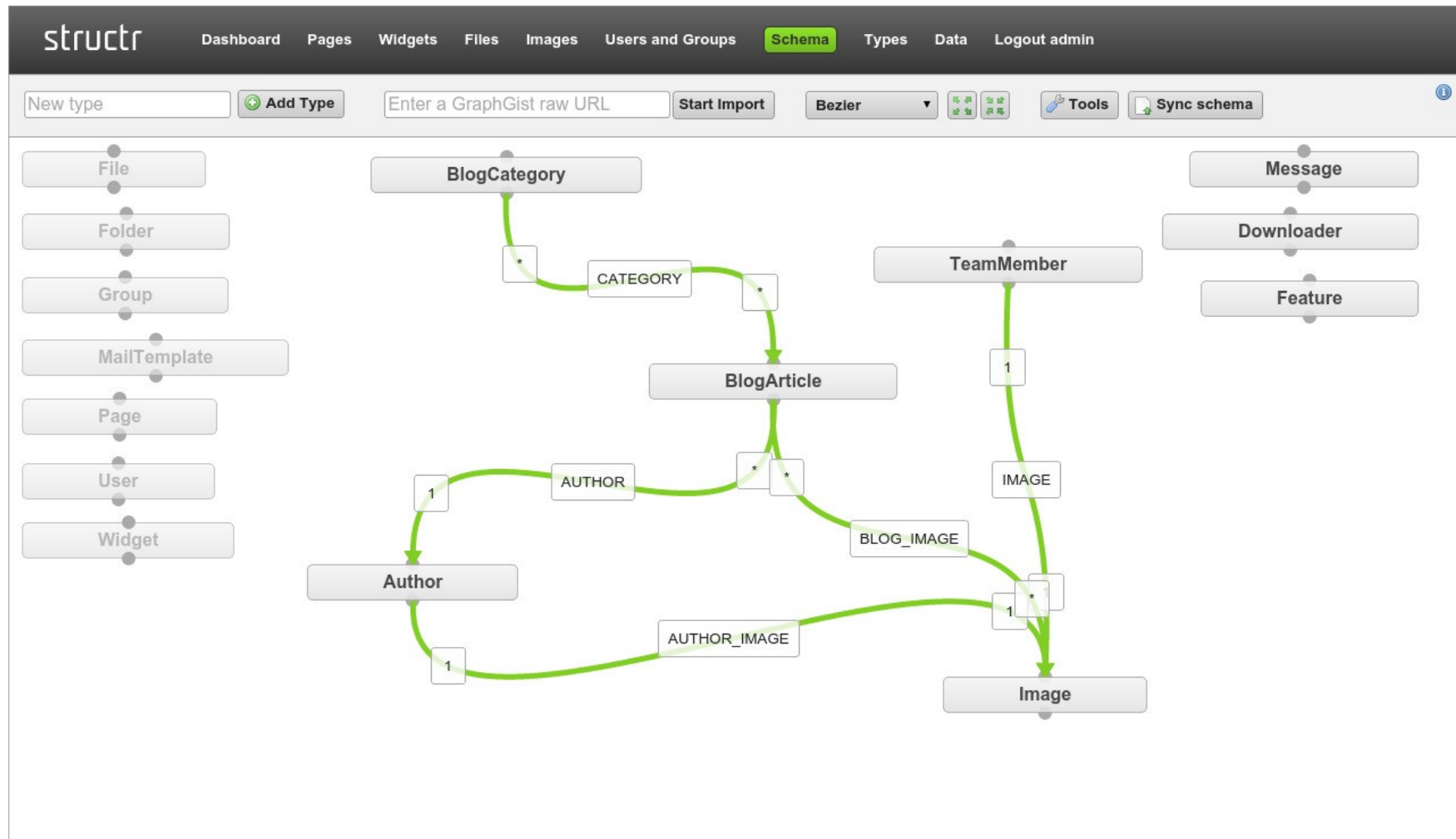


Content Management System

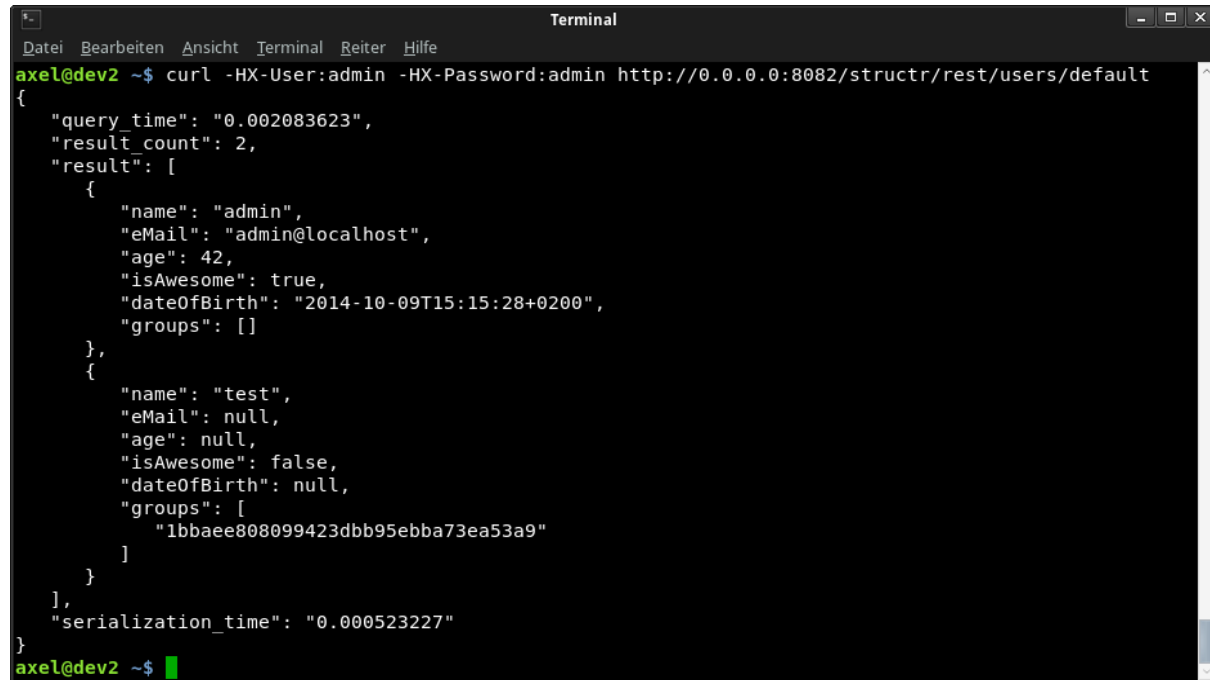


Graph Editor and Viz Tool

Rapid Application Development

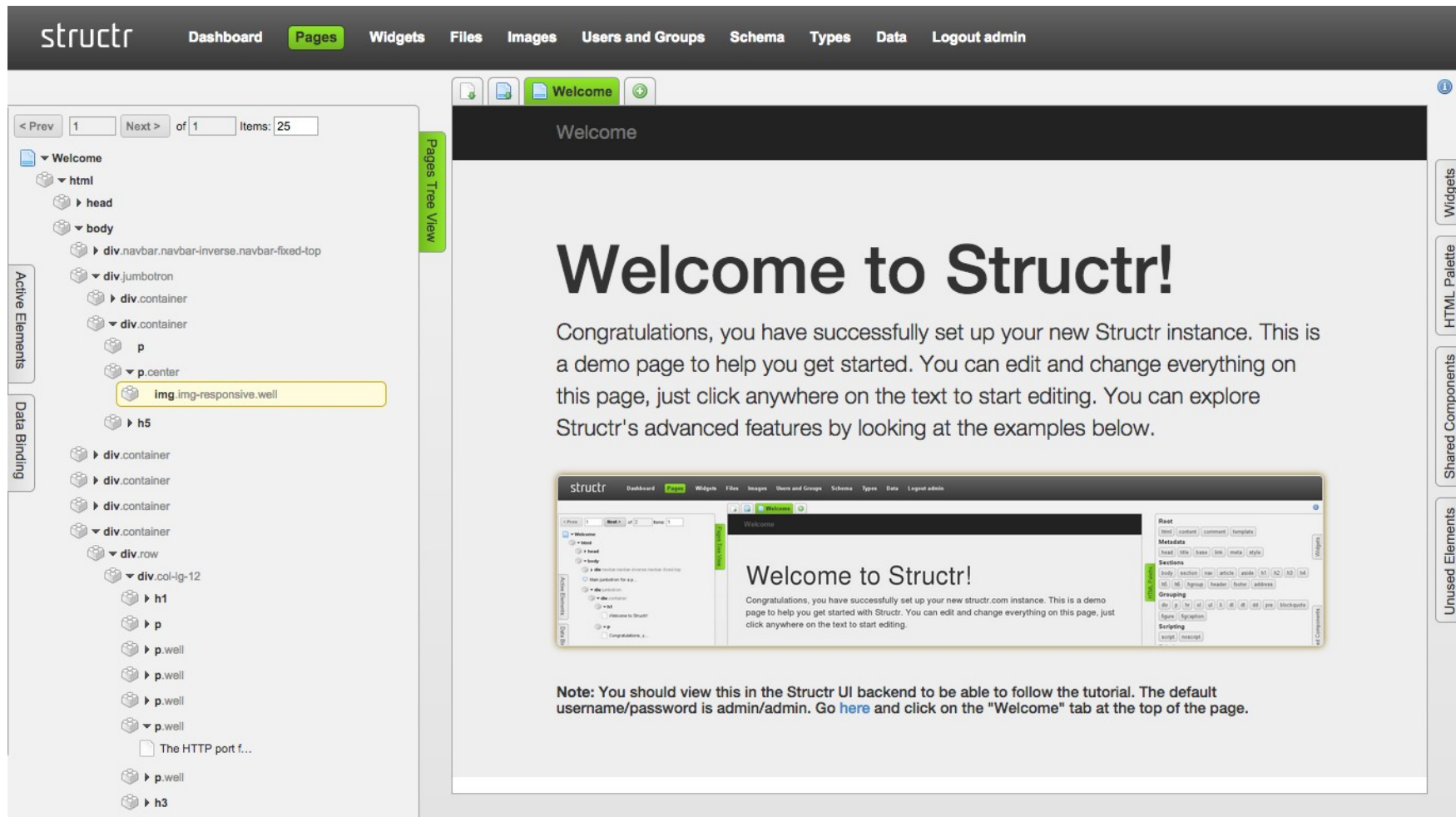


JSON Document Database

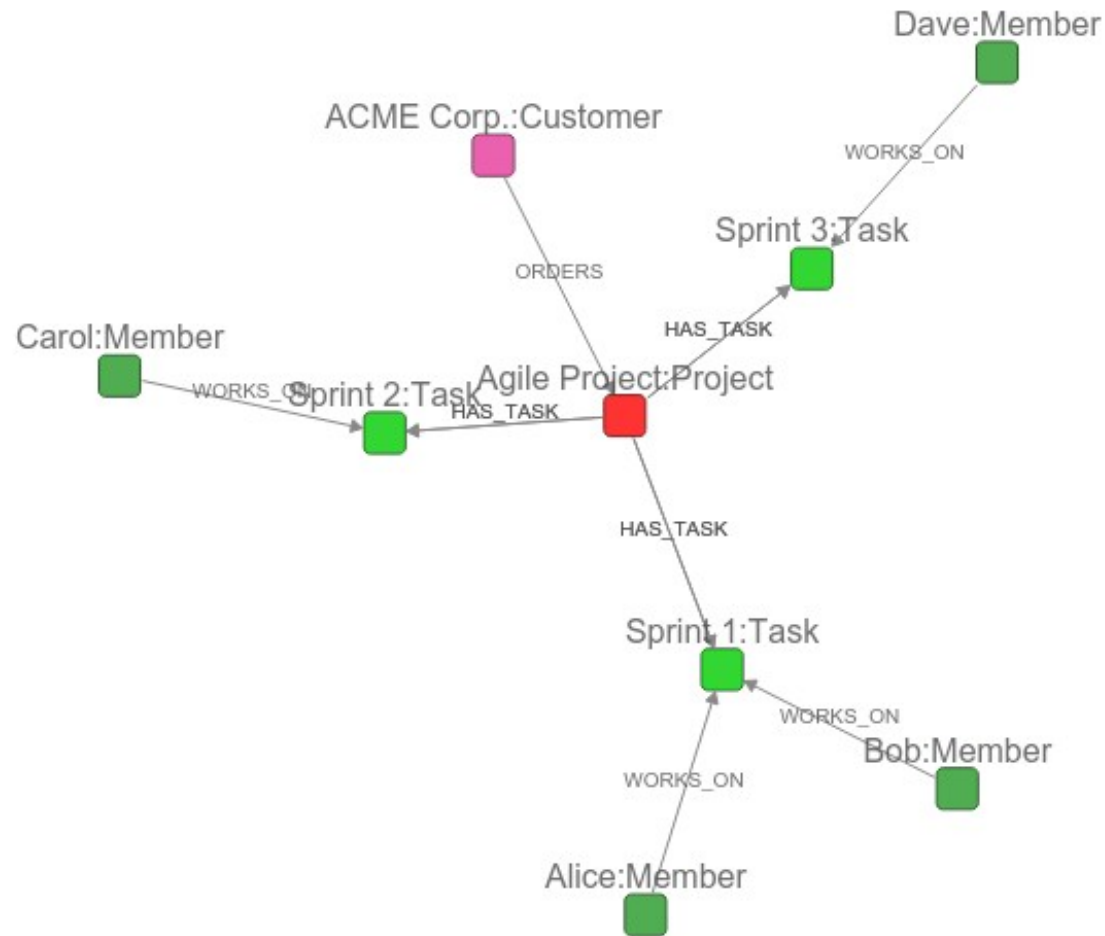


```
Terminal
Datei Bearbeiten Ansicht Terminal Reiter Hilfe
axel@dev2 ~$ curl -HX-User:admin -HX-Password:admin http://0.0.0.0:8082/structr/rest/users/default
{
  "query_time": "0.002083623",
  "result_count": 2,
  "result": [
    {
      "name": "admin",
      "eMail": "admin@localhost",
      "age": 42,
      "isAwesome": true,
      "dateOfBirth": "2014-10-09T15:15:28+0200",
      "groups": []
    },
    {
      "name": "test",
      "eMail": null,
      "age": null,
      "isAwesome": false,
      "dateOfBirth": null,
      "groups": [
        "1bbaee808099423dbb95ebba73ea53a9"
      ]
    }
  ],
  "serialization_time": "0.000523227"
}
axel@dev2 ~$
```

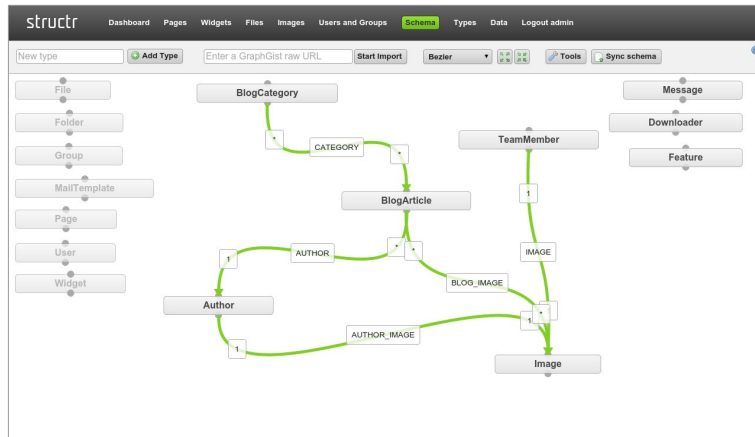
Content Management



Graph Editor and Visualisation



Structr is all of this:

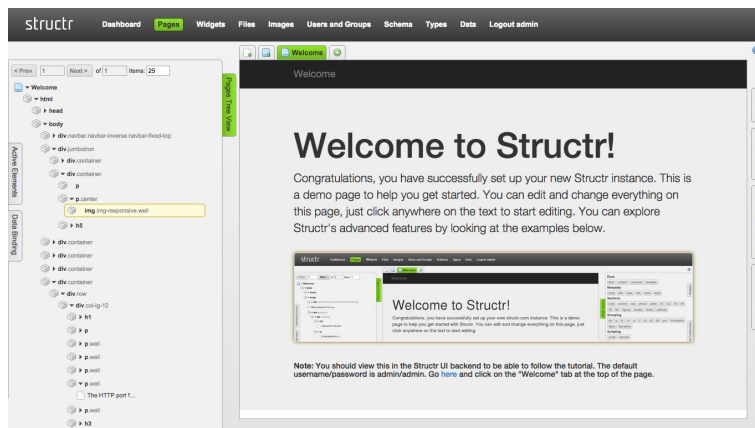


Rapid Application Development Tool

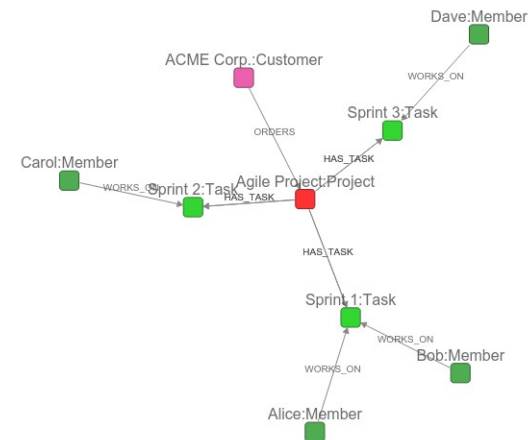
The screenshot shows a terminal window with a REST API call to Structr. The command is: `curl -HX-User:admin -HX-Password:admin http://0.0.0.0:8082/structr/rest/users/default`. The response is a JSON document:

```
{
  "query time": "0.002083623",
  "result count": 2,
  "result": [
    {
      "name": "admin",
      "eMail": "admin@localhost",
      "age": 42,
      "isAwesome": true,
      "dateOfBirth": "2014-10-09T15:15:28+0200",
      "groups": []
    },
    {
      "name": "test",
      "eMail": null,
      "age": null,
      "isAwesome": false,
      "dateOfBirth": null,
      "groups": [
        "1bbaee808099423dbb95ebba73ea53a9"
      ]
    }
  ]
},
{
  "serialization time": "0.000523227"
}
```

JSON Document Database



Content Management System



Graph Editor and Viz Tool

What can you do with it?

Use Case: Conference Tool



Requirements

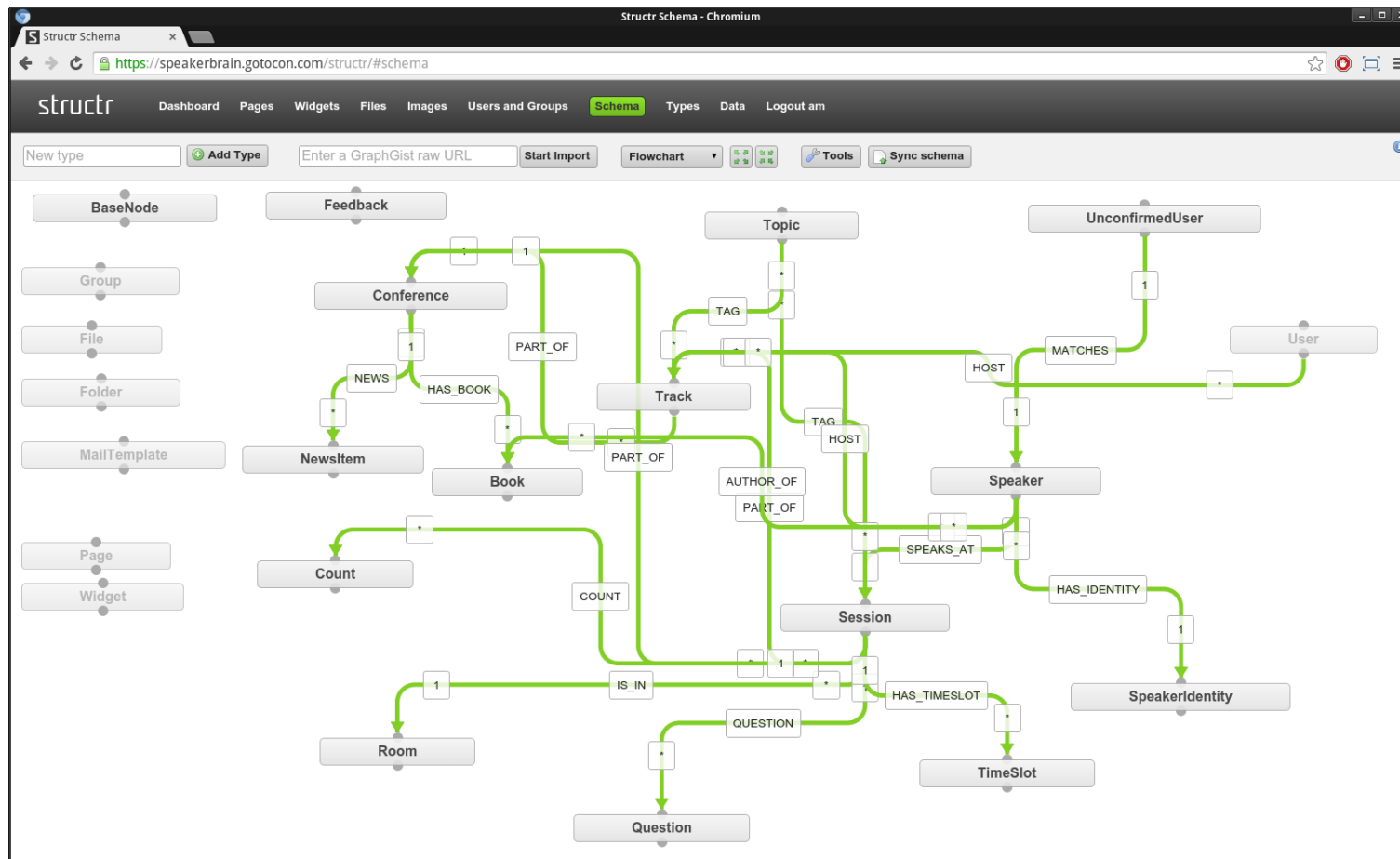
Analyze conference data

Collect votes

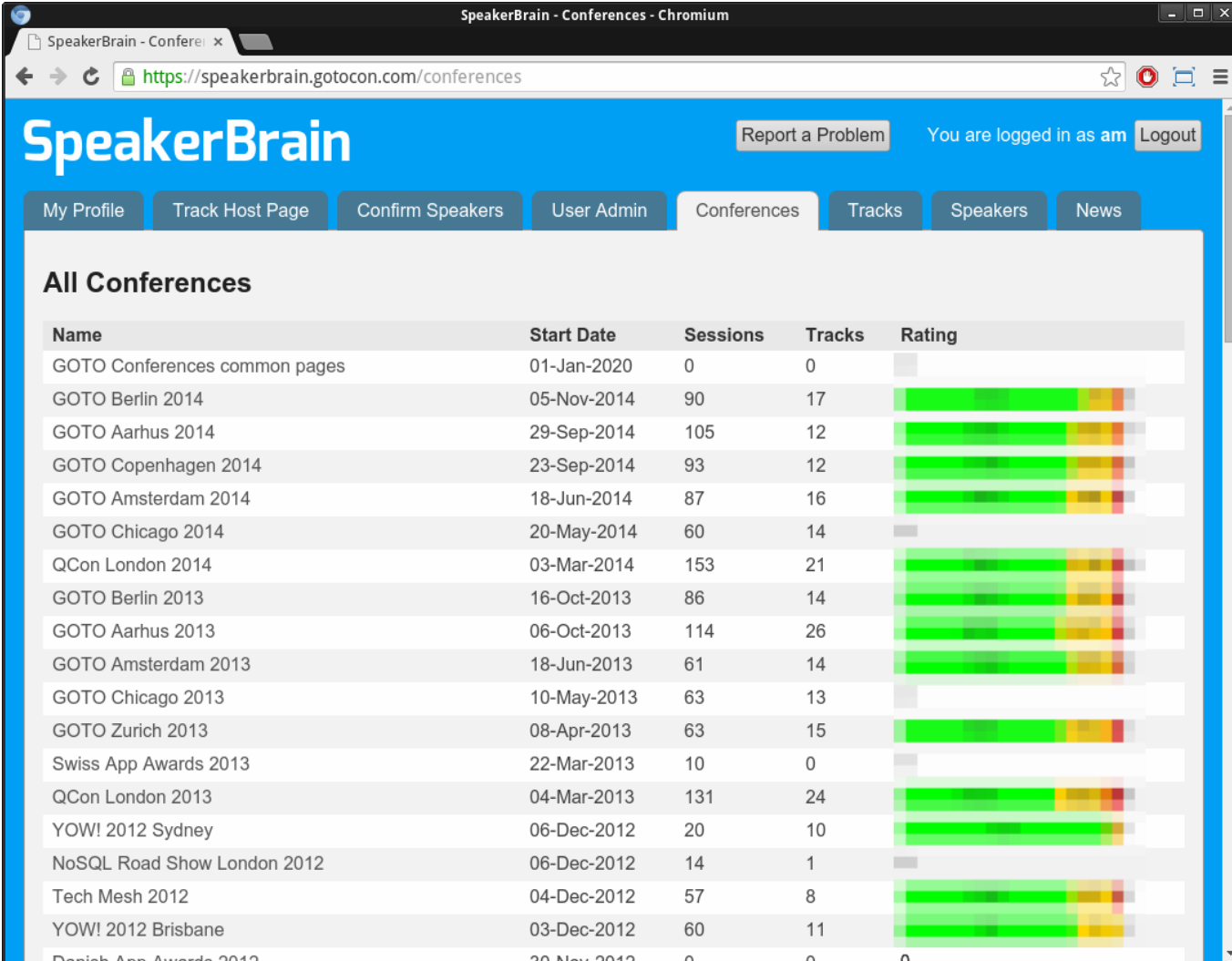
Backend for mobile apps

Self-service for speakers and track hosts

Use Case: Conference Tool



Use Case: Conference Tool



Name	Start Date	Sessions	Tracks	Rating
GOTO Conferences common pages	01-Jan-2020	0	0	
GOTO Berlin 2014	05-Nov-2014	90	17	
GOTO Aarhus 2014	29-Sep-2014	105	12	
GOTO Copenhagen 2014	23-Sep-2014	93	12	
GOTO Amsterdam 2014	18-Jun-2014	87	16	
GOTO Chicago 2014	20-May-2014	60	14	
QCon London 2014	03-Mar-2014	153	21	
GOTO Berlin 2013	16-Oct-2013	86	14	
GOTO Aarhus 2013	06-Oct-2013	114	26	
GOTO Amsterdam 2013	18-Jun-2013	61	14	
GOTO Chicago 2013	10-May-2013	63	13	
GOTO Zurich 2013	08-Apr-2013	63	15	
Swiss App Awards 2013	22-Mar-2013	10	0	
QCon London 2013	04-Mar-2013	131	24	
YOW! 2012 Sydney	06-Dec-2012	20	10	
NoSQL Road Show London 2012	06-Dec-2012	14	1	
Tech Mesh 2012	04-Dec-2012	57	8	
YOW! 2012 Brisbane	03-Dec-2012	60	11	
Danish App Awards 2012	20-Nov-2012	0	0	

Use Case: Conference Tool

SpeakerBrain Report a Problem You are logged in as am Logout

My Profile Track Host Page Confirm Speakers User Admin Conferences Tracks Speakers News

Best Speakers

Consider only sessions after

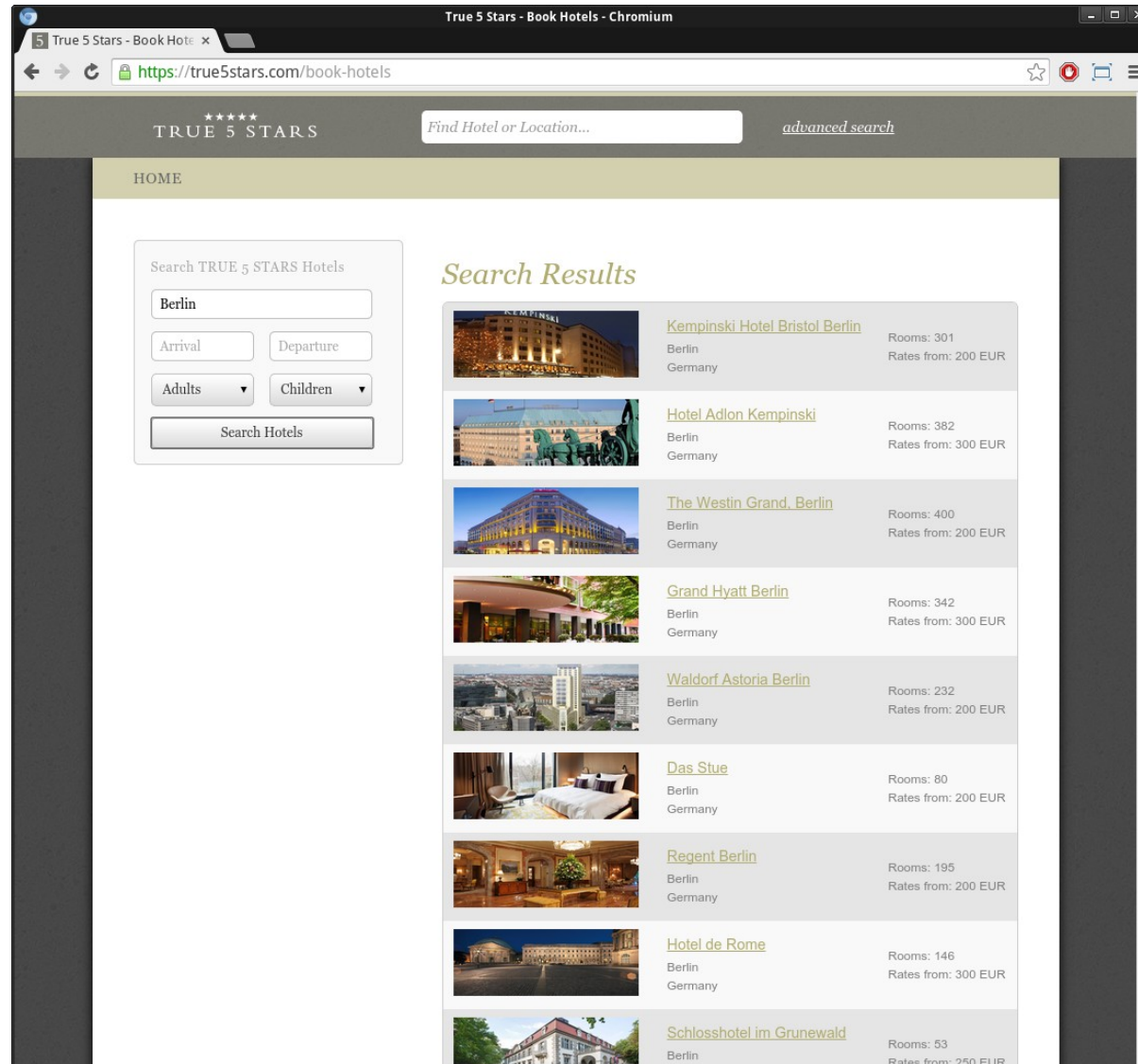
You can enter a custom formula to calculate a score the sessions will be sorted by, using the following parameters:

- a Number of counted attendees
- g Green votes
- y Yellow votes
- r Red votes

Score formula:

Title	Speakers	Attendees	Rating	Score
Opening Keynote: Software...	Martin Fowler	296	<div><div></div></div>	
Simple Scalability -...	Colin Humphreys	106	<div><div></div></div>	
Segways, Pandas & Fitness...	Preben Thorø Janne Jul Jensen	85	<div><div></div></div>	
Craftsmanship over Hype	Enrique Comba Riepenhausen	75	<div><div></div></div>	
Make Sense of your Logs: From...	Britta Weber	71	<div><div></div></div>	
Writing highly Concurrent...	Tim Fox	67	<div><div></div></div>	
Segways, Pandas & Fitness...	Preben Thorø Janne Jul Jensen	61	<div><div></div></div>	
Aeron: The Next Generation in...	Martin Thompson	58	<div><div></div></div>	
The Sky is Falling...	Benjamin Teysse	54	<div><div></div></div>	

Use Case: Travel Website



Use Case: Travel Website



Highlights

Image database (> 80k images)

2,500 hotel fact-sheets

Neo4j Spatial for maps and geo-search

Booking interface (Expedia)

Use Case: Recommendations

JAKO-O Shop ♥ Kindermode, Babymode, Spielzeug & Kindermöbel - Chromium

JAKO-O Shop ♥ Kinder x

www.jako-o.de/

Über uns Second Hand Basar Forum Newsletter Service Kontakt Hilfe & FAQ

Mein JAKO-O | Anmelden

Was möchten Sie finden?

ZUM WARENKORB
3 Artikel | € 144,85
Merkzettel Direktbestellformular

Produkte **SHOP** Themen **SHOP** Qualität Engagement

Kindermode Spielzeug Baby Sport Kinderzimmer Kinderfest Praktisches Basteln Medien % SALE %

GESCHENKE BERATER

Endlich das richtige Geschenk!
Wer Kindern etwas schenken möchte, will wissen, was wirklich ankommt.
Mit unserem mitlernenden Geschenke-Berater bekommen Kinder das perfekte Geschenk.
Genial einfach – einfach genial!

Sie ist 3-5 Jahre und mein Patenkind

 Rollen-Spielerin  Kuscheltier-Fan  Tier-Fan  Entdeckerin  Bücherwurm  Action-Heldin  Fruchtluft-Heldin

Schieben Sie den Regler nach oben, um das Kind zu beschreiben!

So einfach geht's:

Use Case: Recommendations

JAKO-O Shop ♥ Kinder x

www.jako-o.de/

Sie ist 3-5 Jahre und mein Patenkind

Musik-Fan Fahrzeug-Fan Kleine Künstlerin **Baumeisterin** 30 % Wasserratte Kleine Genießerin Mode-Fan

Preis: 0 € mehr als 500 €

☐ Nur Sonderangebote









Alle Geschenke (1027)

- Baby
- Basteln
- Kinderzimmer
- Medien
- Mode
- Praktisches
- Spielzeug
- Sport & Outdoor

Ihre Bewertungs-Historie ist bisher leer

Berater neu starten

Sortieren nach: Beste Treffer

 LEGO® DUPLO® Supermarkt 10546, 39 Teile (0) <input type="radio"/> Passt <input type="radio"/> Passt nicht Hat sie bereits € 24,95	 Kreativset Stempeln HABA 5555 (0) <input type="radio"/> Passt <input type="radio"/> Passt nicht Hat sie bereits € 8,95	 Mein großes Bilderlesebuch (0) <input type="radio"/> Passt <input type="radio"/> Passt nicht Hat sie bereits € 9,99	 Rucksack klein (0) <input type="radio"/> Passt <input type="radio"/> Passt nicht Hat sie bereits € 24,95
 Kiga-Matchesack JAKO-O	 Bausteinesatz Stoff JAKO-O, 11-teilig	 Quadro Junior Bausatz	 Hula-Hoop-Reifen

Highlights

Real-time! (50-100 ms for 1,000 products)

Character-based product recommendations

Gamified UI

Logging & Analytics

Structr's Roadmap

CMS modules & simplified UI

GitHub integration

Improved graph editor & visualisation

Neo4j 2.2 (enhanced performance)

Info

Project website: <http://structr.org>

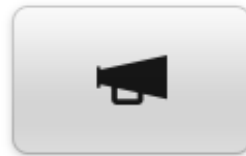
Snapshots & libraries: Maven Central

Current version: 1.1-SNAPSHOT (stable: 1.0)

Twitter: @structr

Questions?

Please evaluate
this talk via the
mobile app!



Engage



Thank You!