Hackathon 2018

Intro

On your marks, get set, hack! The first-ever Magnolia mini-hackathon, Dec 4th at 17:00.

Everyone with a "hack" idea makes a 2 minute pitch describing the project, the goal, and related technologies. Everyone then joins one of the projects to form teams of 2-6 people. You've got 3 hours to hack, eat pizza, and drink beverages. At 9pm, each team presents their results. The esteemed panel of judges chooses the winning project. There are prizes! Coaches from Magnolia will be on hand to help you with your projects.

What you need: A github account. A laptop. And either the Magnolia CLI or a Maven setup, ready to download Magnolia 6.

And bring your awesome idea for a hack. Or consider hacking on one of these proposed topics:

Schedule

Schedule	Do
17:15	Kickoff: describes the theme, timeline & rules.
17:30	Pitches
17:45	Team forming
18:00	Hack
19:00	Pizza
21:00	Presentations
21:30	Go home **or Hack on**.
Next Day at wrapup	Announce the winner - Give the prize.

Proposed Topics - From Magnolia

Headless Magnolia

Use the new Content Types and Delivery Endpoints to allow Content authors to manage content for interesting frontends - like Vue, Arduino, Alexa, etc.

Find Bar

Hack on the new Find Bar to Implement custom operations like "Create Virtual URI" or "Create website", or add custom search results from an external content source.

or Connect the Find bar to external content sources, to have it return external content in search results.

Periscope docs (contains info about relevant APIs and examples): https://documentation.magnolia-cms.com/display/DOCS60/Periscope+module

Autotagging

Hook up the DAM or other Magnolia content apps to AI-driven content auto-tagging web services.

(Clarify, Google,Watson...)

https://documentation.magnolia-cms.com/display/DOCS60/Image+recognition

https://documentation.magnolia-cms.com/display/DOCS60/Image+recognition+via+Amazon+Rekognition

POC:

Magnolia IDE

Implement Auto-suggest and Auto-complete in a code editor by way of a Magnolia REST endpoint which exposes the Magnolia Registered templates, dialogs, apps, etc.

A few possible editors:

	Plugin Language	Getting started
Atom	ECMAScript 6 (JavaScript)	https://blog.github.com/2016-08-19-building-your-first-atom-plugin/
VSCode	TypeScript or JavaScript	https://code.visualstudio.com/docs/extensions/example-hello-world
Sublime 3	Python	https://cnpagency.com/blog/creating-sublime-text-3-plugins-part-1/
Eclipse	Java	https://www.eclipse.org/articles/Article-Your%20First%20Plug-in/YourFirstPlugin.html
IntelliJ	Java (using Gradle)	https://www.jetbrains.org/intellij/sdk/docs/basics/getting_started.html

Resources

https://langserver.org/

https://github.com/redhat-developer/yaml-language-server

http://schemastore.org/json/

Possible Approach for Eclipse

1. Checkout the existing Eclipse plugin for Magnolia.
2. Using this as a guide we extend the existing YAML editor.
3. Create a YAML template editor with property suggest features.
4. Try and use the Development Tools module to create intellisense for the dialog property.

Workshop

Dig into what you learned earlier in the days workshops.

Other topic Ideas

- Problems view
  - A web page (or IDE panel) which shows the list of problems from the definitions app.
- XML config sources
  - (just need to plug in parser logic and configure)
- Live Reload of Magnolia Admincentral
  - Whenever I change a definition YAML file, the Admincentral instantly "reloads" to show the change.

Your Proposed Topics

ⓘ Share your ideas here. Just edit this Wiki page.

(Topic name)

(Topic description)

(Your name)

App with Master/Detail View

(Topic description)

Vivian Steller

GraphQL

GraphQL in Magnolia

Vivian Steller

GUI for Content Types

Use React to build a simple GUI to create and edit Content Type YAML files.

- Christopher Zimmermann

IOC Info

App to list internals of running webapp.
Productivity tool.

- Sasha

Development setup

Download credentials

(At the hackathon you will receive necessary credentials for Enterprise version.)

Maven

For most ideas, we suggest you use a single-webapp setup based on Magnolia's default EE-pro-demo one. That is, copy this pom.xml and add custom dependencies as needed.

Also, make sure you have your maven configuration ready for pulling EE dependencies: https://documentation.magnolia-cms.com/display/DEV/Maven+setup

We've set up a temporary account with access to EE artifacts on nexus that will be deactivated after the conference.

CLI / Bundle download

Use the CLI to get Magnolia 6

```
mgnl jumpstart
```

And choose "magnolia-enterprise-pro-demo-webapp".

Use the CLI to start Magnolia

```
mgnl start
```

For instructions on installing the CLI, see:
https://documentation.magnolia-cms.com/display/DOCS60/Magnolia+CLI

License

You may use the following license:

Magnolia 6

Magnolia 6 license

```
License owner: hackathon2018@magnolia-cms.com
License expiration: 2018-12-06
License key:
LS0tLS1CRUdJTiBQR1AgTUVTU0FHRS0tLS0tClZlcnNpb246IEJDUEcgdjEuNTgKCm93SjRuSnZBeTh6RXhDaWIrdkg3dFNBbkRzYlRCeGlTdUhQ
VDgzSnlNcE5UODRwVFk5aWNDNVZEU2xNVlhGS1QKRlF4TUZBd05yQXhNclV5TkZaeGRReFNNREF3dHVNcFNpNG96OC9PS2JhUE45QXowREhUTVFX
UTBWMzU1WG1xUgpiVVppY25aaVNVWitIa2lwUTI1aWVsNStUbWFpYm5KdXNWNXlmaTVYYWtWQlpsRmlDVkM3TFVpQnJxR1Jyb0VaClYyNStTbWxP
YXJGdGFsNUphbEZCVVdaeEtsZHFTbVlKMkJLRW1HNUJVWDVhYWpISTdzUWNIU1MxSFhOWW1CaVoKR05oWW1VQ09aK0RpRklENWJuVVc4Ly9TWGNx
NmZoUC9uTytaM1RUOXdGWGhUWC9zdHB2NXBQV1o4VnhmdXZGTwpabjNxdWoxZkd0MTFtMnNYWFY1NFRpS3I1WVFYbTZxVFdWMXQ4Kytwcy9ZcXZa
dS9VVDMyQi92ajJhYzRqUnI4ClRpbXVZMzAzSldEQzdWZDZ6SHNucEN0OUNXN2FxWC9HMDJUbXk2MG5qalZNUGw4NjlVUloxczdBNThHL2Z3dVcK
M1FwVm5maFlxMDhiQUJWM2tYMD0KPTcvRkUKLS0tLS1FTkQgUEdQIE1FU1NBR0UtLS0tLQo=
```

Operational

Teams

- Each team create a wiki page under the public hackathon wiki page.
- Each team creates a github project for their code.
- Each team can create a room on our slack channel for their group. Chat on slack: "Mgnl Community".
    - https://join.slack.com/t/mgnlcommunity/signup?x=x-491002537027-496014100023

- Hackathon 2018 - Content types GUI
- Hackathon 2018 - Find Bar
- Hackathon 2018 - Headless
- Hackathon 2018 - Magnolia IDE

We will fork the repos to our new community github account.

https://github.com/magnolia-community

Scoring

Score Card

Criteria		Weight	Score (1-5)
Progress	How far did the team get? Is there something working at all?	15	
Usefulness.	If completed, is this something people would actually use?	5	
Interesting.		5	
Technical style points.	It can be hacky, but is it a cool hack?	5	
Presentation.	Is it convincing? Can you understand the "problem" and the "solution"?	5	

Content to hack on

Movie database?

TV database?

Magnolia Tech Deck?

https://docs.google.com/spreadsheets/d/1wTlhTxIb3zn62vRerpXwSnOjCVrm1dMTDD3ovlvZyuY/edit#gid=0