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There Must be Rules!

By

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Who are we?

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Why Rules?

- Rules are about Reactions to events which happen on your site
- Use it for automated workflows
- Configure custom actions to be executed by modules



Examples

- Notify me when a user posts a comment on my site
- or just when an anonymous user posts a comment containing some certain bad words



Anatomy of a Rule

- A rule consists of:
 - One or more events
 - A set of actions
 - A set of conditions that determine whether the rule should execute



Events

- A user has logged in
- Content has been updated
- State Transition
- A product has been added to the cart



Actions

- Grant a role to a user
- Set a data value
- Create an entity



Conditions

- Content is of type
- User has roles
- Data comparison



Combining Rules and Data

- Configuring data sources
- Use the data selector to get what you need.
- Provide some fixed configuration, e.g. select one of the available options or provide a text.
- Switch between both modes as you like



Components

- Grouping a set of actions or conditions together so that they can be reused.
- Reusable on their own so they can be invoked by other rules
- Or by custom code
- Or by test cases
- Reuse
 - via actions or conditions
 - via modules, e.g. VBO
 - or by custom code
 - or by test cases



Scheduling

- Can schedule actions to be performed at specific times
- Schedule the evaluation of a component
- With any kind of parameters!



Loops

- Can iterate over a set of data and perform actions against multiple items



Extending Rules

- As it's Drupal, you can define you own events, conditions and actions
- Rules provides a solid API for adding event, actions and conditions
- Used by a lot of modules
- Benefits from integration with entity API
- and more



Rules in Action

- How rules interacts with other Drupal Modules
- Using a Real-life case study





How can we charge different VAT for different products?

- Rules' APIs allow modules to re-use it and to embed some of its UI
- Drupal Commerce does so
- Uses a generated component for applying VAT



Video Demo



I've decided to discount some products...

- 10% off
- But only this week
- And only T-Shirts
- And maybe just on products that have been on the site for a while...just so I can clear some stock



Video Demo



That worked great! But now I am out of stock...

- Can you set up something so people can get an email when items are back in stock?



Add some new modules...

- Rules integrates with Flag
- Allow the customer to set a flag when an item is out of stock



The “Back in Stock” Rule

- After updating a Commerce product
- If product is back in stock
- Fetch users who have flagged the product
- Loop over the users
- and send a mail to each of them
- reset the flag for each of them



Video Demo



It's working really well - I had to hire someone to load on my new stock.

- Now I need to make sure they can't put stuff on the site before I check it



Add some new modules

- Workbench
- with Rules!



Workbench Moderation Rules

- Event: item move between workflow states
- Action: email is sent to site owner



Video Demo



Now I have loads of products... and loads of orders... how can I process them all quickly?



Video Demo



I want to end my promotion when I've sold 100 items... how can I schedule it to finish? **Special offer Monday**

- auto unpublish the offer Tuesday
- auto republish on Monday



Video Demo



Scheduled Rule - Abandoned Carts

- Check if user has completed
- Use Scheduler
- Send email on cart abandoned



Video Demo



OK I want to set up a free gift when a certain coupon is added and the customer has one at least 2 t-shirts in their cart but doesn't have any shoes and no other items in a promotion and there should only be 2 free gifts per customer.



Time for Questions!