DRUPALCON

Portland

MAY 20-24 2013

Collaborative Learning Systems in Drupal: A Case Study

AVRAM SAND AND FABIAN FRANZ

ARE YOU IN THE RIGHT PLACE?

ARE YOU IN THE RIGHT PLACE?

- Education Professional?
- Education Enthusiast?
- Drupal beginner?

INTRODUCING POPULATION SERVICES INTERNATIONAL (PSI)

psi

Healthy lives. Measurable results.

THE TASK AHEAD

- **Build an LMS to teach marketing skills to teams based all around the world**

WAIT A SECOND

WHAT IS AN LMS?

- Learning Management System
- System for delivery of online courses / online learning

WHAT IS AN LMS?

THE TASK AHEAD

- **Build an LMS to teach marketable skills to teams based all around the world**

THE TASK AHEAD

- Build an LMS to teach marketable skills to teams based all around the world
- Make it social, collaborative, and rewarding

SOCIAL

- Chat with other learners in your course
- Mentorships based on geographic areas

COLLABORATIVE

COLLABORATIVE

- No one works alone
- All learners collaborate with others on a final brief
- Learners receive several rounds of feedback before completing brief

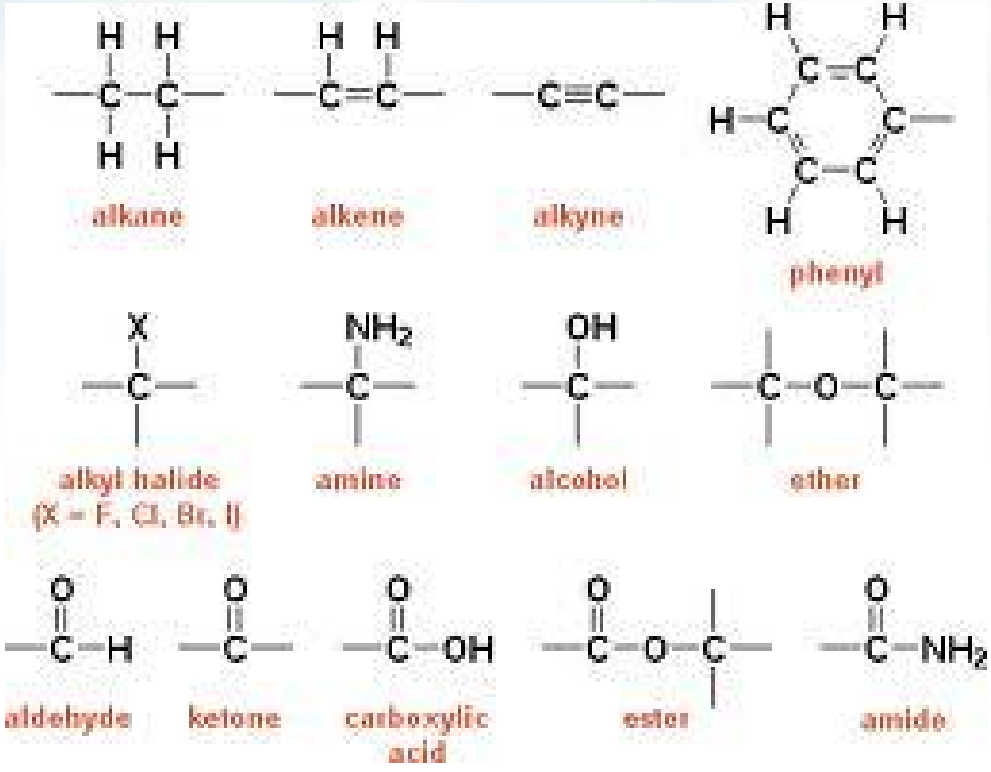
REWARDING

- Each learner completes the course with a full marketing brief
- Gamification!

THE MODULES

- Organic Groups
- Drupalchat
- Achievements
- User Points
- Workbench
- Rules

INTRO TO ORGANIC GROUPS



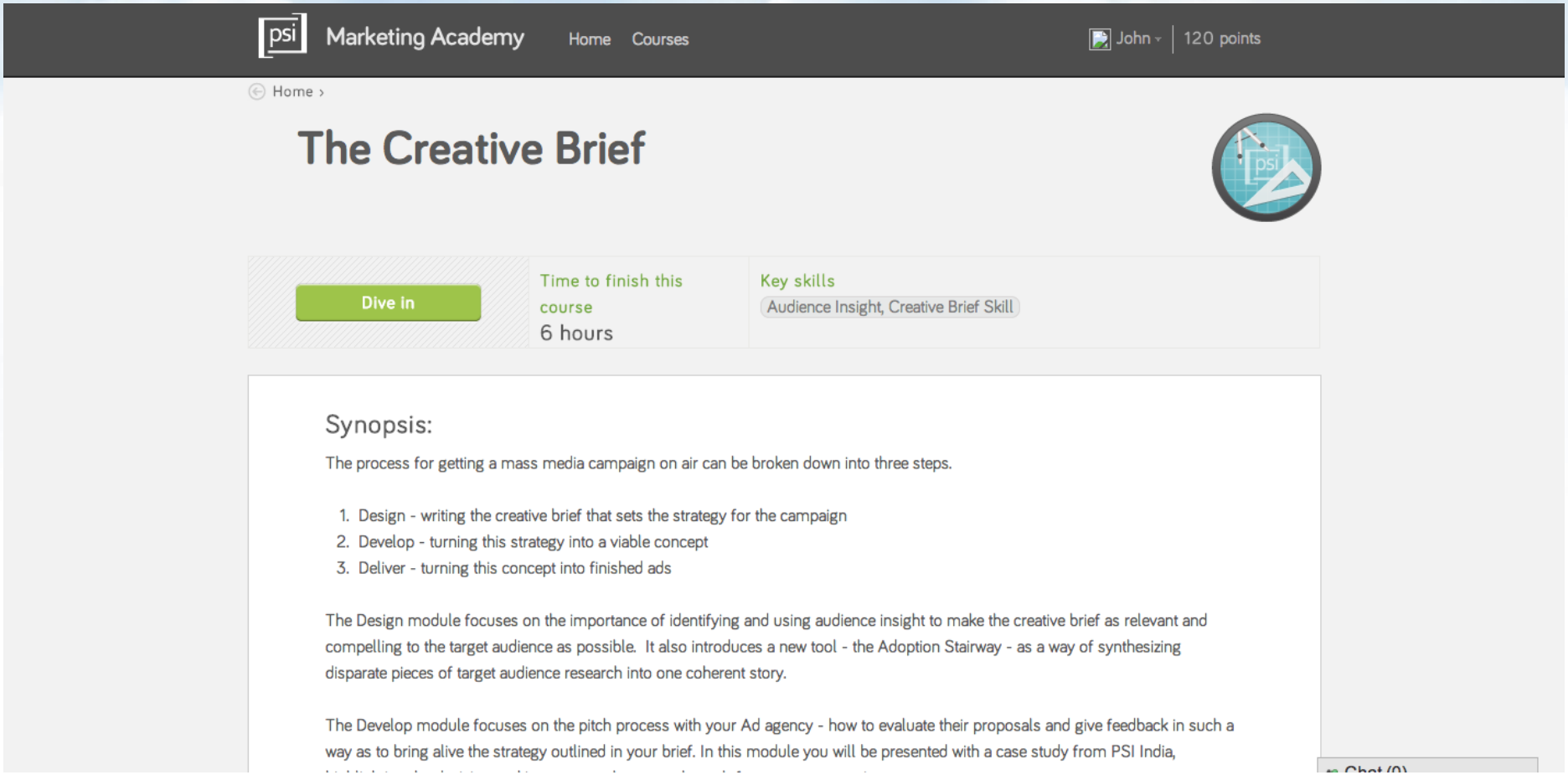
INTRO TO ORGANIC GROUPS

- Permissions silos
- Users can join a group to gain access to content

COURSES AS OG

- Learners can join specific courses
- Courses can be assigned mentors
- Contacts are grouped together by course

COURSES AS OG



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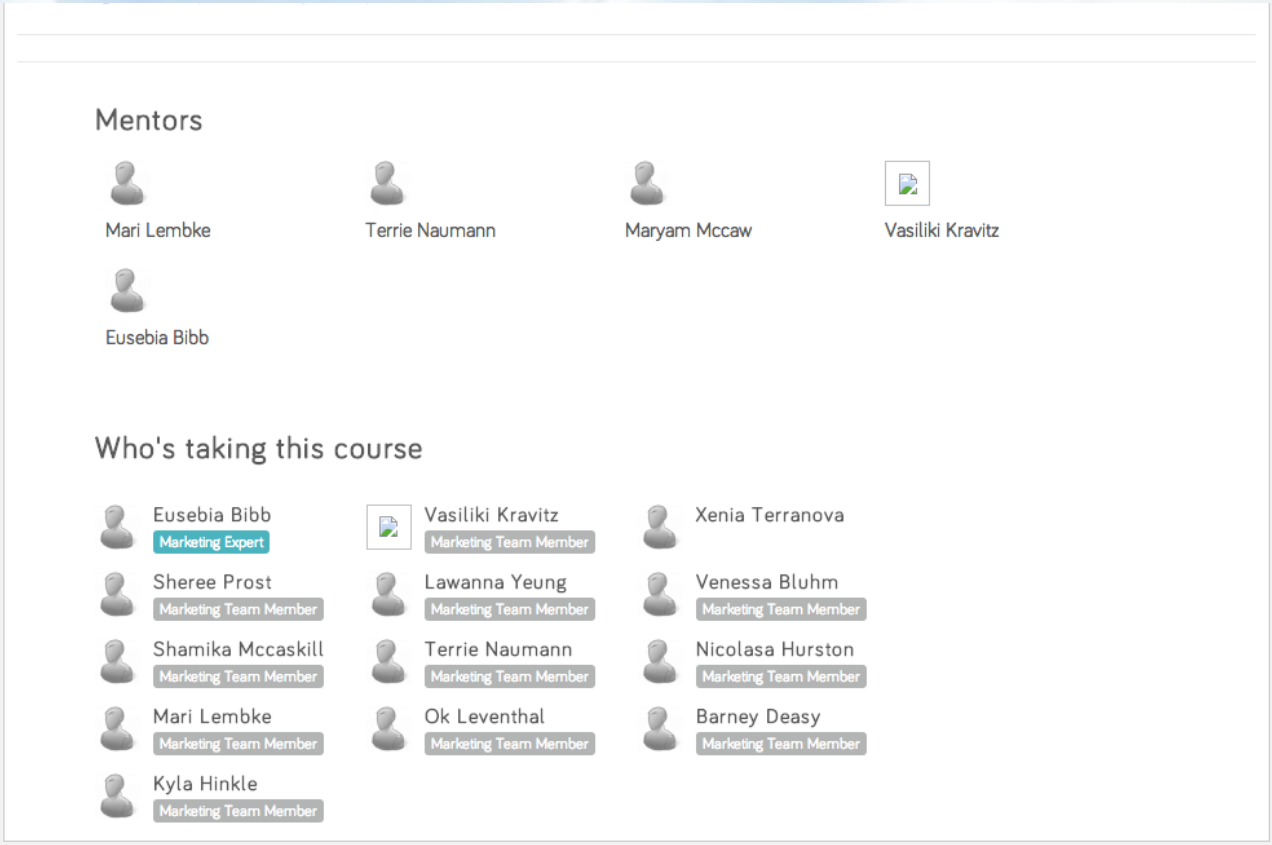
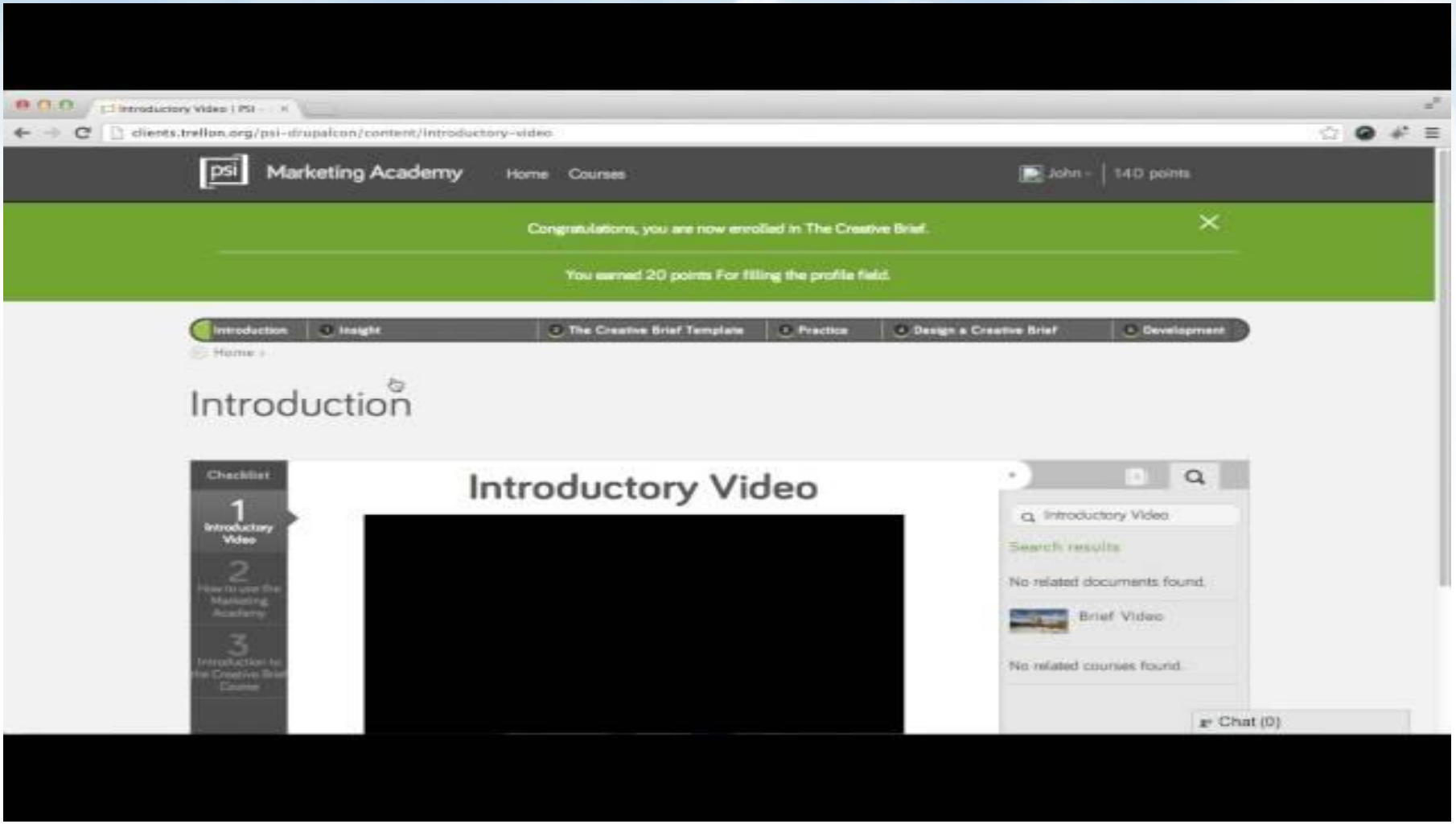


COURSES AS OG



DRUPALCHAT WITH YOUR COURSEMATES

REWARDING LEARNERS WITH ACHIEVEMENTS

- Achievements module lets you award badges and achievements (like in video games)
- Warning: Requires some custom code

REWARDING LEARNERS WITH ACHIEVEMENTS

- **hook_achievements_info()**
- return array(

```
'chat-ninja' => array(
  'title' => variable_get('psi_chat-nija', 'Ninja!')
  'description' => '...',
  'points' => 0,
  'images' => array(
    'locked' => '/url/to/image',
    'unlocked' => '/url/to/image',
```

REWARDING LEARNERS WITH ACHIEVEMENTS

- **achievements.api.php**
- $old = achievements_storage_get('chat-ninja', $user->uid);
- achievements_storage_set('chat-ninja', $new_msg_count, $user->uid);
- achievements_unlocked('chat-ninja', $user->uid);
- achievements_locked('chat-ninja', $user->uid);

REWARDING LEARNERS WITH ACHIEVEMENTS

Pilot Participant

You registered on the pilot version.

Audience Insight Skill - Level 1

Audience Insight Skill - Level 1

Develop a Creative Brief Skill - Level 1

Develop a Creative Brief Skill - Level 1

Expert Contributor

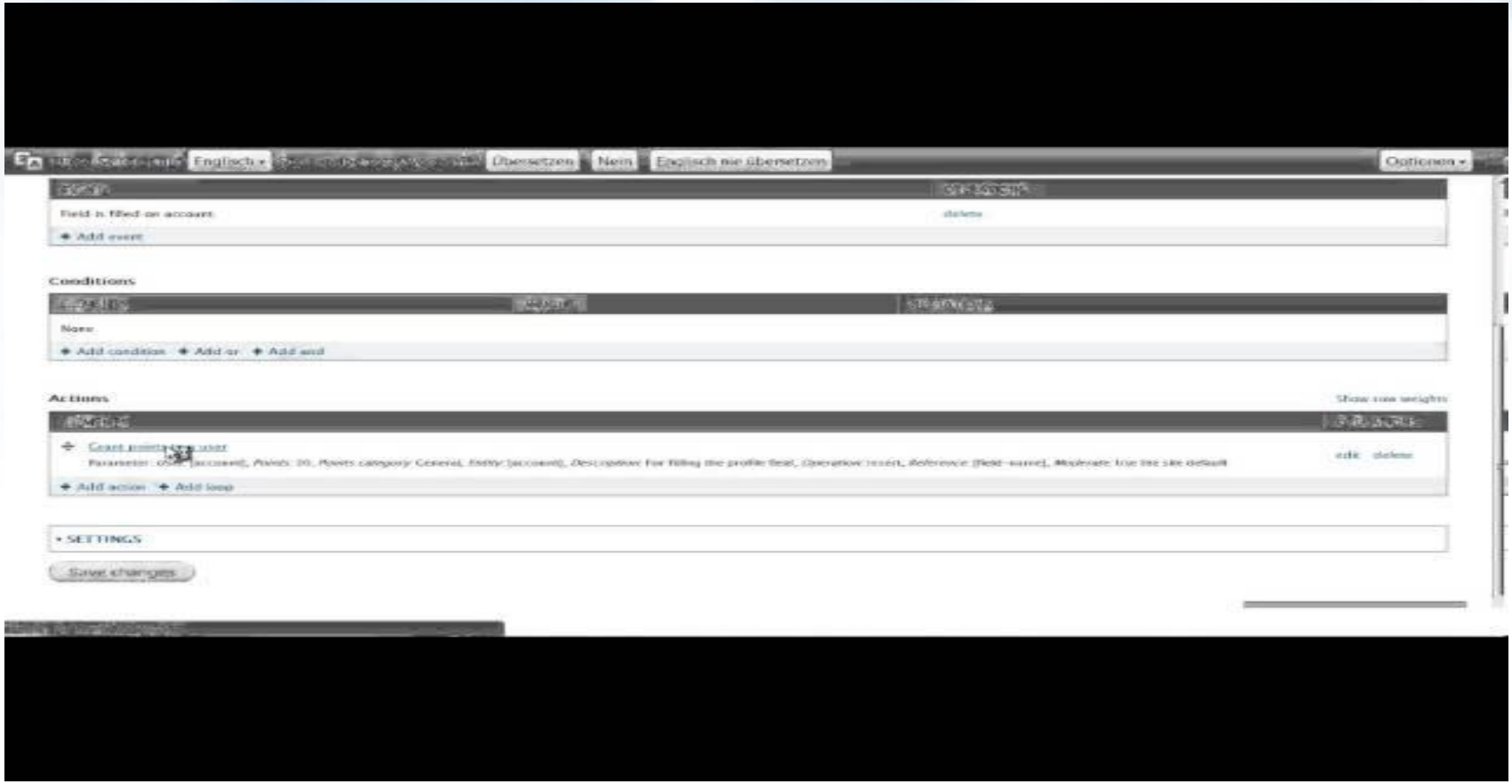
For contributing.

Chat Ninja

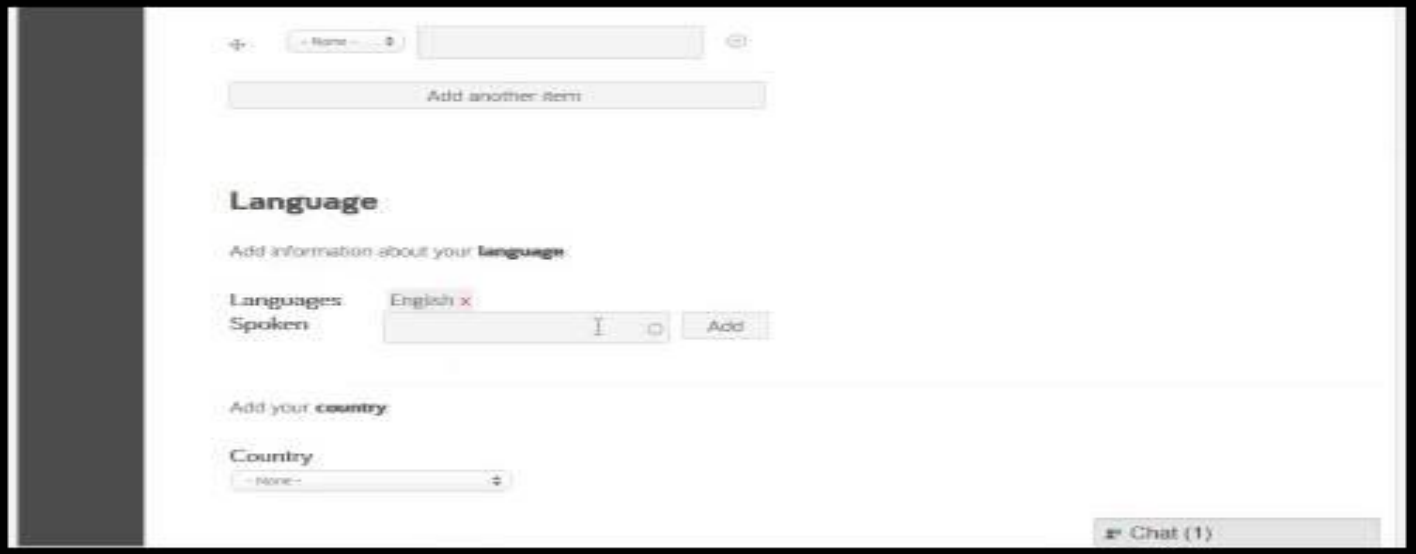
You are always there, behind a smoke curtain, paying attention to every message in the chatroom.

REWARDING LEARNERS WITH ACHIEVEMENTS ...AND POINTS

REWARDING LEARNERS WITH POINTS



REWARDING LEARNERS WITH POINTS



COLLABORATIVE BRIEFS

- Students work together on 'homework'
- Students work with teachers

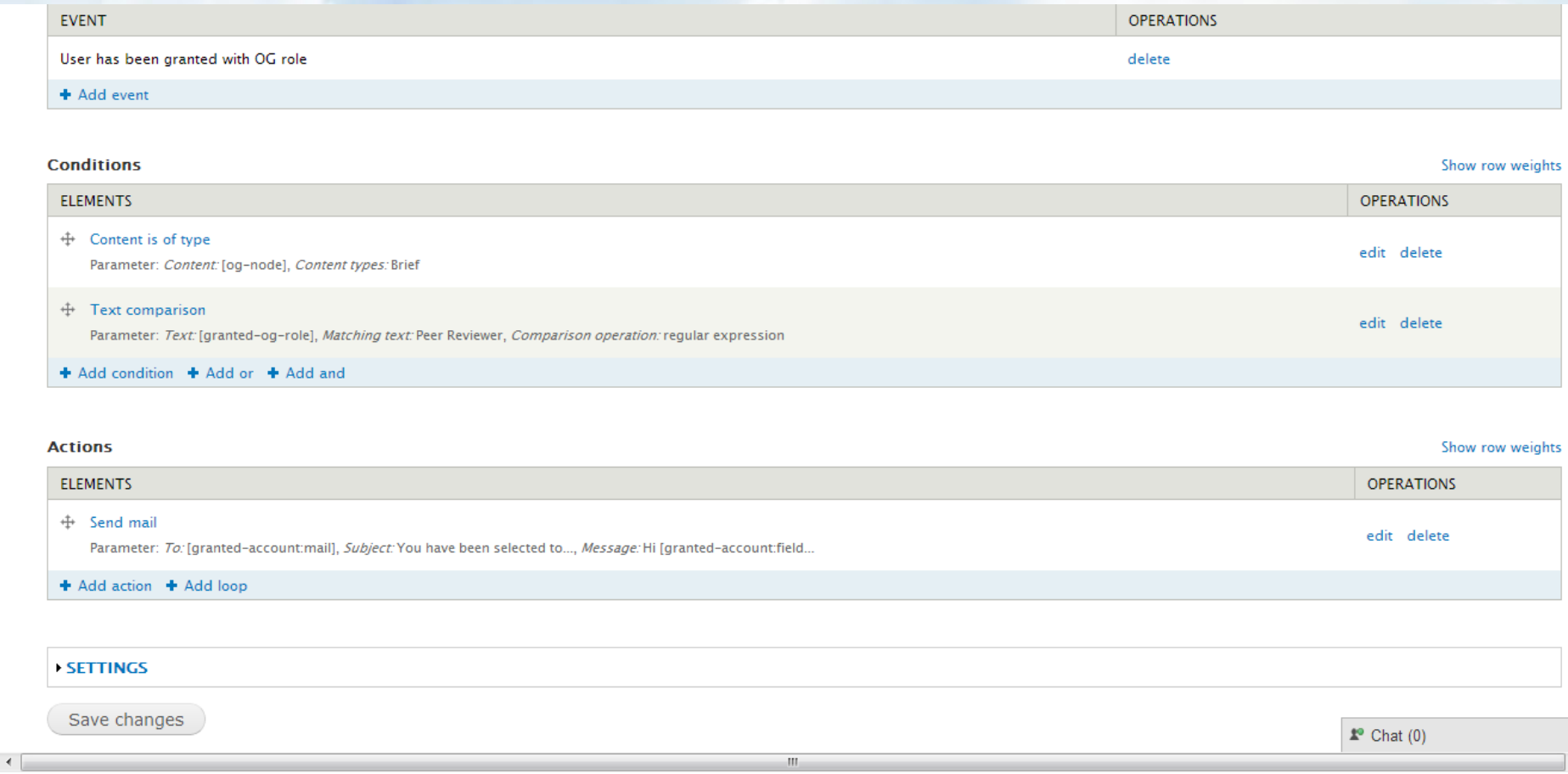
PEER REVIEW

- Each brief is an Organic Group
- Author shares a first draft with a group of peer reviewers
- Reviewers add feedback

PEER REVIEW

Marketing Academy
Hit it! Fill in your template
shared with:
Your Creative Brief – Template

PEER REVIEW



EVENT	OPERATIONS
User has been granted with OG role	delete
+ Add event	

Conditions Show row weights

ELEMENTS	OPERATIONS
Content is of type Parameter: *Content:* [og-node], *Content types:* Brief	edit delete
Text comparison Parameter: *Text:* [granted-og-role], *Matching text:* Peer Reviewer, *Comparison operation:* regular expression	edit delete
+ Add condition + Add or + Add and	

Actions Show row weights

ELEMENTS	OPERATIONS
Send mail Parameter: *To:* [granted-account:mail], *Subject:* You have been selected to..., *Message:* Hi [granted-account:field...	edit delete
+ Add action + Add loop	

▸ SETTINGS

Save changes

Chat (0)

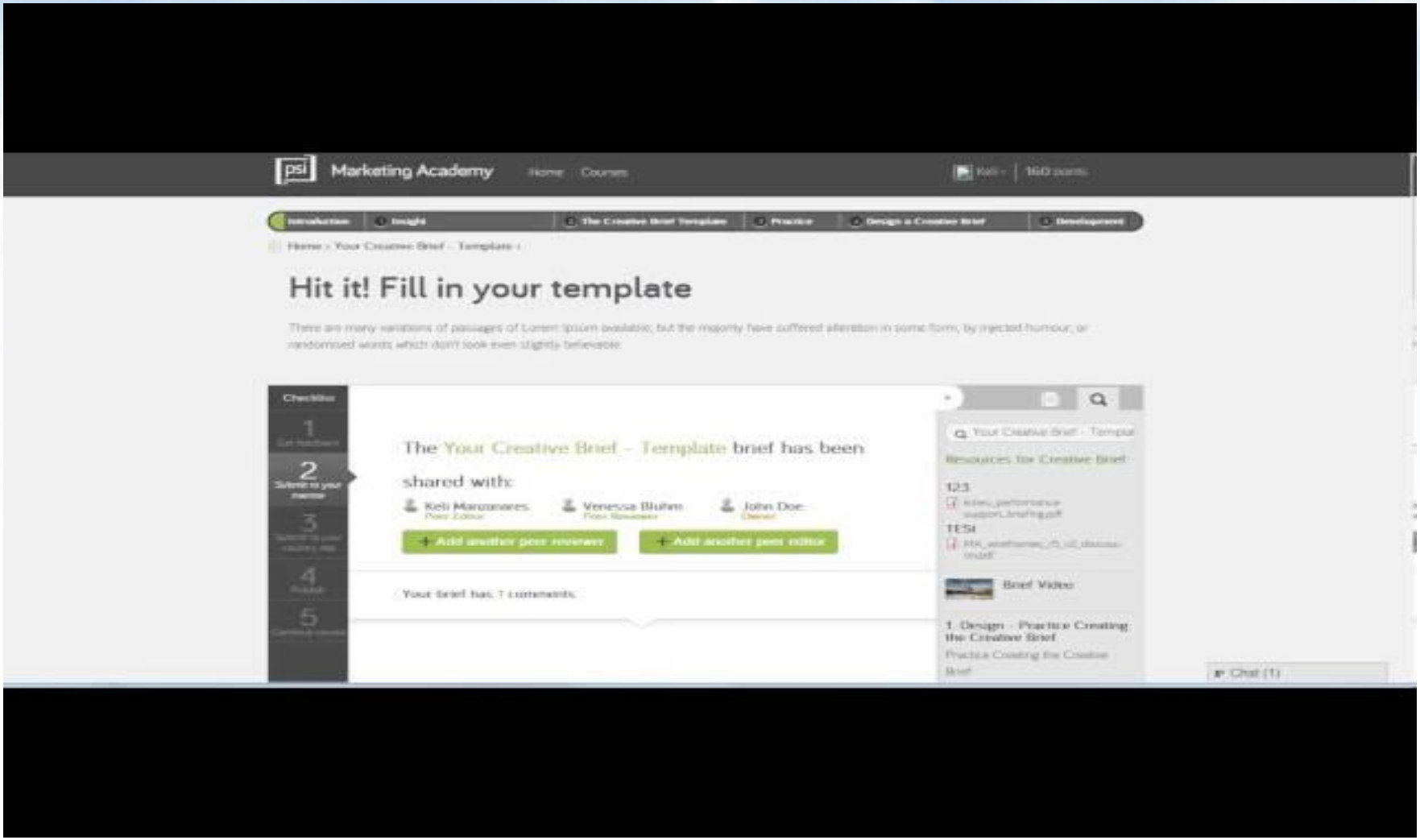
PEER REVIEW

NOT COLLABORATIVE ENOUGH?

PEER EDITORS

- OG Role that allows specified collaborators to work simultaneously on a draft

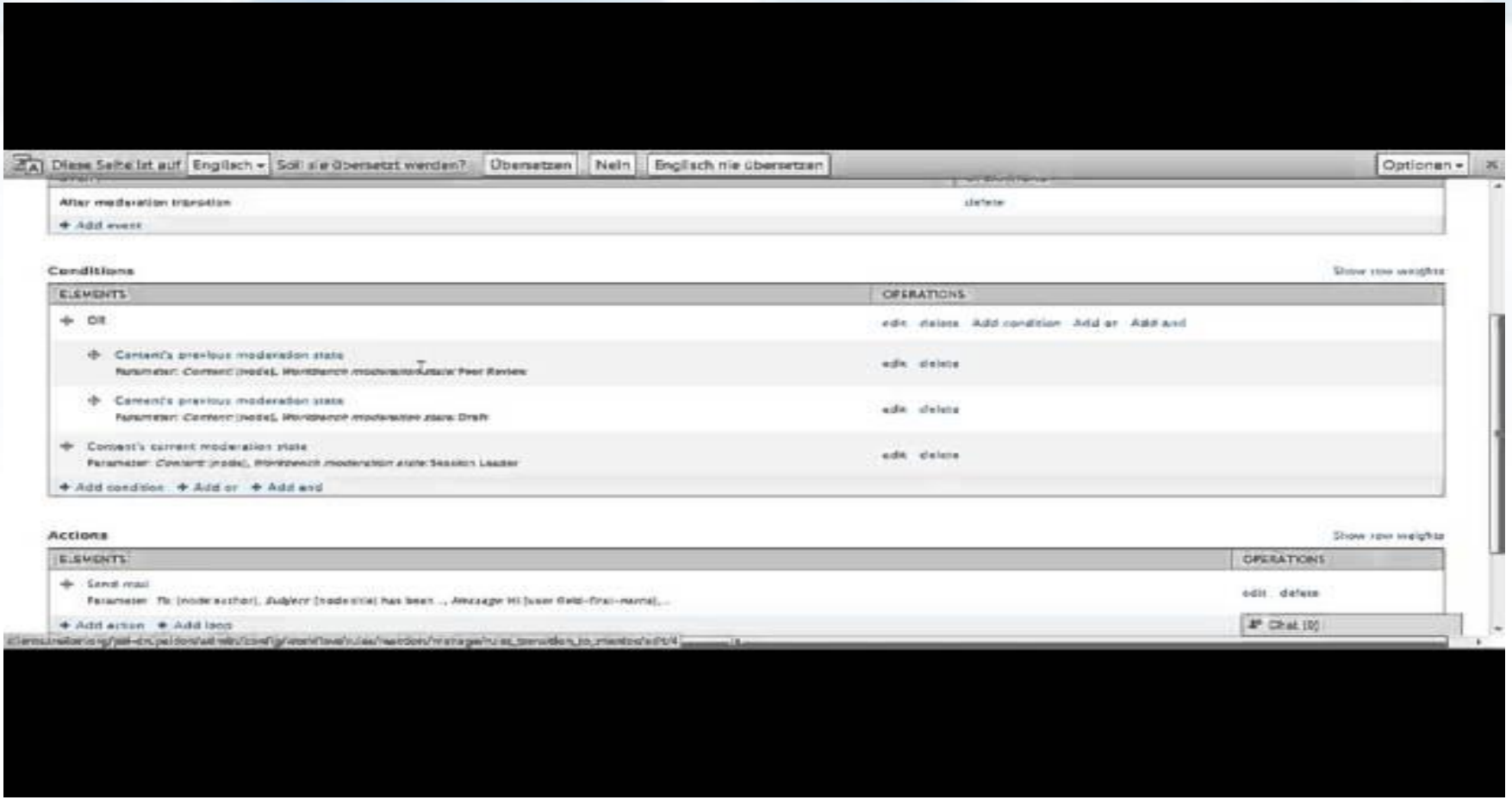
PEER EDITORS



MENTOR FEEDBACK AND BRIEF APPROVAL

- After peer review, student has opportunity for mentor feedback prior to final approval
- Workbench Moderation does the heavy lifting

MENTOR FEEDBACK AND BRIEF APPROVAL



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QUESTIONS? BE IN TOUCH!

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What did you think?

Evaluate this session at:
portland2013.drupal.org/schedule.

Thank you!