BRIDGING THE GAP
Successful Collaboration with External Development Teams

Kevin Kochanski
Client Liaison, Notch8
kevin@notch8.com
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I am Client Liaison at Notch8
1 year getting to know the Samvera Community.
You can find me at kevin@notch8.com
NOTCH8

- Full stack web consultancy in our 12th year, specializing in Ruby on Rails applications.
- 14 developers in San Diego, Utah, and the United Kingdom
NOTCH8 AND THE SAMVERA COMMUNITY

- Four years of engagement with the Samvera Community
- Rutgers, Indiana U, ATLA, OHSU, WUSTL
- Hyku pilot projects include DORIS and PALNI/PALCI
WHAT ARE THE CIRCUMSTANCES?

Internal

◎ Organization has their own team of developers to some extent
◎ Working on a core project (Samvera or otherwise)

External

◎ Resources outside the organization are brought in
◎ Supplement an existing internal team
◎ Help work through backlog, or provide expertise
WHY BRING IN AN OUTSIDE DEVELOPER WHEN YOU HAVE YOUR OWN TEAM?

- Unavailable internal resources
- Specific technical expertise required
- Alternative to institutional path
- Started a project and reached a blocker
  - First two reasons above
  - Schedule pressures
BENEFITS
BENEFITS: SKILLS

- Access to different backgrounds and skills
- Outside perspective: forest vs. trees
- Add breadth to the narrow/deep model
- Bring knowledge and features from other projects
- Context switching keeps a developer sharp
BENEFITS:
EFFICIENCY & OPPORTUNITY

◎ Increase velocity without hiring staff
◎ Shorten the learning curve
◎ Developers have learned from previous mistakes
◎ Introduce new tools and methodologies
◎ Freedom from the institutional structure
◎ Outside voice might find it easier to speak up
BENEFITS: SAMVERA

- Exposure to a variety of use cases
- Immediate knowledge of opportunities, but also pitfalls and limitations
- Identify patterns in projects and opportunities for collaboration
- Crystal ball
- Introduce new developers to the community
CHALLENGES
CHALLENGES: OUTSIDER

◎ Less insight to project and end user
◎ May offer solutions that don’t fit
◎ Sometimes relegated to busywork
◎ Different rhythm on each project
◎ Adjust to new management and define boundaries
◎ Adapt to new guidelines and coding styles
CHALLENGES: LOGISTICS

◎ Time management
◎ Time differences and scheduling
◎ Hard to feel equal and integrated
◎ Communication can be inconsistent
◎ New tools to adopt
CONSIDERATIONS FOR SUCCESS
CONSIDERATIONS FOR SUCCESS: COMMUNICATION

◎ Onsite and face to face
◎ Make roles clear
◎ Quick communication
◎ Good established tools
◎ Acknowledge and plan carefully for time and schedule conflicts
<table>
<thead>
<tr>
<th>CONSIDERATIONS FOR SUCCESS: TEAMBUILDING</th>
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<tbody>
<tr>
<td>○ Teams shouldn’t work in bubbles</td>
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<td>○ Integrate to the culture and “team” vibe</td>
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<td>○ Have external developers participate in standups and planning meetings</td>
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<td>○ Share successes</td>
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CONSIDERATIONS FOR SUCCESS: MAXIMIZE POTENTIAL

◎ Define rules and boundaries upfront
◎ Establish clear expectations
◎ If possible, use external developers for core work, not just a backlog
◎ Encourage mentorship across teams in both directions
◎ Take advantage of their expertise!
CASE STUDIES
PROJECT 1: INDIANA UNIVERSITY

Requirements:
- ESS Images into Hyrax
- Assistance with backlog
- Key feature: flexible metadata

Benefits:
- Originally brought on Notch8 to assist with a backlog of tickets.
- Able to make progress on a substantial feature.
- Immediate access to folks with specialized knowledge.
- Hit the ground running - HUGE value

Challenges:
- Not sure what’s OK in a new team; ie, adding a new gem
- Getting everyone on the same systems
- Distance, time zones, coordinating meetings
PROJECT 2

Requirements:
⊙ Project Management for an internal developer team
⊙ Introduce tools and methods (kanban board, slack, a roadmap)

Value:
Senior Samvera developer is joining some meetings for additional technical guidance.

Project needs an importer and may benefit from work being done on other projects.

Because no one on the team reported to anyone, they avoided conflict which was a cost to productivity.

Put tools in place to facilitate communication and organization.

Helped prioritize tickets.
ADVICE FROM PROJECT PARTNERS

◎ Establishing clear, concrete goals and open communication is very important
◎ Maintaining a friendly, non-toxic work environment across teams is key
◎ Plan specific time for wrap-up and handoff when engagement ends
◎ Keep channels of communication open after the engagement
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Any questions?
Kevin Kochanski
kevin@notch8.com
www.linkedin.com/in/kevinkochanski