Focusing our research vision

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Lost? Check #announcements

If you've been gone, always start there.
<rewind>
Milestone 4: Write a paper intro

• We’ve synthesized some of the most popular ideas for each area. Grab at least one area, and an idea (not necessarily yours), and develop it further into a concrete research proposal!
Outline of a systems intro

• What’s the problem you’re solving?
  • Specific problem! Not just “crowdsourcing”. More like how trust and power are broken.

• Related work
  • What else have people tried, and why haven’t they worked?

• What’s the high-level insight?
  • This is the general idea, and what other platforms would want to replicate

• What’s the system?
  • How might this idea look or work as a running system?
Outline of a science intro

• What’s the phenomenon you’re interested in?
  • Specific phenomenon! Not just “crowdsourcing”. More like what makes teams of workers effective.

• The Puzzle
  • What observation can’t we account for yet?

• The experimental design
  • Who are you recruiting? What are the conditions? What are you measuring? What statistical procedure will you use?

• The result
  • What (do you imagine) would happen?
Examples

- Guilds
- Authoring effective tasks
- Task feed ranking
Today

• Focusing our research vision based on Milestone 4
• Milestone 5
• Design test flight
Research directions
Internal conference deadlines

Ten days before the full deadline
Research foci
Themes

- Task authorship
- Task ranking
- Open gov
Task Authorship

- Experiment on task quality and price (e.g. non-experts do a task and then experts revise it is cheaper than if only experts do a task) ~@ahmednasser

- [Experiment] Release task to specific domain of workers at lower price. If task is not accomplished in time frame, increase price of task OR open task to larger domain ~@beingcooper

- [Experiment] Allow workers and requesters to provide feedback to each other via surveys ~@dcthompson
Task Authorship (cont.)

- [Experiment] Certification tests to define proficiency of user (intermediate, expert); Sentiment analysis of worker feedback on tasks; gold test ~@TeamUXCrowd

- [Experiment] Examine how task quality is influenced by requester experience. Examine how novice and experienced participants respond to poor tasks ~@Team BPHC

- [Experiment] Test effectiveness of adding categorical tags and time frame estimations to tasks ~@presrini
Synthesis

- Experiment: how much variation is there, really, in task authorship?
- Secondarily, what kinds of interventions can help?
Task Ranking

- [System] Categorize tasks according to skills, task difficulty and match workers to tasks ~Team Bits, ~@namitjuneja

- [System] Timing. Post tasks by patterns of workers & requesters ~@sarahmasud

- [System] Modify Boomerang to account for worker’s interests, skills, and tasks recently performed ~@vriinda1994, @witty123
- ^above^ + requesters can see top ranked workers in a specific category and vice versa ~@dineshd, dhankie @dnayak, @kanwar_arora
Task Ranking (cont.)

- [Experiment] New pricing model: Requesters set base price, then depending on other factors such as experience, rejection rate, geography, a worker can earn higher wages ~@dnayak, @kanwar_arora

- [Experiment + System] Workers assess each other’s contributions before it is submitted to requesters ~@Team1

- [Experiment] Determine if accounting for worker interest improves task result quality ~@vaastav
@parsis @sophiesong @hizai
Synthesis

- Interactive task feed — what would it look like?
- What data would feed it? Algorithm or ML?
Open Gov

- [Experiment] Group up workers working for the same requester and allow them to interact with one another so they can resolve issues without the requester. ~@edotrajan

- [Experiment] Open governance system with Worker Group and Requester Group, each focusing on the worker and requester needs, respectively ~@yashovardhan

- [Experiment] Leadership board consist of selecting workers, requestors and Daemo platform engineers. ~@dilrukshi
Open Gov (cont.)

• [System] Peer evaluation, workers can evaluate each other’s work & give feedback since requesters cannot scale help ~@hamdur:rahman

• [Experiment] Worker Union to avoid unfair payment and balance the power between requesters and workers ~@Dubs

• [Experiment] System clearinghouse: payment is handled through intermediary ~@attinmittra

• A/B test different organizational structures (e.g. guilds) ~@Trygve
Synthesis

- Refine the guild structure to something testable by CSCW
Design Test Flight: Messenger Designs
Collapsible Sidebar Design

Task #87 (WinterMilestone IV: We Are Daemo)

Would you like to use this playground for delivering milestones?

- Yay!
- Nay.
- Maybe for just one milestone and then let's see how it goes.


@raymondsums
Chat box Design

Team Sneaky Little Hobbitses
Modal Window Design
Inbox Notification Design

<table>
<thead>
<tr>
<th>Task Feed</th>
<th>Price</th>
<th>Description</th>
<th>Owner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compare these pictures</td>
<td>$2.00</td>
<td>-</td>
<td>dilrukshi.gamage</td>
</tr>
<tr>
<td>Project with two tasks</td>
<td>$2.00</td>
<td>-</td>
<td>handurahman</td>
</tr>
<tr>
<td>Why did you join Daemo?</td>
<td>$1.00</td>
<td>-</td>
<td>angela.richmand fuller</td>
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<tr>
<td>Million dollar question</td>
<td>$0.01</td>
<td>-</td>
<td>diane.robinson</td>
</tr>
<tr>
<td>Checkbox</td>
<td>$1.00</td>
<td>-</td>
<td>ag</td>
</tr>
</tbody>
</table>

Worker to log later and see two messages for the cool msg

@dilrukshi
Research engineering