

Crowdworker Platform

V1 Essential:

- Image with highlighted region
 - Same aspect ratio
 - Low transparency for background, but still visible for context
- Text question together with image
 - Color coding to indicate a change of question+image pair
- Answer fields
 - Yes/No: radio buttons
 - Count: number field
 - Text box always available for comments
 - “Can’t Tell” checkbox
 - When checked, text box is required for additional explanations
 - Flag sensor if multiple (5+) images have been labeled “Can’t Tell”
- View progress
 - # of hours
 - # of questions answered in last hour, last four hours
 - Hourly rate, latency
- Instructions/Examples
 - Text instructions and example photos of correct answers (Yes, No, Can’t Tell)
 - Click “More” to see full-screen instructions, including general ones
- Undo mechanics
 - Previous labeled image on top left corner

V1 Important:

- Group images of same sensor/camera together to decrease cognitive load of crowd worker
- Use hashing to automatically select distinct examples
- Ask crowd for confirmation along the lines of “are you sure?”:
 - If the answer changed for a sensor
 - If (numerical) answer is more than 2 or 3 standard deviations from mean answer

V2 Nice-to-have:

- Gamification (sound effects, incentives, etc.)

Manager Platform

V1 Essential:

- Overall stats
 - # questions answered in last hour, last four hours, today, this week, etc.
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- Individual stats: table-like view of all workers under a manager
 - Info regarding # questions answered today, daily average, average/hour, etc.
 - Clicking on that worker in the table will bring the manager to the worker's detailed statistics page
- Detailed stats page
 - Stats of the worker as above
 - Questions/Labels provided, for quick scanning
 - Filters to sort by time, by sensor, or "Can't Tell"
- Trends for sensors
 - Three categories - yes, no, and unsure
 - Show thumbnail of image with basic stats next to it
 - For unsure images, manager can edit the question, add examples/instructions, or report the low confidence to us

V2 Nice-to-have:

- Verify work by labelling images that have already been labelled
 - Similar interface that crowdworkers see