User Needs/Requirements: Response Technologies

The use of Response Technologies in the classroom seems to be expanding, not just in number of users, but in the range of use. Originally, using RT to enhance student engagement was almost their sole purpose; now, however, there is a growing interest in drawing analytics from them and in using them for various kinds of assessment. Both application and device-based versions are in use; each has its own advantages: for applications, ease of delivery and cost; for devices, the ability to lock out other distractions.

Breadth of potential need: seems to be less of a need in seminar classes than in larger lecture courses (60-100 students).

The three core areas of need are:

- Ease of use and access (UI/UX)
- Rich report options
- Extensive analytics

*Andrew Brackett (NYU IT) - is taking the lead on making sure that the chosen tool reflects some analytic-specific needs (Added by AL on 03/05/18):

Immediate Required Feature

- 3rd party accessible API that connects to student activity data tables (metadata/usage/grades/actions)
  - API supporting documents
  - Student specific data
  - Content specific data
- Off-site data storage & retention policy (access, support resources)

Eventual Required Feature

- University-wide service account possible
- SSO available (LTI and full integration)

Feature needs: details

Immediate need

- Access regardless of internet connection
- Ease/dependability of access to response technology platform (whether device or app)
- Reasonable cost (including Low maintenance/upkeep costs)
- Connection to individual student ID automatically (via pull from roster)
- Options for response: text as well as radio button response
- Mathematical notation as an option for questions and responses
- Option for anonymous response toggle by Professor
- Use for in-class assessment (quizzes)
- Inclusion of images, graphs, etc, in the question and response options
- Immediate record and display of response (basic graph formats)
- Option for response just visible to instructor
- Populate from roster (SIS or Classes)
- ADA accessibility
- Capture attendance (Added by AL on 03/05/18)

Eventual need

- Feed to gradebook
- Ability to launch survey bar without interrupting flow of presentation platform
- Save response data and compare across classes and semesters (at instructor level; program interest might be comparison to non-response course, but currently no program-wide analytic need)
- Option for student access to questions/answers (on permanent basis)
- Immediate record and display of response (richer/more sophisticated forms of visualization)
- Ability to include numerical ranges in responses (ex. #s between 20-25 are correct)

Nice to have

- Direct communication to professor
- Shareable question sets across courses/instructors
- Option for students to respond with images, video, etc.