

Quick Check @ IU

Evaluation Report of the Pilot Implemented in Fall 2017

Serdar Abaci, PhD – Indiana University

November, 2017

Prepared by University Information Technology Services (UITS)



INDIANA UNIVERSITY

UNIVERSITY INFORMATION TECHNOLOGY SERVICES

Quick Check is a flexible quizzing tool developed at Indiana University to help instructors integrate low stakes questions more seamlessly with course content. Quick Check integrates with Canvas and passes grades to the Canvas Gradebook. Question types include multiple choice, matching, multiple dropdowns, text match, and number match. Quick Check was added to Next.IU pilots in fall 2016.

In fall 2017, an online survey was sent to instructor and student users of Quick Check to evaluate its quality and utility and to share their experiences with Quick Check in a teaching and learning context.

Key Faculty Findings (N = 24; Response Rate = 35%)

- Fourteen faculty were teaching courses in online settings while other 10 were teaching face-to-face or blended courses. Most of the faculty (87%) felt very or extremely comfortable using technology.
- Faculty reported that they used Quick Check mainly to allow students assess their understanding of the course materials in the form of quick questions, often not graded but accompanied by immediate feedback. Course material may be presented in readings, lecture videos or module notes in Canvas; Quick Check reviews were usually embedded in the Canvas modules after the presentation of the content.
- When asked to rate their overall satisfaction with Quick Check on a 4-point scale (1 – *Strongly Disagree*, 4 – *Strongly Agree*), most of the faculty agreed that:
 - It was easy to use for them and their students (92%)
 - It was useful for their teaching (83%)
 - They would recommend others to use it (84%)
 - They would use it in the future courses (80%)
- A majority of the faculty respondents were positive about Quick Check's impact on their teaching in that they believed using Quick Check:
 - Enabled them to do what they wanted for their course (85%)
 - Has been beneficial to their students' overall learning (84%)
 - Increased their effectiveness as an instructor (79%)
 - Increased student engagement in their course (76%)
 - Allowed them to teach in a new way that was not possible with other available technology (75%)
 - Increased their efficiency as an instructor (54%)
- When the faculty were asked to rate the usefulness of Quick Check features, majority of them found the following features useful (% combines *moderately useful* and *very useful*):
 - Participation tracking (83%)
 - Canvas/LMS integration (81%)
 - Formative assessment for individual students (79%)
 - Analytics (76%)
 - Formative assessment for class as a whole (71%)

- When asked what they liked most about Quick Check, faculty comments revealed three major themes: ease of use; better visual layout than Canvas quizzes; and the ability to embed Quick Check into content page in Canvas. Two other comments were voiced by more than one faculty: variety of question types and ability to take the assessment as many times as wanted/needed.
- In terms of the least liked aspects of Quick Check, seven out of 19 comments mentioned the lack of ability to setup/customize Quick Check. The faculty wanted to adjust or limit the number of time a student can take the quiz or how the points are earned; one faculty asked for allowing late submission. Two faculty reported having system issues intermittently. The faculty also noted that loading pictures were difficult.
- Lastly, the faculty were asked if Quick Check were lacking any features that they would expect from a formative assessment tool. In addition to being able to control the number of times a quiz is taken, the comments included adding student view for instructor accounts; ability to adjust the font formatting in feedback text; auto saving feature; ability to add audio files as answer choices; and ability to share question sets with other instructors.

Key Student Findings (N = 24; Response Rate = 4%)

- All but two students were undergraduates, ranging between freshman and senior in their class status. A majority of the student respondents (79%) were at least somewhat comfortable with technology.
- Three fourth of the respondents (75%) reported using Quick Check five or more times in the semester. The remaining 25% used it less than five times.
- Twenty-two of 24 students (88%) who rated their overall experience found Quick Check easy to use. Similarly, 80% of the student respondents thought that it was useful for their learning. Most of the students (84%) stated that they did enjoy using Quick Check in their course and they would recommend it for other classes.
- When asked to rate the statements regarding the perceived impact of Quick Check on their learning on a 4-point scale (1 – *Strongly Disagree*, 4- *Strongly Agree*), 82% of the respondents agreed that using Quick Check was beneficial to their overall learning in the course. Overall, majority of the respondents agreed that using Quick Check:
 - Enhanced their understanding of the course material (79%)
 - Increased their engagement in the course (74%)
 - Helped them to be in control of their own learning (73%),
 - Helped them to complete course assignments (69%),
 - Helped them to study for exams/tests (66%).
- All of the features of Quick Check were rated very highly on a 4-point usefulness scale (1 – *Not at all useful*, 4- *Very useful*) by those who reported using them. In particular, students found the following features useful (% combines *moderately useful* and *very useful*):
 - Ability to take the quizzes multiple times (95%)
 - Ability to receive instant feedback (92%)

- Having the quiz questions on the same page as the material (88%)
- Ability to review quizzes after due date (80%)
- Canvas/LMS gradebook integration (77%)
- Fifteen students commented when asked what they liked most about Quick Check. Ability to take the quizzes multiple times (“until they got them all right”) was the most favorite aspect of Quick Check. Other liked features included instant grading/feedback and its ease of use.
- Twelve students commented when asked what they liked least about Quick Check. The foremost issue was that students have to re-take the entire quiz if they got one question wrong and want to correct it to receive the full points. They also noted that Quick Check does not allow for partial grading or tolerate typos/extra space in text entry responses. Other students mentioned wrong formatting or lacking feedback on wrong answers, which point to potential user errors/choices.