Software Requirements Specification

Instructor Evaluation Delivery and Management Platform

Revision 3

February 13, 2016

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# **Purpose**

This document provides a high level overview of the solution for managing and delivering course evaluations for the Education and Skills Training program (ESTR). It is intended to describe the intended functionality desired by the client as well as an overview of the intended system architecture.

## Revision History

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| --- | --- | --- | --- |
| **Revision #** | **Date** | **Description** | **Revision by** |
| 1 | 12/8/2015 | First draft | SL |
| 2 | 1/21/16 | Update following Jan 20 meeting | SL |
| 3 | 2/13/16 | Update scale | SL |

# **Introduction**

The system is intended administer instructor evaluations at the conclusion of courses, using Android tablets. The questionnaires will be customized by the instructor for a course through a web interface, where she/he can create evaluations for their course with a customizable set of questions, and later retrieve data summarizing student responses.

Since ESTR serves students for which it is important, usability is a key priority for the mobile application. Questions will be read aloud to students (audio will be pre-recorded by an instructor), and questions which require quantitative responses will be answered on a four or five-point scale using faces. Open-ended questions will also be available, which allow students to type their responses.

The deliverable for the current project is to produce an application accessible from Nexus 9 tablets in the classroom and web interface to allow instructors to customize, deliver and review course evaluations, with the goal of expanding the platform to offer questionnaires and assessments to other departments or disciplines.

# **Functional Requirements**

#### User Stories

* As a **student,** I would like to complete the course evaluation on the tablet so I can provide feedback about the course and instructor.
* As a **student,** I would like to be able to type my name before completing an evaluation if the evaluation is not an anonymous one.
* As a **student,** I would like to have the option of tapping a button to have a question read aloud to me so that it is easier for me to understand.
* As a **student,** I would like to answer questions as a set of four faces ranging from sad faces to happy faces so that I can provide feedback easily.
* As a **student,** I would like to answer questions asking me for a response by typing my comments.
* As an **instructor**, I would like to create an evaluation for my course so that it can be delivered to students.
* As an **instructor**, when I create an evaluation I would like to decide whether a four or point Likert scale of happy faces will be used, or simply a text box.
* As an **instructor**, when I create an evaluation I would like to determine whether responses should be anonymous or have a name attached.
* As an **instructor,** I would like to add, remove and modify questions in my evaluation where necessary before it is published.
* As an **instructor,** I would like to choose which evaluations are available to students and protect them from abuse.
* As an **instructor,** I would like to choose the type of question to be added when adding a question, whether happy-face Likert scale, or descriptive answer.
* As an **instructor**, when adding each question, I would like to upload a pre-recorded mp3 file to be played when the question is presented to students.
* As an **instructor**, I would like to see results for each evaluation with a graph for each question indicating the distribution of responses over each point on the scale, and generate a downloadable PDF report of this data.
* As an **instructor**, I would like see the qualitative responses to descriptive questions and generate a downloadable PDF report of this data.
* As an **instructor,** I would like to specify an end date for my course, before which response data will not be accessible. Once this date has passed, this report should be sent to email addresses specified.

#### Use Cases



**Non-Functional Requirements**

* The surveys must be accessible from the classroom using a Nexus 9 tablet.
* The application shall function with the device in landscape orientation only.
* During a survey, questions shall be presented to students one at a time. Students must select their response and press a button to confirm their selection before proceeding to the next question.
* During a survey, Likert scale questions should be displayed with happy faces arranged horizontally.
* The server should not allow evaluation response data to be available to parties other than those specified by the instructor who has created an evaluation.

**Physical View**



# **Logical View**

#### Entity Relationship Diagram – Conceptual Model for API

