**Online Quiz/Survey Application v-1.0**

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# **Introduction**

The purpose of this document is to present a detailed description of the Online Quiz application. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.

# Objective

Create an online quiz/survey creator. This application can be easily integrated with other platforms using its api features.

# Functional requirements

1. Quiz must support following question types
   1. Multiple choice (Multiple response) – with multiple answer option
   2. Multiple choice – with single answer option
   3. true/false
   4. image choice – refer typeform picture choice
   5. free text – refer typeform short text/long text.
2. Survey support the following question types.
   1. Multiple choice – with single answer option
   2. true/false
   3. image choice – refer typeform picture choice
   4. free text – refer typeform short text/long text
   5. Rating - – refer typeform rating option.
   6. scale
3. Quiz options/settings
   1. Option for making a quiz graded.(setting pass mark)
   2. Submit result at the end of quiz and show total score.—refer quiz-style1.pptx

In this case if user leave some required questions, submit/finish quiz button should prompt un attempted questions, and navigate through un attended questions .

* 1. Show result on each question attempt(by default this option will be off), finally show total score–refer quiz-style2.pptx
  2. Review option – if it is on user can review the questions and its result after completing the quiz.- by default on
  3. Retake option. If it is on, user can retake the quiz.- by default off .
  4. Hide navigation button (next - previous) - (only through mouse scroll/ left right finger gesture / left-right keyboard navigation)
  5. Option for changing quiz title, Start text, end text, success message & failed message( for graded quiz)
  6. For multi-language support, give option for editing quiz buttons labels like ‘Start Quiz’, ‘Retake’, ‘Continue’, ’Check’, option index (a,b,c,d etc) include any other labels/text shown in quiz . Any text which are not edited by quiz editor in output quiz should be loaded from a string table/collection and can be editable from quiz settings.
  7. Option for selecting output quiz color theme (text color, button color, progress bar color etc).

1. Question settings
   1. Mark a question as required.
   2. Option for randomize answers.
   3. Super size image option( If question is image choice )
   4. Option for adding image/video (you tube url) along with question.
2. Import & export quiz- for future version.
3. Survey should have the following options
4. Api features.
   1. Authenticate using api key. All api call should work only after the authentication
   2. api/create -> to create a new quiz or survey
   3. api/<quiz/survey id>/edit?uid=<>&token=<> -> to edit existing quiz or survey, for first page loading send token along with url.(will get token at the time of authentication)
   4. while calling edit quiz api , there should be an option to pass color theme of editor interface.
   5. api/<quiz/survey id>/preview
   6. api/<quiz/survey id>/attent?uid=<>&token=<>,
   7. there should be an option for passing
   8. api/<quiz/survey id>/getresult?uid=<> =>return specified user result in json format which include total score, correct answer, wrong answer details.

getresult api call without user id return report of all students.

For survey need some changes in api.

* 1. api/<quiz/survey id>/delete
  2. api/<quiz/survey id>/clear- tracking?uid=’101’ => clear the current score and allow the trainee to retake the quiz (if quiz has no retake option)

**Note**: api names can be changed with more suitable names.

After creating quiz, quiz id should be unique id like short GUID. Don’t use auto number.

# Technical requirements

Use the following technologies for development

* Nodejs with express framework.
* Mongodb
* Angular js