VBA Documentation

Type Object:

questionObj
- Object containing Strings:
    - Question
    - Question Id
    - Slide Id
    - Quiz Id
    - Time limit
    - Array of choices
    - Section Id

Module Methods (macros), listed in order of programmatic use:

Auto_Open ()
- Runs when PowerPoint is initially opened
- Sets up the question toolbar in the Add-Ins tab
- Question drop down list is initially empty until a quiz Id is selected through the 'get quiz Id' button

showForm ()
- Runs when the 'get quiz Id' button is clicked
- Opens window to enter quiz id to get available questions

Intermediate 'Forms' methods (macros):

CommandButton1_Click ()
- Runs when search button is clicked
- Sends quiz Id to **readInAllQuestions (quiz Id)**
- Closes window

CommandButton2_Click ()
- Runs when OK button is clicked
- Sends quiz Id to **readInAllQuestions (quiz Id)**
- Closes window

CommandButton3_Click ()
- Runs when Cancel button is clicked
- Closes window

readInAllQuestions (quiz Id)
- Runs when appropriate quiz Id is entered and 'Search' or 'OK' button is pressed, passes in **quiz Id**
- Uses quiz Id to read in Json file from the server
- Returns Json file that contains question objects correlated to the quiz Id

parseJson (Json file)
- Runs when appropriate quiz Id is entered and 'Search' or 'OK' button is pressed, passes in **Json file**
- Recursively parses Json file into separate questions
- Calls **parseQuestion (question)** on each question

parseQuestion (question)
- Is called from **parseJson**
- Recursively parses each question into question, quiz id, question id, answers, and time limit variables
- Calls **parseAnswers (question, answer choices)** on each question
- Creates a **questionObj** for each question
- Adds each questionObj to **questionList** array

parseAnswers (question, answer choices)
- Is called from **parseQuestion**
- Parses **question** into answers
- Answers added to an array of **answer choices**
- Returns array of **answer choices**

buildQuestionSlide ()
- Is called when a question is clicked in the drop down menu
- Adds a local function, or macro, **localVoteButton** if one does not already exist
- Dynamically creates a new slide and populates it with all question variables: question, quiz id, question id, answers, and time limit
- Creates an action button on the slide that when clicked in presentation mode, will call **sendQuestionToDevices**

sendQuesitonToDevices ()
- Is called when action button on slide is clicked
- Sends question to iOS and android devises via server and parse

- Sleeps the program for a specified amount of time before retrieving the statistics of the question results
- Calls **getStats** to retrieve results data

getStats ()
- Is called from **sendQuestionToDevices**
- Gets statistics from the server and inserts them into PowerPoint on a new slide after the question slide
- Calls **parseGraphHttp** in order to parse the http address to retrieve the statistics jpeg

parseGraphHttp ()
- Is called from **getStats**
- Parses the http address to retrieve the statistics jpeg
- Returns the http address of the graph jpeg

Dynamically created method (macro), does not appear in initial code:

localVoteButton ()
- Is called when action button on slide is clicked
- Calls **sendQuestionToDevices**