User Roles

* Admin
  + When we were added to the project in App Engine, I believe it made us Admin users
  + The only current additional functionality for Admins seems to be the View Category List page that allows a user to remove/replace a category from the rotation
  + How to make new admins?
    - Need a super admin/owner role?
    - Give them a page that allows them to choose other admins from list of users?
* User
  + Should users be able to view all questions or just the ones they have created?
  + Should users be able to see questions flagged for review?

Existing Data

* I have the data migrated off of the App Engine as best I can
* Not sure how it will be possible to handle existing users
  + We are unable to get the user’s email address
    - this is never stored in the applications datastore
    - All logins were done with gmail accounts, but we don’t have those
  + Was hoping that we could send an email to a user upon their first login, but don’t know the email address
  + Can’t just ask for a new password – anyone that attempted to login using a specific username would now basically own the account

Main Page (not logged in)

* Have option to click the down arrow to see the About info, or use the Login link on the nav bar.
  + Add a link to login in the body of the page?

Main Page (after login)

* Navigation options updated
* Arrow on main page changes to right and will take user to the quiz selection area
* Is there a better way to handle the animation?
  + Currently, it seems that the main splash and the quiz selection are on the same area and the animation is just shifting the main splash off the screen to the left
  + If you are on another page and you use the Quiz Me link in the nav bar, you briefly see the main splash while the animation occurs.

Login Page

* We will need to create our own login page that will allow users to login or to register for site
  + Use javascript to validate input before submission
  + Use POST on form submit
  + PHP call to database, supply username/hashed password
  + If found, store SESSION variable indicating user is logged in
  + Destroy this on log out.
  + See PHP with MySQL Essential Training (Lynda) for details on basic, secure login

Register page

* Username, email address, password, retype password, submit, cancel
* Store user names on page load?
  + Allow for real-time indication of if a user name is taken or not when registering?
* Email verification?

Quiz Me Page (really just a different section of main)

* Dropdowns are being loaded by javascript on the client
  + Can we do the bulk of this (initial setup) on the server/PHP instead? Categories/quizzes only change on create, so a reload of page would be required anyway
  + Would only need to update subcategory when category is selected
  + Also, with how the categories/subcategories are currently stored, the javascript has to do a lot of work.
    - Splits the string on :
    - Loop through all to discard duplicates
    - With our database setup, these steps shouldn’t be required.
  + Get category\_id, category\_name for categories – display category\_name
  + Get category\_id, quiz\_id, quiz\_name for quizzes – display quiz\_names for first (default) category
    - When user selects a category, use category\_id to link to quizzes
    - Update the quizzes dropdown with appropriate quiz\_names
* POST/GET quiz\_id, number of questions, time per question, own question flag to takeQuiz page
  + Use PHP DB call to get questions/answers/statistics/votes/etc
  + Javascript to run the actual quiz
  + Keep track of answers/votes and submit at end?
    - Or should we change it to submit between questions?
    - Currently lose all progress if navigating away before quiz finish

Leaderboard

* Sorting/filtering doesn’t seem to work very well
* Would a page reload be acceptable after setting new filter parameters?
  + Even when the current filtering does work, there is a delay while javascript does the work
  + If site gets popular, the amount of data here could get huge
  + Would need button for submitting choices
* Add default setting to limit to top 10?
  + Add option to choose how many results to show?

New Question submission

* Place the button for creating a new category above the category dropdowns for better flow?
  + Or could have the category/quiz dropdowns include values indicating “Create new category”
    - If we got that route, could use JS to show/hide category/quiz text fields when necessary
  + It kind of does this already, just in a separate popup
  + It would also allow to skip the page reload between the category creation and the question creation
    - Should be relatively easy to collect the data from the screen and send off to PHP
    - Insert category, then quiz, then question. Could have stored procedure that does all at once probably
  + Would also get rid of the ugly message box indicating the category was created
* When testing I ran into issues when adding a new category/quiz where the quiz didn’t show up for new category, but unable to reproduce.
* Also was getting errors when adding a question (12 arguments instead of 11), but then it started working again

View Your Questions

* Seems decent
* Upon deleting your question, it takes you to the question database instead of back to your questions

Review New Questions

* Link is misleading – the page shows questions flagged for review, not new questions
* Brings up the question – should new questions be reviewed before being put into rotation?
  + If they should, I would assume the same would go for new quizzes that don’t have any questions that have passed review?

View Question Database

* Should regular users be able to view questions that they did not create?
  + Question database shows answers
  + Also allows regular users to edit/delete questions
  + Could be useful for flagging?
* Limit number pulled at first? Like with thoughts on leaderboard
  + Amount of data could get large
  + Reloading on filter changes might remove ability to actively search?
  + Add filters for category/quiz?

View Category Database

* Admin only
* Throws error when trying to remove a category sometimes
  + 'NoneType' object has no attribute 'accepted'

Profile

* We might be able to keep the graph display - google feature not part of the app engine?
* Limit the image search window to filter for image files? (this can be applied to question creation too)
* How to handle images with new database setup? (this can be applied to question creation too)
  + Size limits?
  + Where to store/how to reference?

Report Bug

* Best place for the link? The Profile dropdown seems wrong, but not sure where better or stand-alone link.
* Error when I tried to report a bug from the Profile page (could not decode JSON), but worked from leaderboard
* Should we have a bug\_report table and/or notification\_log table

Emails

* Currently seems easy to spam the email notifications (I did not see any limits on these, but I may have missed that)
  + Sends an email if a question is flagged
  + Sends an email if there is a bug report
  + Maybe have checks to keep track of the last notification?
    - Send bug reports once per day?
    - Send questions flagged for review once per week?

Scoring

* Should users be able to accumulate score from answering the same question correctly multiple times? Or should they only get credit once?
* Sometimes finishing a quiz does not update score correctly – think this will be fixed upon migration to new database.