Folder: Admin

<u>Class</u>	Requires	<u>Function</u>
Questiondetails.php	Dbutils.php	Get details of questions from the database and display them.
		This includes displaying possible answers, both correct and
		incorrect
Questionlist.php	Dbultils.php	Displays list of questions. It calls questiondetails.php to display
		data
Remove_image.php	Dbutils.php	Deletes an image from the questions_images database

Folder: Classes

<u>Class</u>	Requires	<u>Function</u>	
Dbutils.php	None	Class for setting up databa	ases
		construct	Takes in database username, password, and name arguments. Class constructor to create a new database connection object
		closeConnection	Close the mysql connection
		escapeMySqlString	Takes special characters arguments. Escapes the pecial characters used in the mySQL statement
		getDatasetWithParams	Takes sql select query, data types, and parameters arguments. Creates a dataset based on an SQL Select query and a set of parameters for the WHERE clause. This method only works with SELECT queries
		getDataset	Takes a SQL SELECT query argument. Creates a dataset on an SQL SLECT query where the WHERE clause is concatenated
		executeQuery	Takes SQL SELECT query, types, and parameters arguments. Executes an INSERT, UPDATE, DELETE query with a set of parameters for the WHERE clause
		getRecordsetAsJson	Takes SQL Select query, types, and parameters arguments. Creates a JSON object form data returned by an SQL Select query and a set of parameters for the WHERE clause. This only works with SELECT queries

HtmlUtilities	None	Is any of this actually used?		
Image.php	None	Class for image object		
		construct Constructs image object		
Levelsecurity.php	getaccess.php	Checks to make sure the user isn't jumping levels		
Question.php	Image.php	Class for question object		
		construct	Contruc	tor function for question
			object. S	Splits depending whether or
			not user	is in practice mode.
		logUsedQuestion		a question that has been
				o used_question_log
			databas	
		loadDistractors		tractor images for the
			question	
		toJSON	Convert	s image List to Json
0 1 1 1 1	NI.		-1-1-	
Quiz.php (actually	None	Class for Quiz Question		Falson databases accounts
for Quiz Question)		construct		Takes database username,
				password, and name arguments. Constructor to
				create a new database
				connection object
		closeConnection()		Close SQL database
		escapeMYSqlString		connection
				Takes special character
				arguments. Creates an
				escape string for the sql
			(database
		getDatasetWithParams		Takes SQL Select query,
				types, and parameters
				arguments. Creates a
				dataset based on a select
				query and a set of
				paramters for the WHERE
				clause. This method only
		getDataset		works with SELECT queries Take SQL SELECT query
		getDutuset		parameters. Creates a
				database on an SQL SELECT
				query where the WHERE
				clause is concatenated
		executeQuery		Takes SQL SELECT query,
		<u> </u>		types, and parameters
				arugments. Executes an
			l l	NSERT< UPDATE< DELETE
				query with a set of
			-	parameters for the WHERE
			(clause

		getRecordsetAsJson	Takes SQL SELECT query,
			types, and parameters
			arguments. Creates a JSON
			object form data returned
			by an SQL SELECT query and
			a set of paramters for the
			WHERE clause. This method
			only works with SELECT
			queries
Quizquestion.php	None	Pretty sure this was abandoned	
security.php	None	Checks if user id in the session is blank or "invalid". Redirects	
		to authfailed.php	
stringutils.php	None	Replaces certain characters in s	trings
		cleanMySqlInsert	Takes sql String argument,
			Replaces characters that
			present potential danger for
			SQL Injections or can break
			SQL syntax

Folder: Rest

<u>Class</u>	Requires	<u>Function</u>
getaccess.php	Dbutils.php	Checks if user ID is set in the session. Set accordingly.
		Files an SQL SELECT query for everything from page
		access database where the ID matches the session ID.
getDistractors.php	Dbutils.php	Gets distractor images for questions.
		Selects question ID, diagnosis name, hint, image ID,
		image folder, and image name
		from the distractor and questions databases
		where IDs match. Randomizes them, encodes in json,
		and displays the data.
getPracticeQuestions.php	Dbutils.php	Retrieves practices questions.
		Selects question ID, image ID, category name, diagnosis
		name, hint, number of images, image folder, and image
		name.
		from categories and questions databases
		where IDs match. Loops number of times as the "limit" in
		the session
getscore.php	Dbutils.php	Sets the IDs from the session data.
		IF the user ID is "TOPFIVE", retrieves the top five score,
		encodes them into JSON and displays them.

		Otherwise, select the question ID, image ID, if there is a
		bonus, level ID, attempt ID, score received, date and
		time started, and date and time ended.
		Gets data from score database where IDs match.
		Then selects question ID, score date, score time, level ID,
		and attempt ID.
		Gets data from questioncomplete database where IDs
		match.
		Displays score and question data.
getuserlist.php	Dbutils.php	Gets ID from session.
		Select name
		from drupal_users
		where ID matches session ID.
		Sets database name, username, and password. Creates a
		new DbUtilities object from previous data, turns it into
		an array and encodes to Json
Leaderboard_ws.php	Dbutils.php	Retrieve the Leader board scores
		Selects user ID, level ID, and max level score
		From the dentalgame score log
		Where level is complete
		Group by user and level id
		Order by max level score
		Limit to 3 queries
		Encode to JSON
		Select user ID, level ID, and sum of Max Overall score
		From dental game score log
		Where the level is complete
		Group by ID
		Order by the max overall score
		Limit to 5 results
		Encode to Json
levelsummary.php	Dbutils.php	Displays the level summary, including score and answers
		Get the game attempt, level, and user IDs from the
		session data
		Select Max level attempt number
		From the score log
		Where the user and attempt ID matches

		Select the level attempt number, if the level is complete, final level score, number of questions answered, number of questions correct, and number of questions incorrect From Scorelog Where attempt, user, and level IDs match Save as score and encode in JSON Select question ID, image ID, diagnosis name, image Folder, image Name, and whether it is correct Fromanswer log, questions_images, questions, and images databases Where image, question, attempt, user, and level IDs match Save as answers Display scores and answers
Logquizanswer.php	Dbutils.php	Set user ID, question ID, choice ID, and if item is correct from session data Insert data above into quizanswerlog database
Question_ws.php	Dbutils.php	Gets question and distractor info from databases and display them If the level ID is set from the session Select question ID, diagnosis name, hint, image ID, image folder, and image name From questions and questions_levels databases Where IDs match Randomize Encode to JSon and save as questions Select question ID, diagnosis name, forQuestion ID, image ID, image folder, and image name From distractors and questions databases Where IDs match Randomize Encode to Json and save as distractors Display questions and distractors Utf8ize IF argument is an array, for each item, use recursion to call itself for each string If string, encode it into utf8

Question we shiphn	Dbutils.php	Create new question object and encode in JSON.
Question_ws_obj.php	Question.php	Question object depends on user's current level
	Question.pnp	Question object depends on user's current level
		Get game attempt and level IDs from session
		Retrieve practice categories if any
		nethere practice categories if any
		Display questions differently depending on level
Quizquestion_ws.php	Dbutils.php	Creates a QuizQuestion and QuizQuestionChoice object
		Selects question ID question stem, choice Id, choice text,
		and if item is correct
		From quizquestions and quizquestionchoices databases
		where IDs match and items are active
		Order by question ID
		Save as collection list
		Iterate through collection list and put questions in
		collection list into new array list called question list
		Also construct new questions based on data from sql
		query
Quizscorecard_ws.php	Dbutils.php	Displays user's scorecard
Quizacoi ccui u_wa.piip	Dodding.prip	Displays user a scoreculu
		Select date answered, if correct, and count
		From quizanswerlog
		Where IDs match
		Group by Date answered and if correct
		Save as collectionlist, encode in json and display
Resultstojson.php	Dbutils.php	Convert entire sql database to JSON? (Actually not sure if
		this works)
Scorecard_ws.php	Dbutils.php	Display user's scorecard (not sure how this differentiates
		from quizscorecard_ws.php)
		Select level ID, log time and date, level attempt, final
		level score, number of questions answered, number
		correct, and number incorrect
		From the scorelog
		Where user IDs match and the level is complete
		Order by log date time descending and level ID ascending Convert to json and display
Session.php	None	Set name and value session data and display
acasion.hiih	NOTIE	(not sure if this is used)
Updateaccess.php	None	Insert new access data in page access database
opaateacess.piip	140110	Depends if session data is already set
Updateanswerlog.php	None	Update the answer log database
opuateansweing.hiih	NOTIC	opaute the answer log database

		Retrieve session data and display Then insert into answer log database with SQL	
Updatescore.php	Dbutils.php	Update the score database	
		Retrieve session data and display Then insert into score database with SQL	
Updatescorelog.php	Dbutils.php	Update the scorelog database	
		Retrieve session data	
		1	
		Insert data into score log database with SQL	

Class	What does it do?			
Security.php	Checks session user ID and fail authentication if needed. Present on			
, , ,	most, if not all pages			
Levelsecurity.php	Checks if user is not jumping levels			
Getaccess.php	Sets \$userID and \$attemptID from the \$_SESSION, gets page access			
	with sql, gets dataset	Г		
Dbutils.php (Not used???)	_construct Constructs a database with passwo username, etc.			
		-	l database creation	
	Closeconnection()		ase connection	
	EscapeMySqlString	Escape strin		
	getDatasetWithParams	•	c SQL dataset with	
		parameters		
	getDataset		dataset (no parameters)	
	executeQuery	Executes an		
	getRecordsetAsJson		N object from data returned	
		by an SQL se		
Question.php			tID to the passed in variable	
			new DbUtilities variable	
	If not category	Pulls questions based on levels and		
	specified	randomly orders them		
	If category specified	Indicates practice round, gets questions		
	1 11 10 11	from specific		
	logUsedQuestion	Indicates where specific questions have been used		
	loadDistractors		ng answers for the question	
	Iodubisti deters	and randomiz		
	Other functions	Simple sets gl		
		<u> </u>		
htmlUtilities.php (Not	selectMultiControlFrom	nDb	Creates a new DbUtilities	
used???)			class, iterates through the	
,			items in the dataset and	
			displays them on the HTML	
			page	
	selectMultiControlFromNumberList		-	
			Same as previous, but	
			parameters are number of	
			questions	
	selectControlFromArray		Displays data from a single	
			array	
	displaySelectedValList		Lists items from a dateset	

	displayMonthSelectList	Displays the month and current time in the HTML	
Image.php	contruct	Creates an image class item	
illiage.plip	Other functions	Just constructor functions	
Quiz.php	construct	Creates a new database	
Quiz.prip		connection object	
	closeConnection	Close database connection	
	escapeMySqlString	Creates an escape string	
	getDatasetWithParams	Gets a specific sql data set with	
	gerbatasetvitiii arairis	parameters	
	getDataset	Creates a dataset based on an	
		SQL SELECT query where the	
		WHERE clause is concatenated	
		(No Parameters)	
	executeQuery	Executes an INSERT, UPDATE,	
		DELETE, query with a set of	
		parameters for the where	
	getRecordsetAsJson	clause Creates a JSON object from	
	gethecolusetAsjson	data returned by an SQL	
		SELECT query and a set of	
		parameters for the WHERE	
		clause	
quizQuestion	Just creates a quizquestion object with id and stem variables		
stringUltilities	cleanMySqlInsert	Fixes strings for sql inserts,	
		such as double spaces for one	
		space	
Questiondetails.php	Gets list of questions from dbUtilities and displays them. Checks		
	which answers are correct and incorrect for each question		
Questionlist	Displays list of question categories		
Remove_image.php	Removes an image from the		
Dental.js	currentDateTime	Gets the current data and time	
	updateAccess	Gets data to update user access	
	updateAnswerLog	gathers the userId,	
		selectedImageID, and if the	
		question was answered correctly	
	1.1	or not and sends all of this	
		information to the	
		information to the updatescore.php file to be input	
	undateScoreLog	information to the updatescore.php file to be input into the database	
	updateScoreLog	information to the updatescore.php file to be input into the database Updates the score log	
	updateScoreLog converDAte	information to the updatescore.php file to be input into the database Updates the score log Converts a passed in date and	
		information to the updatescore.php file to be input into the database Updates the score log	

getScoreData	takes in the attempts, userID, and level ID It proceeds to display the number of correct answers per level and the number of attempts you have tried. If the number of correct attempts on any individual level meets a certain amount designated by that level the user has won that level
showImagePreview	Allows a user to zoom in on a picture
setSession	Sets a session for a user
getFileName	Gets a url from the document
hidePLay	Hides the play link if user is engaged within a level of the game
getTopGive	Get top five score for leaderboard
getQuestion	retrieves a single question from the JSON array returned by the web service and renders associated information on the screen, including: 1. question text, 2. hint (if there is a hint associated with the question) 3. associated image 4. distractor images This function also sets properties and functionalities of image select buttons and image Magnifiers
highlightCorrectIncorrect	Takes a question parameter and displays if an answer was correct or incorrect
showHint	Shows hint in html page
showAnswerConfirm	Displays a jQueryUI modal popup to confirm whether an answer is correct or incorrect
ShowMessage	Displays a certain message in html
updateScoreBoard	Updates values displays in the scoreboard

Shuffle	Chuffles values in an array
Shuffle	Shuffles values in an array
1 . = 2	passed an argument
updateTimeBonus	Adjusts time score
getImageFromControlID	a hack to deal with scope and lifecycle of jQuery objects and event handlers. All objects generated by this function have the same pattern for IDs - the type of object followed by underscore (_) followed by the ID of the image that the object is
	connected to.
	- Image: img_xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
	mag_xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
	sel_xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
getSelectedImageData	This function is a hack to deal with scope and lifecycle of jQuery objects and event handlers. In order to get the associated image, we split the ID of select button (HTML button used to select an image) into an array - the second element of that array will always be the image ID. This function retuns an image object with all of its associated
	by matching the button ID to an ID of one of the images displayed on the screen
getUrlParameter	Gets the url of the page
countRedirect	loads next question

Dental_04_21_2015.js	I don't think this is used anymore	
Dental_old.js	I don't think this is used anymo	ore
jsonUtils	getJSON	Retrieves a JSON string returned by a web service located at a specified URL.
		Utilizes jQuery to make an Ajax call to a web service or a script that
		returns a JSON string
tableBuilder.js	runQuery	Retrieves a JSON string based on an SQL query.
		Utilizes jQuery to rest/resultstojson.php - a PHP script that generates
		a JSON string based on an SQL query
	buildResultsTable	Builds a generic HTML table based on a JSON string.
	runUserQuery	Empties target HTML div tag and calls runQuery function
	clearUserQuery	Clears/restarts a query attempt
	getProblemTables	Generates HTML tables based on SQL query results. These tables are 'question'
		tables - they display data students need to build a query/report.
		Right now the queries are hardcoded - we'll need pull this data from a
		database in the long run
	getPuzzleTables	Not finished? Does not seem to be relevant to pharmacy quiz
Reportutils.py	pivotFromQuery	Pivots data from query
	spreadsheetFromtQuery	Writes query results to a spreadsheet
sqlUtils.py	getConnection	Gets an SQL connection
	tableToDictionary	Converts an SQL database to a dictionary

	guery/Te Dataset	Converts on cal susmits a	
	queryToDataset	Converts an sql query to a dataset	
	Query to list	Converts an sql query to a list	
	Query to list	object	
	CleansqlString	Fixes an sql query string	
	execMysqlQuery	Executes an sql query	
	Record exists	Checks if a record exists in an	
		sql database	
stringUtils.py	stringToDate	Converts a string to a date	
		object	
	computeMD5hash	Computs an md5 hash	
	yearFromDateString	Gets a year from a date string	
	getJsonMapping	Gets the json from a year	
		string	
	convertDatetoMySQL	Converts a date to a mysql	
		string	
	convertDAteTimetoMySQL	Converts a date time object to	
		an sql date object	
	stripNotNumeric	Removes non number	
		characters	
	prefixZeroes	Adds a 0 to a prefix	
Quiz_import.py	-	Takes questions and inserts one correct answer and three incorrect	
	answers into it		
getDistractors.php	Gets distractor images for a question		
getPracticeQuestions.php	Retrieves questions for practice mode		
Getaccess.php	Setts user id and game attempt to the session		
Getscore.php	Gets top 5 scores or retrieves a score from a userID		
Getuserlist.php	Gets a list of users and encodes them into json		
Leaderboard_ws.php	Displays a leaderboard of the scores		
Levelsummary.php	· · · · · · · · · · · · · · · · · · ·	Displays a summary of the user's results on a level	
Logquizanswer.php	Logs the user's answer to a quest		
Question_ws.php	Gets a list of questions from a dat	tabase	
Question_ws_obj.php	Adjusts questions based on level		
Quizquestion_ws.php	Creates quizquestions and question a list	on choice obtions and adds them to	
Quizscorecard_ws.php	Keeps score for user		
Resultstojson.php	Converts a data array to json	·	
Scorecard ws.php	Creates a score card containing the number of questions answered,		
	<u> </u>		
Scorecard_ws.prip	_	ie number of questions answered,	
	correctly and incorrectly Sets the name of a user for a sess		
Setsession.php	correctly and incorrectly Sets the name of a user for a sess	ion	
Setsession.php Updateaccess.php	correctly and incorrectly	ion for a user	
Setsession.php	correctly and incorrectly Sets the name of a user for a sess Updates a the acess permissions	ion for a user	
Setsession.php Updateaccess.php Updateanswerlog.php	correctly and incorrectly Sets the name of a user for a sess Updates a the acess permissions Updates the answer log with a us	ion for a user er's attempt at a level	
Setsession.php Updateaccess.php Updateanswerlog.php Updatescore.php	correctly and incorrectly Sets the name of a user for a sess Updates a the acess permissions Updates the answer log with a us Updates a user's score	ion for a user er's attempt at a level n of a level	

Caughtcheating.php	Page to indicate that user was caught cheating		
Completedlevelsummary.php		Displays the results of the user's attempt at the level	
, , , , , , , , , , , , , , , , , , , ,	setupTimerBar()	Set up an html element to displat time	
	updateTimerBar()	Updates the information on the timer bar	
Game-level-example.php	Displays an example of a level		
	updateScoreData	Sets score data object to user's information	
Gameattempt.php	Sets the start of the quiz		
Header.php	Sets the top of the page	Sets the top of the page	
Homepage.php	Displays homepage of quiz		
Leaderboard.php	Displays the leaderboard		
Level1.php	Sets the first level		
	initQuestion	Initializes question	
	selectDxImage	Activates when user selects an answer, indicates if it is right or wrong	
Level1a.php	Determines if selecte image is correct or not. If it is orrecti, it sends the info to pdate score as true and bring up new question, similar if false		
	getScore	Retrieves score	
	hintPointDeduction	Deduces points from base score if player used a hint	
Level1tutorial.php	Displays tutorial for level 1		
Level2.hp	Sets the second level		
•	initQuestion	Initializes question	
	selectDximage	Activates when user selects an answer, indicates if it is right or wrong	
	submitLevel2Answers	Checks answer to question and increments questions completed	
	processAnswerChoices	Checks number of answers correct	
	getNumberAvailableCorrect	Gets number of available questions correct	
Level2a.php	Determines if selected image is correct or not. If it is correct, it sends the info to update score as true and bring up new question, similar if false		
	getScore	Retrieves score	
Level2tutorial.php	getScore Displays tutorial for level2	Retrieves score	
Level2tutorial.php Level3.php		Retrieves score	
	Displays tutorial for level2	Retrieves score Initialize questions	

	getImageDataFromSelection	Displays image object
	randomizeSelectableTerms	Randomizes the selectable item
		choices
	submitLEvel3Answers	Submits all of the answers for
		the user
Level3a.php	saveSelectedPairs()	Saves the matches to be scored
	selectDiagnosisMAtch	Function to store the diagnosis
		selection
	SelectImageMatch	Function to store the image
		selection
	calculateScore	Calculates the user's score
	getScore	Retrieves score
Level3tutorial.php	Displays tutorial for level 3	
Logout.php	Logs out of session	
Practice.php	Displays practice options	
practiceQuestion.php	Displays a practice question	
Practicemenu.php	Displays practice menu	
Quiz.php	loadQuestion	Loads a question for level
	submitQuestion	Submits question for answering
	getCorrectQuestionChoice	Displays correct answer
Quizscorecard.php	Displays score card of user	
Scorecard.php	Sets the score card of the user	
Tutorial.php	Shows tutorial of the quiz	
Win.php	Displays win page of quiz	