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

Class	Requires	<u>Function</u>		
Dbutils.php	None	Class for setting up databases		
		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 special 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	Cannot find use in current code base.			
Image.php	None	Class for image object			
		construct Constructs image object		Constructs image object	
Levelsecurity.php	getaccess.php	Checks to make sure th	e user isı	n't jumping levels	
Question.php	Image.php	Class for question object			
		construct		uctor function for question	
			-	Splits depending whether or	
				er is in practice mode.	
		logUsedQuestion		a question that has been	
				to used_question_log	
			databa		
		loadDistractors		istractor images for the	
		toJSON	questic		
		LOJSON	Conver	ts image List to Json	
Ouis who / saturally	None	Class for Ovic Overtica	obic st		
Quiz.php (actually for Quiz Question)	None	Class for Quiz Question construct	object	Takes database username,	
ioi Quiz Questioni		construct		password, and name	
				arguments. Constructor to	
				create a new database	
				connection object	
		closeConnection()		Close SQL database	
		crose connection()		connection	
		escapeMYSqlString		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	
				parameters for the WHERE	
				clause. This method only	
				works with SELECT queries	
		getDataset		Take SQL SELECT query	
				parameters. Creates a	
				database on an SQL SELECT	
				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	
				ciause	

		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 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	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 From answer_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
Question_ws.php	Dbutils.php	Insert data above into quizanswerlog database 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 shi nhn	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.pmp	Question object depends on user's current level
		Get game attempt and level IDs from session
		Retrieve practice categories if any
		netheve 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 ecai u_wa.piip	Doutilis.plip	Displays user's scorecard
		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
Cassian who	Nana	Convert to json and display
Session.php	None	Set name and value session data and display
Lindata a casa a aba	None	(not sure if this is used)
Updateaccess.php	None	Insert new access data in page access database
Lindataanswariaa mbr	None	Depends if session data is already set
Updateanswerlog.php	None	Update 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	
		Insert data into score log database with SQL	

Folder: Main

<u>Class</u>	Requires	<u>Functions</u>
Auth.php	Dbutils.php	Sets default database name, username, and password. Authenticate user
		Retrieve list of users
		from drupal_users Where ID matches
		Drupal_users has one entry already, set it to session
		Otherwise, authentication failed
Authfailed.php	Header.php Footer.php	Page for failed authentication
Caught_cheating.php	Security.php Dbutils.php Question.php Header.php Footer.php	Page to tell user they were cheating
Completedlevelsummary.php	Security.php Header.php levelSummary.php	Once document has been loaded into browser Set all session info
		Iterate through all answers and say whether it was answered correctly or not If level is completed, redirect to next level Otherwise, offer to repeat level

		setupTimerBar	Set up timer for the
		updateTimerBar	Change timer appearance upon completion of level
			(unsure if actually used)
Footer.php	None	Footer for page	0.000.)
Gameattempt.php	Security.php Dbutils.php	If level ID is already sincorrect_level.php	et, redirect to
	Updateaccess.php	Otherwise, send user	to level 1 tutorial
Game-level-example.php	Dbutils.php Question.php	Show an example of	
		When document is lo each image and say v right or wrong	aded, set button to whether each answer is
		updateScoreData	Takes user ID, selected image id, and if image is correct arguments Set score data variables from arguments, JSON and send score to
Header.php	None	Header to be displaye	updatescore.php ed on top of most
Homepage.php	Header.php		r game. Includes links
Leaderboard.php	Header.php Footer.php Security.php Dbutils.php Question.php	to each mode Display the leaderbox	ard for the game
Level1.php	Security.php Header.php	Page for level 1 of game	
	Footer.php Question_ws_obj.php	initQuestion	Get question from question_ws_obj.php and initialize
		selectDxImage	Take button object argument. Check if user's answer is correct or not.

			· · · · · · · · · · · ·
			If user has reached 5
			correct, level is
			passed
			If user missed 2,
			game over
Level1a.php	Security.php	Determines if the sele	cted image is correct
	Dbutils.php	or not. If it is correct,	-
	Levelsecurity.php	score as true and brin	•
	Question.php	false, send info to upo	
	Header.php	upload new question	
	Footer.php	aproduction quickers	
	1 00101.151.15	getScore	Take amount
		getocore	argument.
			Calculate score
		hintPointDeduction	Formula for
		Illintrollitbeauction	
			deducting points for hints
to de la	Control of the contro	Division that the delication	
Level1tutorial.php	Security.php	Display the tutorial fo	r ievei 1
	Dbutils.php		
	Question.php		
	Header.php		
	Footer.php		
Level2.php	Header.php	Page for level 2 of the	game
	Footer.php		
		initQuestion	Initialize
			question
		selectDxImage	Determine
			if user's
			answer was
			right
		SubmitLevel2answer	s Submit
			answers for
			level 2
		processAnswersChoi	ces Increase
			score if
			answer was
			right. If
			user wins
			or loses the
			level, send
			them to the
			correct
			page
		getNumberAvailable	
		getivalliberAvailable	
			get number

			available
			correct
Level2a.php	Security.php Dbutils.php Question.php Header.php Footer.php	Determines if the selected image is correct or not. If it is correct, send info to update score as true and bring up new question. If false, send info to updatescore data and upload new question	
			amount le, calculates
Level2tutorial	Security.php Dbutils.php Question.php Header.php Footer.php	Display tutorial for level 2	
Level3.php	Security.php Header.php	Page for level 3 of the game	
	Footer.php	initQuestion	Initialize question
		loadLevel3Question	Take data argument, load level 3 questions
		getImageDataFromSelection	Iterate through images and get data
		randomizeSelectableTerms	Randomize choices for question
		submitLevel3Answers	Submit answers for level 3, redirect depending on amount right or wrong
Level3a.php	Security.php Dbutils.php Question.php Header.php Footer.php	Determines if the selected image is correct or not. If it is correct, send info to update score as true and bring up new question. If false, send info to updatescore data and upload new question	

		saveSelectedPairs selectDiagnosisMatch selectImageMatch calculateScore	Save image matches to be scored Function to store the diagnosis selection Function to store the image selection Calculate score
		getScore	Function to calculate score
Level3tutorial.php	Security.php Dbutils.php Question.php Header.php Footer.php	Tutorial for level 3	
Logout.php	None	Reset session data	
Practice.php	Security.php Dbutils.php Question.php Header.php Footer.php	Load up practice page for game	
Practicemenu.php	Security.php Dbutils.php Question.php Header.php Footer.php	Display the practice menu	
practiceQuestion.php	Security.php Dbutils.php Levelsecurity.php Question.php Header.php Footer.php	Display a practice question	
Quiz.php	Security.php Header.php	Page for quiz	
	Footer.php logquizanswer	loadQuestion()	Load quiz question
		submitQuestion	Submit answer
		getCorrectQuestionCho	
Quizscorecard.php	Security.php Dbutils.php	Page to display quiz score card	

	Question.php	
	Header.php	
	Footer.php	
	Quizscorecard.php	
Scorecard.php	Security.php	Page for the game score card
	Dbutils.php	
	Question.php	
	Header.php	
	Footer.php	
Tutorial.php	Security.php	Page to display quiz tutorial
	Dbutils.php	
	Question.php	
	Header.php	
	Footer.php	
Win.php	Security.php	Win page for game
	Dbutils.php	
	Levelsecurity.php	
	Question.php	
	Header.php	
	Footer.php	

Database Accesses

Class	Access Which Databases
Admin Folder	
Questiondetails.php	Questions
	Categories
	Questions_images
	Distractors
Questionlist.php	Questions
Remove_image.php	Questions_images
Question.php	Questions
	Questions_levels
	Questions_images
	Images
	Used_question_log
	Distractors
Rest Folder	
Getaccess.php	Pageaccess
getDistractors	Distractors
	Questions
getPracticeQuestions	Categories
	Questions
Getscore.php	Score
	Questioncomplete
Getuserlist.php	Drupal101.drupal_users

Leaderboard_ws.php	Dentalgame.scorelog
Levelsummary.php	Scorelog
	Answerlog
Logquizanswer.php	Quizanswerlog
Question_ws.php	Questions
	Questions_images
	Images
	Distractors
	Questions_levels
Quizquestion_ws.php	Quizquestions
	Quizquestionchoices
Quizscorecard_ws.php	Quizanswerlog
Scorecard_ws.php	Scorelog
Updateaccess.php	Pageaccess
Updateanswerlog.php	Answerlog
Updatescore.php	Score
Updatescorelog.php	Scorelog
Main Folder	
Auth.php	Drupal101.drupal_users

Databases (Primary Key is Bolded) – Double Check with db_07_30_2017_2.sql

	1		1 -
Table	Key	Constraint	References
answerlog			
ScoreID			
userID			
Fk_questionID	Fk_answerlog_questions_idx	Fk_answerlog_questions	questions (question ID)
Fk_imageID	Fk_answerlog_images_idx	Fk_answerlog_images	Images (imageID)
isCorrect			
attemptID			
levelID			
levelAttemptNumber			
dateTimeSelected			
<u>Categories</u>			
categoryID			
categoryName			
<u>Distractors</u>			
distractorID			
Fk_forQuestionID	Fk_distractors_questions_idx	Fk_distractors_questions_forQuestionID	Questions (questionID)
Fk_distructorQuestionID	Fk_distractor_questions_distractorQuestionID_idx	Fk_distractor_questions_distractorQuestionID	Questions (questionID)
<u>Images</u>			
imageID			
imageFolder			
imageName			
<u>Pageaccess</u>			

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Attemption	pageaccessID			
InvelAccess				
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Quizanswerlog logID				(questionID)
Second	levelID			
Second	Quizanswerlog			
UserID				
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Fk_questionID Fk_questionID				
Fk_categoryID				
	Fk_categoryID			

Used_question_log			
attemptID			
questionID	Fk_used_question_log	Fk_used_question_log_questions	Questions (questionID)
levelID			