CS 408
PROJECT CHARTER

Team 4

Project Name: FindMyTutor

Team Members:
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1. Design Inspection Defects (20 points)
- The design inspection defects should reveal the defects which occur while combining the modules or during the interaction between the modules

Product	TutorMe Design Inspection		
Date	10/12		
Author	TutorMe Team		
Moderator	Matt Coker		
Inspectors	Rajat Srivastava, Srishti Gupta, Travis Kent		
Recorder	Zachary Kent		
Defect #	Description	Severity	How Corrected
D1	When viewing a tutor's information on the Tutor Search page, the email updates on the first loading, but is never re-updated for other tutors.	1	When refreshing the tutor info HTML insertion in the javascript, updated the email to load each new tutor's email.
D2	When reducing the size of login page, the text boxes does not reduce in size as they remain fixed.	3	Corrected the defect by converting the login page into bootstrap.
D3	The second layer of sidebar menu on main page overlaps the tutor information.	2	The tutor information container was padded to make sure it never gets overlapped.
D4	User is not informed if password and confirm password does not match in the sign up match.	2	Corrected by using display error message using bootstrap modal.
D5	When loading the calendar view for each tutor in the Tutor Search page, the heading spacing changes if there's a schedule entry existing.	3	Changed positioning and min width attributes for weekday headings.
D6	When loading the calendar view the logged in tutor in the tutor settings page, the heading spacing changes if there's a schedule entry existing.	3	Again, changed positioning and min width attributes for weekday headings.
D7	On the Tutor Search page, when resizing the page, the Tutor Information in the heading doesn't resize, but instead layers on top of each other.	3	Changed the margin and float attributes on each information item to a pixel amount and float: left.

D8	When resizing the page, the stars for the star rating become vertical.	3	Changed the minimum height for the container with the stars to the height of the stars.
D9	The class list on the tutor setting page extended further above than wanted.	2	Changed the maximum height attribute for the class list.
D10	"Show Password" was not in the same line as the password input text box.	3	<span> was used to group the two things together, along with proper use of bootstrap columns.
D11	Clicking a class on the Tutor Settings page was not loading the expected module.	1	The z-index of the module was wrong, changed it to a higher number.

2. Code Inspection Defects (40 points)
- For code inspection, we expect the defects arising from inefficient or wrong coding techniques which could result in exceptions etc.

Product	TutorMe Code Inspection
Date	10/12
Author	TutorMe Team
Moderator	Rajat Srivastava
Inspectors	Matt Coker, Srishti Gupta, Zachary Kent
Recorder	Travis Kent

Defect #	Description	Severity	How Corrected
C1	If any backend function crashes, the entire website will crash as well.	1	Surrounded everything in the backend functions with a try/catch statement.
C2	The sidebar buttons for each class to show tutor names did not work.	1	Assigned appropriate ids to all buttons and made sure correct ids are being used in javascript.
C3	Getting tutor data crashes if some data is null in database.	1	Check if data values are null before parsing them.
C4	Updating a tutor's or user's calendar allows them to select times that overlap with times that already exist in the database.	3	Check database for overlapping times before adding the new time to the database.

C5	"Show Password" button in the User Settings page did not change text even after the password was made visible, by the same button..	3	It was checked in jQuery that if the type of text box is text, then change the text of the button to "Hide Password".
C6	When sending the class information from a backend method to the front, the array was not being read by the JavaScript in the front.	1	Converted the data structure sent to an array of strings, and the JavaScript parser to account for the new structure.
C7	Adding parameters to SQL commands by adding strings together is not robust and can result in crashes.	2	Use Parameters.AddWithValue() to add parameters to SQL queries.
C8	Adding free time in user settings does not add the time object to the list.	1	The free time object needs to be pushed to the SQL table, and the page should be refreshed on clicking "Add" button so that recently added event gets displayed in the list.
C9	The user settings page does not ask for user's current password.	2	A "Current Password" input was added the the page.
C10	The user settings page does not ask for the user to re-type the new password in different text box, to make sure both the passwords match.	2	A "Repeat New Password" input was added to the page.
C11	When re-rating a tutor, the SQL query will fail due to non-uniqueness of the primary keys and the old rating is not updated in the database.	2	Add code which checks the status of the insert query and performs an update query if the insert failed.
C12	When creating a new user, the registration page redirected the user without verifying that they were successful.	2	Insert a check to make sure all inputs existed and were valid.
C13	Logging into a user account did not store the current userID for use on the TutorSearch page.	3	Stored the userID locally using Javascript.
C14	When using the registration page, the full size of the text entry boxes was not visible.	2	Updated the registration page to use bootstrap and created a new container.
C15	Loading the TutorSearch page takes slightly longer than other pages as it needs access to all of the databases.	1	Normalized the backend tables so that there was reduced data redundancy.
C16	On the user registration page, attempting to add values that were larger than VAR255 would cause data entry to fail.	2	Created a notification to prevent the user from entering data that was too large for that database field.

C17	On the user registration page, users would be created even if the two password entry fields did not match exactly.	3	Added a more robust check to ensure that both fields had to be exactly the same. I.E. No extra spaces or different cases.
C18	For users that had not yet opted to become tutors, the TutorProfile button was still visible.	2	Updated the button to say 'Become Tutor' for users that are not yet tutors by performing a check onLoad.
C19	When creating an account users are sent a registration email. If this account does not exist an email will not be sent, but the user was never notified of failure.	3	Added a check to the SendRegistationEmail function to handle if the email sending was unsuccessful, then notified the user.
C20	When tutors added overlapping available time slots, two available slots would show rather than just one large one.	2	Updated the loading of the calendar to check if there are any overlapping times and merge them.
C21	After selecting the 'LogOut' button and returning to the Login page, the previous userID was still stored. This allowed the next user to access the previous users data without logging in if it was during the same session.	3	Wiped the userID from local storage using JavaScript when the LogOut button is clicked.

3. Unit Testing Defects (40 points)
- For unit testing, we expect you to clearly define modules of your product, to identify the input and output of each module, and to list down the defects found during the unit testing of each module.

Product	Login Module Inspection		
Date	10/12		
Author	TutorMe Team		
Moderator	Srishti Gupta		
Inspectors	Rajat Srivastava, Zachary Kent, Travis Kent		
Recorder	Matt Coker		
Defect #	Description	Severity	How Corrected

U1	User is redirected to the tutor search page when clicked on logout button.	1	Fixed by using windows local storage to have the correct link, so that user is redirected to the login page.
U2	Not entering a password still allows access to the site.	2	Change to bootstrap, and make it a required field.
U3	The login module could be bypassed by attempting to visit the TutorSearch page directly.	2	Make the TutorSearch module check for a UserID onLoad.

Product	TutorSearch Module Inspection		
Date	10/12		
Author	TutorMe Team		
Moderator	Srishti Gupta		
Inspectors	Rajat Srivastava, Zachary Kent, Travis Kent		
Recorder	Matt Coker		
Defect #	Description	Severity	How Corrected
U1	When using AJAX calls in the frontend to communicate with the backend, an "Unauthorized access" error was occurring.	1	Changing the permissions setting in the app.config file in the overall project.
U2	When updating the sidebar of classes, the classes were being loaded in reverse order.	3	Start the loading iteration from the opposite end.
U3	When sending multiple class names from the backend to the front, only one class name was being loaded, but it was being loaded multiple times.	1	Fixed the variable that checked each iteration of class names.

Product	Tutor-Profile Module Inspection

Date	10/12
Author	TutorMe Team
Moderator	Rajat Srivastava
Inspectors	Srishti Gupta, Zachary Kent, Travis Kent
Recorder	Matt Coker

Defect #	Description	Severity	How Corrected
U1	Creating a new available time on the schedule was being sent to the backend.	1	Changed the data structure by which the schedule time were being sent to a JSON structure.
U2	When loading the classes being taught, only a single class was ever being loaded.	1	Added the number of classes to be load into the first item in the class name array that names are being loaded from.
U3	Updating the tutor's description did not save and get updated upon re-loading.	3	Add a check to determine if an update of the description is required.

Product	User-Profile Module Inspection
Date	10/12
Author	TutorMe Team
Moderator	Rajat Srivastava
Inspectors	Srishti Gupta, Zachary Kent, Travis Kent
Recorder	Matt Coker

Defect #	Description	Severity	How Corrected

U1	Creating a new available time on the schedule was being sent to the backend.	1	Changed the data structure by which the schedule time were being sent to a JSON structure.
U2	When loading the classes available, only a single class was ever being loaded.	1	Added the number of classes to be load into the first item in the class name array that names are being loaded from.
U3	The new free times being added were not displayed on the calendar upon clicking "Add" button.	2	Fetched the data for the free times on the table and reloaded the page upon clicking the button.

Product	Backend Module Inspection		
Date	10/12		
Author	TutorMe Team		
Moderator	Travis Kent		
Inspectors	Rajat Srivastava, Zachary Kent		
Recorder	Matt Coker		
Defect #	Description	Severity	How Corrected
U1	When sending class information to be loaded on the front end, the data was unreadable by the frontend logic.	1	Changed the structure in which the data was being sent to an array of strings.
U2	When a user adds a rating to a tutor, the tutor's average rating is not updated in the backend.	2	Calculate new average rating and update tutor's data when adding a new rating.
U3	When sending the array of class name strings to the front end, not all of the classes were being sent, and if there weren't enough classes, an exception thrown.	1	Made the first string in the array the size of the array - 1, to communicate how many classes were to be sent/received.
U4	When users were added to the Database, the same email could be used twice.	3	Modified the database to only allow unique users.