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| --- | --- | --- | --- | --- |
| Item to be tested | Data inputs | Expected output | Actual output | Changes required |
| Login page loads when user is not logged in? | User opens the solution but is not logged in | User is redirected to the login page | User is redirected to the login page | None |
| Login page loads correctly | User opens the log in page and is not logged in | Login page loads. All elements on the login page are visible and in their correct position. | Login page loads. All elements on the login page are visible and in their correct position  If the user has not added any subjects (is a new user) the “You haven’t added any subjects/tasks yet!” error message appears | Ensure that the “You haven’t added any subjects/tasks yet!” doesn’t appear on the login page. |
| Login page’s username text input | Alex  11111  Alex122  (blank) | User can type in their username  “Please fill in this field” error message appears. User cannot proceed without filling in the form. | User can type in their username  “Please fill in this field” error message appears. User cannot proceed without filling in the form. | None |
| Login page’s password text input | Abcdef  12345  Abcdef122  (blank) | User can type in their password. Passwords are hidden behind dots/asterisks.  “Please fill in this field” error message appears. User cannot proceed without filling in the form. | User can type in their password. Passwords are hidden behind dots/asterisks.  “Please fill in this field” error message appears. User cannot proceed without filling in the form. | None |
| Login page’s login button | User has inputted the right user details  and clicks on the login button  (user: Alex,  pass: abcde)  User has inputted only the username and clicks on the login button  (user: Alex,  Pass: (blank))  User has inputted only the password and clicks on the login button  (user: (blank),  Pass: abcde)  User has inputted the user details of a user that doesn’t exist in the database yet and clicks on the login button  (user: Albert,  Pass: study122)  User has inputted the correct password but the incorrect username  and clicks on the login button  (user: Al,  Pass: abcde)  User has inputted the correct username but the incorrect password  and clicks on the login button  (user: Alex,  Pass: ab)  User has inputted the correct username and password but uses incorrect capitalisation  and clicks on the login button  (user: ALex,  Pass: ABCDE)  (user: aleX,  Pass: abcde)  (user: alex,  Pass: abcde)  (user: ALEX,  Pass: ABCDE) | User is sent to the home page (index.php)  “Please fill in this field” error message appears and doesn’t let user enter the solution.  “Please fill in this field” error message appears and doesn’t let user enter the solution.  Error message “That user doesn’t exist! Please try again” appears and doesn’t let user enter the solution  Error message “That user doesn’t exist! Please try again” appears and doesn’t let user enter the solution  Error message “Incorrect username or password! Please try again.” appears  Error message “Incorrect username or password! Please try again.” appears | User is sent to the home page (index.php)  If two accounts have the same username, only the most recent account’s user details can be used to access the solution.  “Please fill in this field” error message appears and doesn’t let user enter the solution.  “Please fill in this field” error message appears and doesn’t let user enter the solution.  Error message “That user doesn’t exist! Please try again” appears and doesn’t let user enter the solution  Error message “That user doesn’t exist! Please try again” appears and doesn’t let user enter the solution  Error message “Incorrect username or password! Please try again.” appears  Error message “Incorrect username or password! Please try again.” appears | Place validation to ensure that two users cannot have the same username when registering |
| Link to register page on the login page | User clicks on the link | User is sent to the register page (register.php) | User is sent to the register page (register.php) | None |
| Register page loads correctly | User opens the register page and is not logged in | Login page loads. All elements on the register page are visible and in their correct position. | Login page loads. All elements on the register page are visible and in their correct position.  If the user has not added any subjects (is a new user) the “You haven’t added any subjects/tasks yet!” error message appears | Ensure that the “You haven’t added any subjects/tasks yet!” doesn’t appear on the register page. |
| Register page’s username input | Alex  11111  Alex122  (blank)  Bob (another user’s username)  Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa | User can type in their username  “Please fill in this field” error message appears. User cannot proceed without filling in the form.  Error message “Username is already taken” appears.  Error message “Username is too long” appears. | User can type in their username  “Please fill in this field” error message appears. User cannot proceed without filling in the form.  Error message “Username is already taken” appears.  User can type in their username | Ensure that long and already taken (identical) usernames cannot be used |
| Register page’s password input | Alexander  11111  Alex122  alex1  Alex  1111  Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa | User can type in their password  “Please match the format requested. 5 characters minimum.” error message appears  Error message “Password is too long” appears | User can type in their password  “Please match the format requested. 5 characters minimum.” error message appears | Ensure that long passwords cannot be used |
| Register page’s login button | User has entered a username and a password that is 5 or more characters long.  (user: Sam,  Pass: Green)  (user: Sam,  Pass: GreenEggs1)  User has entered a username and a password that is not 5 or more characters long.  (user: Sam,  Pass: Ham) | A new account is created, an XML file with the default timer settings is created and the user is redirected to the home page (index.php)  “Please match the format requested. 5 characters minimum.” error message appears | A new account is created, an XML file with the default timer settings is created and the user is redirected to the home page (index.php)  “Please match the format requested. 5 characters minimum.” error message appears | None |
| Link to login page on the login page | User clicks on the link | User is sent to the login page (login.php) | User is sent to the login page (login.php) | None |
| Home page loads when user is already logged in | User opens the solution and is logged in | User is redirected to the home page (index.php) | User is redirected to the home page (index.php) | None |
| Home page (index.php) loads correctly | User opens the solution and is logged in | Loads the home page. All elements on the home page are visible and in their correct position.  The display name, time and date shown (“Hello Alex, it’s currently 3:23pm. Thursday, 2 August 2018”) is correct. The display name defaults to the user’s username, unless changed in the settings. | Loads the home page. All elements on the home page are visible and in their correct position.  The display name, time and date shown (“Hello Alex, it’s currently 3:23pm. Thursday, 2 August 2018”) is correct. The display name defaults to the user’s username, unless changed in the settings. | None |
| Home page navigation bar | Clicked on logo  Clicked on ‘Home’  Clicked on ‘View Statistics’  Clicked on ‘help’  Clicked on ‘settings’  Clicked on ‘logout’ | Nothing happens.  Nothing happens.  User is redirected to the view statistics page (report.php)  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | Nothing happens.  Nothing happens.  User is redirected to the view statistics page (report.php)  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | None |
| Home page – adding subjects input box | User types in the name of a new subject and presses enter  (English Language,  11111111111,  English as an additional)  User clicks on the subjects input box and presses enter without typing in anything  (blank)  User types in a name of a subject that is equal to or is greater than 25 characters long, including spaces  (Algorithmics (Higher Education Scored Study),  English as an additional lang) | User is able to add a new subject to their list and is shown in the list with the time value of 0.  Error message “You haven’t entered a subject or a task” appears and the subject/task is not added to their list.  Error message “Subject name is too long.” appears and the subject/task is not added to their list. | User is able to add a new subject to their list and is shown in the list with the time value of 0.  Error message “You haven’t entered a subject or a task” appears and the subject/task is not added to their list.  Error message “Subject name is too long.” appears and the subject/task is not added to their list. | None |
| Home page – delete subject/task button | Clicked on delete button next to ‘English Language’  Clicked on delete button next to ‘Maths’ | Alert displays with the message “Delete English Language?”. If user clicks on ‘ok’, the alert disappears and English Language is deleted. If user clicks ‘cancel’, the alert disappears and nothing is deleted.  Alert displays with the message “Delete Maths?”. If user clicks on ‘ok’, the alert disappears and Maths is deleted. If user clicks ‘cancel’, the alert disappears and nothing is deleted. | Alert displays with the message “Delete English Language?”. If user clicks on ‘ok’, the alert disappears and English Language is deleted. If user clicks ‘cancel’, the alert disappears and nothing is deleted.  Alert displays with the message “Delete Maths?”. If user clicks on ‘ok’, the alert disappears and Maths is deleted. If user clicks ‘cancel’, the alert disappears and nothing is deleted. | None |
| Home page – sorting selection | Selected ‘No sorting’.  Selected ‘Name: A - Z’  Selected ‘Name: Z - A’  Selected ‘Time: highest – lowest’  Selected ‘Time: lowest - highest’ | The subject/task list is sorted in historical order (oldest to newest). When refreshed, or when the user leaves the page and comes back, ‘no sorting’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted in alphabetical order (A – Z) and is case insensitive. When refreshed, or when the user leaves the page and comes back, ‘Name: A – Z’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted in alphabetical order (Z - A) and is case insensitive. When refreshed, or when the user leaves the page and comes back, ‘Name: Z - A’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted by its time value from highest to lowest. When refreshed, or when the user leaves the page and comes back, ‘Time: highest – lowest’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted by its time value from lowest to highest. When refreshed, or when the user leaves the page and comes back, ‘Time: lowest - highest’ is still selected and is still applied to the subject/task list. | The subject/task list is sorted in historical order (oldest to newest). When refreshed, or when the user leaves the page and comes back, ‘no sorting’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted in alphabetical order (A – Z) and is case insensitive. When refreshed, or when the user leaves the page and comes back, ‘Name: A – Z’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted in alphabetical order (Z - A) and is case insensitive. When refreshed, or when the user leaves the page and comes back, ‘Name: Z - A’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted by its time value from highest to lowest. When refreshed, or when the user leaves the page and comes back, ‘Time: highest – lowest’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted by its time value from lowest to highest. When refreshed, or when the user leaves the page and comes back, ‘Time: lowest - highest’ is still selected and is still applied to the subject/task list. | None |
| Timer page loads correctly | Subject selected: ‘English’  Timer type: countdown  Timer length: 30 minutes  Subject selected: ‘Maths’  Timer type: countup | Displays the text: “Working on English…” with the timer set as 30:00. All elements are in their correct positions.  Displays the text: “Working on Maths…” with the timer set as 00:00. All elements are in their correct positions. | Displays the text: “Working on English…” with the timer set as 30:00. All elements are in their correct positions.  Displays the text: “Working on Maths…” with the timer set as 00:00. All elements are in their correct positions. | None |
| Timer page – navigation bar | Clicked on logo  Clicked on ‘Home’  Clicked on ‘View Statistics’  Clicked on ‘help’  Clicked on ‘settings’  Clicked on ‘logout’ | User is redirected to the home page (index.php)  User is redirected to the home page (index.php)  User is redirected to the view statistics page (report.php)  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | User is redirected to the home page (index.php)  User is redirected to the home page (index.php)  User is redirected to the view statistics page (report.php)  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | None |
| Timer -start/stop/resume/start over button | Subject selected: ‘English’  Timer type: countdown  Timer length: 30 minutes  Subject selected: ‘Maths’  Timer type: countup | When the start button is pressed, the button changes to the stop button and the timer counts down from 30:00.  When the stop button is pressed, the button changes to the resume button and the timer is paused.  When the resume button is pressed, the button changes to the stop button and the timer resumes counting down.  When the timer runs out and the button turns into the start over button, when pressed, the timer will reset back to its original value.  When the start button is pressed, the button changes to the stop button and the timer counts up from 00:00.  When the stop button is pressed, the button changes to the resume button and the timer is paused.  When the resume button is pressed, the button changes to the stop button and the timer resumes counting down.  When the timer runs out and the button turns into the start over button, when pressed, the timer will reset back to its original value. | When the start button is pressed, the button changes to the stop button and the timer counts down from 30:00.  When the stop button is pressed, the button changes to the resume button and the timer is paused.  When the resume button is pressed, the button changes to the stop button and the timer resumes counting down.  When the timer runs out and the button turns into the start over button, when pressed, the timer will reset back to its original value.  When the start button is pressed, the button changes to the stop button and the timer counts up from 00:00.  When the stop button is pressed, the button changes to the resume button and the timer is paused.  When the resume button is pressed, the button changes to the stop button and the timer resumes counting down.  When the timer runs out and the button turns into the start over button, when pressed, the timer will reset back to its original value. | None |
| Timer - reset button | Timer type: countdown  Timer length: 30 minutes  Timer type: countup | When the reset button is clicked, the timer stops and is reset to its original value (30:00).  When the reset button is clicked, the timer will stop and be reset to 00:00. | When the reset button is clicked, the timer stops and is reset to its original value (30:00).  When the reset button is clicked, the timer will stop and be reset to 00:00. | None |
| Timer – done button | User clicks on the done button | When the user clicks on the done button, they are redirected to the timer done page (timer\_done.php) | When the user clicks on the done button, they are redirected to the timer done page (timer\_done.php) | None |
| Timer - sounds | Timer type: countdown  Timer length: 5 minutes | After the timer counts down to 00:00, a looping sound plays until the user clicks on the start over, reset or done button, or leaves the page | After the timer counts down to 00:00, a looping sound plays until the user clicks on the start over, reset or done button, or leaves the page | None |
| Timer – push notifications | Timer type: countdown  Timer length: 5 minutes | After the timer counts down to 00:00, a push notification with the message “Time’s up. Remember to take frequent breaks!” displays for 5 seconds then disappears.  If push notifications are not supported on the user’s browser, the error message “Your browser doesn’t support notifications.” appears instead. | After the timer counts down to 00:00, a push notification with the message “Time’s up. Remember to take frequent breaks!” displays for 5 seconds then disappears.  If push notifications are not supported on the user’s browser, the error message “Your browser doesn’t support notifications.” appears instead. | None |
| Timer done page loads correctly | Subject selected: English  Timer type: countdown  Timer length: 30 minutes  Time lapsed: 10 minutes  Time lapsed: 1 minute  Time lapsed: 10 seconds  Time lapsed: 1 second  Time lapsed: 0 seconds | Displays the text: “Working on English…” and displays “All elements are in their correct positions.  The text “Did you work on English for 30 minutes?” displays with a confirmation button next to it.  The text “Did you work on English for 10 minutes?” displays with a confirmation button next to it.  The text “Did you work on English for 1 minute?” displays with a confirmation button next to it.  The text “Less than 1 minute (10 seconds) was recorded” displays. No confirmation button is displayed.  The text “Less than 1 minute (1 second) was recorded” displays. No confirmation button is displayed.  The text “No time was recorded” displays. No confirmation button is displayed. | Displays the text: “Working on English…” and displays “All elements are in their correct positions.  The text “Did you work on English for 30 minutes?” displays with a confirmation button next to it.  The text “Did you work on English for 10 minutes?” displays with a confirmation button next to it.  The text “Did you work on English for 1 minute?” displays with a confirmation button next to it.  The text “Less than 1 minute (10 seconds) was recorded” displays. No confirmation button is displayed.  The text “Less than 1 minute (1 second) was recorded” displays. No confirmation button is displayed. | None |
| Timer done – navigation bar | Clicked on logo  Clicked on ‘Home’  Clicked on ‘View Statistics’  Clicked on ‘help’  Clicked on ‘settings’  Clicked on ‘logout’ | User is redirected to the home page (index.php)  User is redirected to the home page (index.php)  User is redirected to the view statistics page (report.php)  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | User is redirected to the home page (index.php)  User is redirected to the home page (index.php)  User is redirected to the view statistics page (report.php)  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | None |
| Timer done – confirmation button | User clicks on confirmation button (“yes” button)  Subject selected: English  Time lapsed: 10 minutes  Subject selected: English  Time lapsed: 1 minute | The timer length specified is added to the subject’s current time spent and user is redirected to the home page (index.php)  On the subject/task list on the home page and in the view statistics page (today), next to English, 10 minutes is shown.  On the subject/task list on the home page and in the view statistics page (today), next to English, 11 minutes is shown (since user has already added 10 minutes before) | The timer length specified is added to the subject’s current time spent and user is redirected to the home page (index.php)  On the subject/task list on the home page and in the view statistics page (today), next to English, 10 minutes is shown.  On the subject/task list on the home page and in the view statistics page (today), next to English, 11 minutes is shown (since user has already added 10 minutes before) | None |
| Timer done – manual time length input | 999999999999999999999999999 minutes  9999999 minutes  10 minutes  1 minute  0 minutes  -1 minutes  a (and any other non-numerical character)  (blank) | User is not allowed to enter the value. Error message displays. No time value is added to the subject/task.  User is not allowed to enter the value. Error message displays. No time value is added to the subject/task.  10 minutes is added to the subject/task.  1 minute is added to the subject/task.  User is not allowed to enter the value. Error message displays. No time value is added to the subject/task.  User is not allowed to enter the value. Error message displays. No time value is added to the subject/task.  User can’t type in non-numeric character. Nothing is shown in the input box. Error message “Please input a number” displays. No time value is added to the subject/task.  Nothing happens. | User can enter in the value. No error message displays. No time value is added to the subject/task. On the database, the subject is seen to have the time value of 2147483647 minutes  User can enter in the value. No error message displays. No time value is added to the subject/task. On the database, the subject is seen to have the time value of 0 minutes (acting as if it’s a new subject)  10 minutes is added to the subject/task.  1 minute is added to the subject/task.  No error message displays.  No error message displays. 1 minute is subtracted from the subject/task. The subject/task now has a value of -1 (if the value was originally 0)  For all non-numerical characters (except for e) nothing happens. User can’t type in non-numeric characters. Nothing is shown in the input box. Error message “Please input a number” displays. No time value is added to the subject/task.  If the letter ‘e’ is typed in, it appears in the input box. No error message is shown. No time value is added to the subject/task.  User is redirected to the home page (index.php) | Ensure that large, negative, blank/zero time values and the letter ‘e’ are not allowed to be inputted into the input box and to implement and ensure that error messages display. |
| Timer done – go back to timer button | Clicked on ‘go back to timer’ button | User is redirected to timer page (work.php) | User is redirected to timer page (work.php) | None |
| Timer done – done button | Clicked on ‘done’ button | The time value specified is added to the subject/task and the user is redirected to the home page (index.php) | The time value specified is added to the subject/task and the user is redirected to the home page (index.php) | None |
| View statistics pages loads correctly | Current date and date of record: 04/08/2018 (Saturday 4th August 2018)  Records:  None  Date of record: 03/08/2018 (Friday 3rd August 2018)  Records:  1 minute on Subject 1  Date of record: 02/08/2018 (Thursday 2nd August 2018)  Records:  None  Sorting chosen on the home page: Time (highest-lowest)  Date of record:  29/07/2018 (Sunday 29th July 2018)  Records:  17 minutes on Subject 6  1 minute on Subject 1  30 minutes on Subject 2  8 minutes on Subject 4 | The correct reports are shown (either past or current records). The correct date of the record is shown. All elements are in the correct positions.  ‘Back one day’ and the ‘today’ buttons are shown. The date ‘Saturday 4th August 2018’ is shown. The text reads “No records available to show. Record the time on a subject/task today then check back here!”  ‘Back one day’, ‘forward one day’ and the ‘today’ buttons are shown. The date ‘Friday 3rd August 2018’ is shown. The text reads “1 day ago you worked for: 1 minute in total.  You spent:  1 minute on Subject 1”  ‘Back one day’, ‘forward one day’ and the ‘today’ buttons are shown. The date ‘Thursday 2nd August 2018’ is shown. The text reads “No records available to show.”  ‘Back one day’, ‘forward one day’ and the ‘today’ buttons are shown. The date ‘Sunday 29th July 2018’ is shown. The text reads “6 days ago you worked for: 56 minutes in total.  You spent:  30 minutes on Subject 2  17 minutes on Subject 6  1 minute on Subject 1  8 minutes on Subject 4” | The correct reports are shown (either past or current records). The correct date of the record is shown. All elements are in the correct positions.  ‘Back one day’ and the ‘today’ buttons are shown. The date ‘Saturday 4th August 2018’ is shown. The text reads “No records available to show. Record the time on a subject/task today then check back here!”  ‘Back one day’, ‘forward one day’ and the ‘today’ buttons are shown. The date ‘Friday 3rd August 2018’ is shown. The text reads “1 day ago you worked for: 1 minute in total.  You spent:  1 minute on Subject 1”  ‘Back one day’, ‘forward one day’ and the ‘today’ buttons are shown. The date ‘Thursday 2nd August 2018’ is shown. The text reads “No records available to show.”  ‘Back one day’, ‘forward one day’ and the ‘today’ buttons are shown. The date ‘Sunday 29th July 2018’ is shown. The text reads “6 days ago you worked for: 56 minutes in total.  You spent:  30 minutes on Subject 2  17 minutes on Subject 6  1 minute on Subject 1  8 minutes on Subject 4” | None |
| View statistics - navigation bar | Clicked on logo  Clicked on ‘Home’  Clicked on ‘View Statistics’  Clicked on ‘help’  Clicked on ‘settings’  Clicked on ‘logout’ | User is redirected to home page (index.php)  User is redirected to home page (index.php)  Nothing happens  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | User is redirected to home page (index.php)  User is redirected to home page (index.php)  Nothing happens  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | None |
| View statistics – back one day button | Was viewing the report for 3/08/2018 (which is also the current date) and clicked on the ‘back one day’ button  Was viewing the report for 3/08/2018 and clicked on the ‘back one day’ button | View statistics page shows the record of the previous day (3/08/2018). The report displays correctly. The date ‘Friday 3rd August 2018’ is shown. The text reads “1 day ago you worked for: 1 minute in total.  You spent:  1 minute on Subject 1”  View statistics page shows the record of the previous day (2/08/2018). The report displays correctly. The date ‘Thursday 2nd August 2018’ is shown. The text reads “No records available to show.” | View statistics page shows the record of the previous day (3/08/2018). The report displays correctly. The date ‘Friday 3rd August 2018’ is shown. The text reads “1 day ago you worked for: 1 minute in total.  You spent:  1 minute on Subject 1”  View statistics page shows the record of the previous day (2/08/2018). The report displays correctly. The date ‘Thursday 2nd August 2018’ is shown. The text reads “No records available to show.” | None |
| View statistics – forward one day button | Was viewing the report for 3/08/2018 (yesterday) and clicked on the ‘forward one day’ button  Was viewing the report for 2/08/2018 (2 days ago) and clicked on the ‘forward one day’ button | View statistics page shows the record of the current day (4/08/2018). The report displays correctly. The date ‘Saturday 4th August 2018’ is shown. The text reads “No records available to show. Record the time on a subject/task today then check back here!”  View statistics page shows the record of the next day (3/08/2018). The report displays correctly. The date ‘Friday 3rd August 2018’ is shown. The text reads “1 day ago you worked for: 1 minute in total.  You spent:  1 minute on Subject 1” | View statistics page shows the record of the current day (4/08/2018). The report displays correctly. The date ‘Saturday 4th August 2018’ is shown. The text reads “No records available to show. Record the time on a subject/task today then check back here!”  View statistics page shows the record of the next day (3/08/2018). The report displays correctly. The date ‘Friday 3rd August 2018’ is shown. The text reads “1 day ago you worked for: 1 minute in total.  You spent:  1 minute on Subject 1” | None |
| View statistics – today button | Was viewing the report for 3/08/2018 (yesterday) and clicked on the ‘today’ button  Was viewing the report for 2/08/2018 (2 days ago) and clicked on the ‘today’ button | The record for the current date (4/08/2018) is shown. The date ‘Saturday 4th August 2018’ is shown. The text reads “No records available to show. Record the time on a subject/task today then check back here!”  The record for the current date (4/08/2018) is shown. The date ‘Saturday 4th August 2018’ is shown. The text reads “No records available to show. Record the time on a subject/task today then check back here!” | The record for the current date (4/08/2018) is shown. The date ‘Saturday 4th August 2018’ is shown. The text reads “No records available to show. Record the time on a subject/task today then check back here!”  The record for the current date (4/08/2018) is shown. The date ‘Saturday 4th August 2018’ is shown. The text reads “No records available to show. Record the time on a subject/task today then check back here!” | None |
| View statistics – go back button | User clicks on the ‘go back’ button | User is redirected to the home page (index.php) | User is redirected to the home page (index.php) | None |
| Help page loads correctly | User views the help page | All relevant information is shown clearly. The images are loaded and displayed correctly. | All relevant information is shown clearly. The images are loaded and displayed correctly except for the image for settings (timer) page. The image for the settings (account) page is shown instead. | Change the image used for settings (timer) to the correct image. |
| Help page – navigation bar | Clicked on logo  Clicked on ‘Home’  Clicked on ‘View Statistics’  Clicked on ‘help’  Clicked on ‘settings’  Clicked on ‘logout’ | User is redirected to home page (index.php)  User is redirected to home page (index.php)  User is redirected to the view statistics page (report.php)  Nothing happens  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | User is redirected to home page (index.php)  User is redirected to home page (index.php)  User is redirected to the view statistics page (report.php)  Nothing happens  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | None |
| Settings page (timer) loads correctly | User clicks on settings | Settings page (timer) is shown. All links are shown and redirect the user to the correct pages. The user’s current settings should be shown/automatically entered in the form. If the user has selected the countup timer, the settings for the countdown timer isn’t shown. If the user has selected the countdown timer, the settings associated with it should be shown. | Settings page (timer) is shown. All links are shown and redirect the user to the correct pages. The user’s current settings should be shown/automatically entered in the form. If the user has selected the countup timer, the settings for the countdown timer isn’t shown. If the user has selected the countdown timer, the settings associated with it should be shown. | None |
| Settings page (timer) – navigation bar | Clicked on logo  Clicked on ‘Home’  Clicked on ‘View Statistics’  Clicked on ‘help’  Clicked on ‘settings’  Clicked on ‘logout’ | User is redirected to the home page (index.php)  User is redirected to the home page (index.php)  User is redirected to the view statistics page (report.php)  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | User is redirected to the home page (index.php)  User is redirected to the home page (index.php)  User is redirected to the view statistics page (report.php)  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | None |
| Settings page (timer) – timer type select | Clicked on radio button next to ‘count up timer’  Clicked on radio button next to ‘count down timer’ | The settings related to the countdown timer is hidden if it is not already. If it is already hidden, clicking the radio button does nothing.  The settings related to the countdown timer is shown (countdown timer length, timer ring and timer notifications) if it isn’t already. If it is already shown, clicking the radio button does nothing. | The settings related to the countdown timer is hidden if it is not already. If it is already hidden, clicking the radio button does nothing.  The settings related to the countdown timer is shown (countdown timer length, timer ring and timer notifications) if it isn’t already. If it is already shown, clicking the radio button does nothing. | None |
| Settings page (timer) – countdown timer length input | 999999999999999999999999999 minutes  9999999 minutes  90 minutes  10 minutes  1 minute  0 minutes  -1 minutes  +1  ++1  --1  a (and any other non-numerical character)  (blank) | Error message displays. The countdown timer length is not changed.  Error message displays. The countdown timer length is not changed.  The countdown timer length has changed to 90 minutes. On the timer page (work.php) the timer is shown to be 01:30:00  The countdown timer length has changed to 10 minutes. On the timer page (work.php) the timer is shown to be 00:10:00  The countdown timer length has changed to 1 minute. On the timer page (work.php) the timer is shown to be 00:01:00  Error message “Value must be greater or equal to 1” displays. The countdown timer length is not changed.  Error message “Value must be greater or equal to 1” displays. The countdown timer length is not changed.  The countdown timer length has changed to 1 minute. On the timer page (work.php) the timer is shown to be 00:01:00  Error message “Please enter a number” displays. The countdown timer length is not changed.  “Please fill in this field” error message appears. User cannot save changes without filling in the form. | The countdown timer length is changed. On the timer page (work.php) the timer is shown to be 1.6666666666667E+25:00:00  The countdown timer length is changed. On the timer page (work.php) the timer is shown to be 166666:38.999999999651:00  The countdown timer length has changed to 90 minutes. On the timer page (work.php) the timer is shown to be 01:30:00  The countdown timer length has changed to 10 minutes. On the timer page (work.php) the timer is shown to be 00:10:00  The countdown timer length has changed to 1 minute. On the timer page (work.php) the timer is shown to be 00:01:00  Error message “Value must be greater or equal to 1” displays. The countdown timer length is not changed.  Error message “Value must be greater or equal to 1” displays. The countdown timer length is not changed.  The countdown timer length has changed to 1 minute. On the timer page (work.php) the timer is shown to be 00:01:00  Error message “Please enter a number” displays. The countdown timer length is not changed.  All non-numerical characters except for ‘e’, ‘.’, ‘-‘ and ‘+’ can be inputted into the input box.  “Please fill in this field” error message appears. User cannot save changes without filling in the form. | Ensure that large values cannot be used as the timer’s length |
| Settings page (timer) – countdown timer ring select | User clicks on the countdown timer ring checkbox to select it  User clicks on the countdown timer ring checkbox to deselect it | A check appears in the checkbox  The check disappears in the checkbox | A check appears in the checkbox  The check disappears in the checkbox | None |
| Settings page (timer) – countdown timer notification select | User clicks on the countdown timer notification checkbox to select it  User clicks on the countdown timer notification checkbox to deselect it | A check appears in the checkbox  The check disappears in the checkbox | A check appears in the checkbox  The check disappears in the checkbox | None |
| Settings page (timer) – save changes button | User clicks on the save changes button | When the button is clicked, the user’s settings are updated from an XML file and the message “Changes saved successfully!” appears. | When the button is clicked, the user’s settings are updated from an XML file and the message “Changes saved successfully!” appears. | None |
| Settings page (timer) – go back button | User clicks on the ‘go back’ button | User is redirected to the home page (index.php) | Button doesn’t redirect user to the home page | Ensure that the button works. |
| Settings page (timer) – link to settings page (account) | User clicks on the ‘manage account’ link | User is redirected to the settings (timer) page (settings\_account.php) | User is redirected to the settings (timer) page. (settings\_account.php) | None. |
| Settings page (timer) – link to settings page (subject/task list) | User clicks on the ‘manage subject/task’ link | User is redirected to the settings (subject/task) page (settings\_list.php) | User is redirected to the settings (subject/task) page (settings\_list.php) | None |
| Settings page (account) loads correctly | User clicks on the settings (account) link | All links, text and input boxes are displayed correctly. The user’s current username and display name are shown in the input boxes. Nothing should be in the password input boxes. | All links, text and input boxes are displayed correctly. The user’s current username and display name are shown in the input boxes. Nothing is the password input boxes. | None |
| Settings page (account) – navigation bar | Clicked on logo  Clicked on ‘Home’  Clicked on ‘View Statistics’  Clicked on ‘help’  Clicked on ‘settings’  Clicked on ‘logout’ | User is redirected to the home page (index.php)  User is redirected to the home page (index.php)  User is redirected to the view statistics page (report.php)  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | User is redirected to the home page (index.php)  User is redirected to the home page (index.php)  User is redirected to the view statistics page (report.php)  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | None |
| Settings page (account) – username input | Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa  Alex  Alex1  Bob (another user’s username) | Error message displays. The user’s username is not changed.  The user’s username is changed to Alex and the message “Username changed to Alex” appears  The user’s username is changed to Alex1 and the message “Username changed to Alex1” appears  Error message displays. The user’s username is not changed. | The user’s username is changed  and the message “Username changed to Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa  ” appears  The user’s username is changed to Alex and the message “Username changed to Alex” appears  The user’s username is changed to Alex1 and the message “Username changed to Alex1” appears  The user’s username is changed to Bob and the message “Username changed to Bob” appears | Ensure user cannot change their username to long usernames and identical usernames. |
| Settings page (account) – password inputs | Current password: abcde  New password: 12345  Confirm password: 12345  Current password: abcde  New password: abcde  Confirm password: abcde  Current password: abcde  New password: (blank)  Confirm password: (blank)  Current password: abcde  New password: 12345  Confirm password: (blank)  Current password: abcde  New password: (blank)  Confirm password: 12345  Current password: abcde  New password: 1234  Confirm password: 1234  Current password: abcde  New password: password  Confirm password: passw  Current password: abcde  New password: Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa  Confirm password: Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa | The user’s password is changed to 12345 and the message “Password changed successfully” appears  Nothing is changed. The message “Old and new passwords are the same” appears.  Nothing is changed. The message “To change your password, please input in all password fields”  Nothing is changed. The message “To change your password, please input in all password fields”  Nothing is changed. The message “To change your password, please input in all password fields”  Nothing is changed. The message “Please match the format requested. 5 characters minimum” appears  Nothing is changed. The message “New passwords do not match. Please retype your passwords carefully” appears.  Nothing is changed. The message “New password is too long” appears. | The user’s password is changed to 12345 and the message “Password changed successfully” appears  Nothing is changed. The message “Old and new passwords are the same” appears.  Nothing is changed. The message “To change your password, please input in all password fields”  Nothing is changed. The message “To change your password, please input in all password fields”  Nothing is changed. The message “To change your password, please input in all password fields”  Nothing is changed. The message “Please match the format requested. 5 characters minimum” appears  Nothing is changed. The message “New passwords do not match. Please retype your passwords carefully” appears.  The user’s password is changed to Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa and the message “Password changed successfully” appears | Ensure that user cannot change their password to long passwords. |
| Settings page (account) –display name input | Alexa  1111111111  Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa | The user’s display name is changed to Alexa and the message “Display name is changed to Alexa” appears  The user’s display name is changed to 1111111111 and the message “Display name is changed to 1111111111” appears  Error message displays. The user’s display name is not changed. | The user’s display name is changed to Alexa and the message “Display name is changed to Alexa” appears  The user’s display name is changed to 1111111111 and the message “Display name is changed to 1111111111” appears  The user’s display name is changed to Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa  and the message “Display name is changed to Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa  ” appears | Ensure that user cannot change their display name to long display names. |
| Settings page (account) – delete account link | User clicks on the ‘delete my account’ link and enters in the correct password  User clicks on the ‘delete my account’ link and enters in the incorrect password  User clicks on the ‘delete my account’ link and clicks cancel | An alert appears with the message “Are you sure you want to delete your account? This action cannot be reversed! Too proceed, please type in your password:” After entering the correct password, the account is deleted.  An alert appears with the message “Are you sure you want to delete your account? This action cannot be reversed! Too proceed, please type in your password:” After entering the incorrect password, the alert disappears and nothing happens  An alert appears with the message “Are you sure you want to delete your account? This action cannot be reversed! Too proceed, please type in your password:” After clicking cancel, the alert disappears and nothing happens | An alert appears with the message “Are you sure you want to delete your account? This action cannot be reversed! Too proceed, please type in your password:” After entering the correct password, the alert disappears and the message “deleting (user ID)” is shown  An alert appears with the message “Are you sure you want to delete your account? This action cannot be reversed! Too proceed, please type in your password:” After entering the incorrect password, the alert disappears and nothing happens  An alert appears with the message “Are you sure you want to delete your account? This action cannot be reversed! Too proceed, please type in your password:” After clicking cancel, the alert disappears and nothing happens | Ensure that the temporary placeholder “deleting (user ID)” is removed and replaced with the proper code. |
| Settings page (account) – save changes button | User has changed username  User has changed password  User has changed display name | Any details the user has changed is updated and the relevant messages appear.  “Username changed to Alexa” message appears  “Password changed sucessfully” message appears  “Display name changed to Alexa” message appears | Any details the user has changed is updated and the relevant messages appear.  “Username changed to Alexa” message appears  “Password changed sucessfully” message appears  “Display name changed to Alexa” message appears |  |
| Settings page (account) – go back button | User clicks on the ‘go back’ button | User is redirected to the settings (timer) page (settings.php) | User is redirected to the settings (timer) page (settings.php) | None |
| Settings page (subject/task) loads correctly | User has no subject/tasks  User has subject/tasks | Error message “You haven’t added any subjects/tasks yet!” appears  All subject/tasks are displayed correctly in three columns with a delete button next to each one. The sorting selection is also displayed correctly. | Error message “You haven’t added any subjects/tasks yet!” appears  All subject/tasks are displayed correctly in three columns with a delete button next to each one. The sorting selection is also displayed correctly. | None |
| Settings page (subject/task) – navigation bar | Clicked on logo  Clicked on ‘Home’  Clicked on ‘View Statistics’  Clicked on ‘help’  Clicked on ‘settings’  Clicked on ‘logout’ | User is redirected to the home page (index.php)  User is redirected to the home page (index.php)  User is redirected to the view statistics page (report.php)  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | User is redirected to the home page (index.php)  User is redirected to the home page (index.php)  User is redirected to the view statistics page (report.php)  User is redirected to the help page (help.php)  User is redirected to the settings (timer) page (settings.php)  User is logged out and redirected to the login page (login.php) | None |
| Settings page (subject/task) – editing subject/task names using input box | Changed ‘Maths’ to ‘Maths Methods’  Changed ‘Maths’ to ‘Maths’  Changed ‘Maths’ to ‘Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa’  Changed ‘Maths’ to ‘(blank)’ | Subject/task’s name is changed. The message “updated Maths to Maths Methods” appears  Nothing happens.  Nothing is changed. The message “subject name is too long” appears.  Nothing is changed. The message “no name was entered” appears. | Subject/task’s name is changed. The message “updated Maths to Maths Methods” appears  Nothing happens.  Nothing is changed. The message “subject name is too long” appears.  Nothing is changed. The message “no name was entered” appears. | None |
| Settings page (subject/task) – delete subject/task button | Clicked on delete button next to ‘Maths’ | Alert displays with the message “Delete Maths?”. If user clicks on ‘ok’, the alert disappears and Maths is deleted. If user clicks ‘cancel’, the alert disappears and nothing is deleted. | Alert displays with the message “Delete Maths?”. If user clicks on ‘ok’, the alert disappears and Maths is deleted. If user clicks ‘cancel’, the alert disappears and nothing is deleted. | None |
| Settings page (subject/task) – sorting selection | Selected ‘No sorting’.  Selected ‘Name: A - Z’  Selected ‘Name: Z - A’  Selected ‘Time: highest – lowest’  Selected ‘Time: lowest - highest’ | The subject/task list is sorted in historical order (oldest to newest). When refreshed, or when the user leaves the page and comes back, ‘no sorting’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted in alphabetical order (A – Z) and is case insensitive. When refreshed, or when the user leaves the page and comes back, ‘Name: A – Z’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted in alphabetical order (Z - A) and is case insensitive. When refreshed, or when the user leaves the page and comes back, ‘Name: Z - A’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted by its time value from highest to lowest. When refreshed, or when the user leaves the page and comes back, ‘Time: highest – lowest’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted by its time value from lowest to highest. When refreshed, or when the user leaves the page and comes back, ‘Time: lowest - highest’ is still selected and is still applied to the subject/task list. | The subject/task list is sorted in historical order (oldest to newest). When refreshed, or when the user leaves the page and comes back, ‘no sorting’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted in alphabetical order (A – Z) and is case insensitive. When refreshed, or when the user leaves the page and comes back, ‘Name: A – Z’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted in alphabetical order (Z - A) and is case insensitive. When refreshed, or when the user leaves the page and comes back, ‘Name: Z - A’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted by its time value from highest to lowest. When refreshed, or when the user leaves the page and comes back, ‘Time: highest – lowest’ is still selected and is still applied to the subject/task list.  The subject/task list is sorted by its time value from lowest to highest. When refreshed, or when the user leaves the page and comes back, ‘Time: lowest - highest’ is still selected and is still applied to the subject/task list. | None |
| Settings page (subject/task) – save changes button | Changed ‘Maths’ to ‘Maths Methods’, ‘Subject 1’ to ‘English’, and ‘history’ to ‘History’  Changed ‘Maths’ to ‘Maths’  Changed ‘Maths’ to ‘Aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa’  Changed ‘Maths’ to ‘(blank)’ | Subject/task’s name is changed. The message “updated Maths to Maths Methods”, “updated Subject 1 to English” and “updated history to History” appears  Nothing happens.  Nothing is changed. The message “subject name is too long” appears.  Nothing is changed. The message “no name was entered” appears. | Subject/task’s name is changed. The message “updated Maths to Maths Methods”, “updated Subject 1 to English” and “updated history to History” appears  Nothing happens.  Nothing is changed. The message “subject name is too long” appears.  Nothing is changed. The message “no name was entered” appears. | None |
| Settings page (subject/task) – go back button | User clicks on the ‘go back’ button | User is redirected to the settings (timer) page (settings.php) | User is redirected to the settings (timer) page (settings.php) | None |