|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Data type** | **Length** | **Default value** | **Key** | **Required?** | **Validation** | **Description** | **Sample** |
| ID | Integer | 8 |  | Primary key | True |  | User’s ID | 10 |
| username | VARCHAR | 15 |  |  | True |  | Username | Alexiscool |
| password | VARCHAR | 25 |  |  | True | ≥ 5 characters long | Password | Abcde |
| name | VARCHAR | 15 |  |  | False |  | User’s given name | Alex |
| timerType | Boolean | 1 | 1 |  | True | 0 or 1 | Use a countdown timer?  1 = true, 0 = false  (if false, a count up timer is used instead) | 1 |
| timerNotif | Boolean | 1 | 1 |  | True | 0 or 1 | Timer sound on?  1 = true, 0 = false | 1 |
| timerLen | Integer | 3 | 30 |  | False | > 0 | Length of countdown timer in minutes | 30 |

Data dictionary for users database

Data dictionary for subject/tasks database

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Data type** | **Length** | **Default value** | **Key** | **Required?** | **Validation** | **Description** | **Sample** |
| subID | Integer | 8 |  | Primary key | True |  | Subject/task’s ID | 1 |
| subject | VARCHAR | 25 |  |  | True |  | Subject/task’s name | English |
| userID | Integer | 8 |  | Foreign key (ID from users table) | True |  | ID of user with the subject/task | 10 |
| date | date | 10 | Current date |  | True | ≤ current date | Date when subject is created or when time is recorded | 2018-05-15 |
| time | VARCHAR | 5 | 0 |  | True | ≥ 0 | Time spent on subject/task in minutes | 45 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name**  Object description | **Caption/display** | **Location** | **Visible?** | **Colour** | **Background colour** | **Size** | **Font** | **Description** |
| Username text input | Username | Login page, register page | True | Grey |  | Medium sized | Arial | Allows users to input their username |
| Password text input | Password | Login page, register page | True | Grey |  | Medium sized | Arial | Allows users to input their password |
| Log in button | LOG IN | Login page, register page | True | White | Blue | Medium sized | Arial | Checks if username and password matches the database records, creates a new session, redirects users to main page  If the button is on the register page, it first makes a new record in the database. |
| Register link | Create an account | Login page | True | Navy blue |  | Medium sized | Arial | Links to login page |
| Login link | User login | Register page | True | Navy blue |  | Medium sized | Arial | Redirects to register page |
| Free timing mode link | Free timing mode | Main page | True | Navy blue |  | Medium sized | Arial | Redirects to timer page but doesn’t record the length of time for a specific subject/task |
| Subject/task buttons |  | Main page | True | Blue-grey | Light grey | Medium sized | Arial | Selects a subject/task and links to timer page |
| Add new subject/task text input | + Add new subject/task | Main page | True | Grey |  | Small sized | Arial | Allows users to input new subjects/tasks |
| Add new subject/task button |  | Main page, settings – manage subjects/tasks page | False |  |  |  |  | Adds a new subject/task to database |
| Delete subject/task image button | (image of red cross) | Main page, settings – manage subjects/tasks page | True |  |  | Medium sized |  | Deletes a subject/task from database |
| Clock | (current time) | Main page | True | Dark navy blue |  | Extra large sized | Calibri Light | A functional (animated) clock |
| Current date | (current date today) | Main page | True | Dark navy blue |  | Medium-large sized | Arial | Displays the current date |
| Logo image link | (image of logo) | All pages except for login/register page | True | White |  | Medium-large sized |  | Redirects to main page |
| Home (main) page link | Home | All pages except for login/register page | True | White |  | Medium sized | Calibri Light | Redirects to main page |
| Report (view statistics) page link | View statistics | All pages except for login/register page | True | White |  | Medium sized | Calibri Light | Redirects to report (view statistics) page |
| Help page link | Help | All pages except for login/register page | True | White |  | Medium sized | Calibri Light | Redirects to help page |
| Settings page link | Settings | All pages except for login/register page | True | White |  | Medium sized | Calibri Light | Redirects to settings page |
| Logout link | Logout | All pages except for login/register page | True | White |  | Medium sized | Calibri Light | Destroys session, redirects user to login page |
| Timer | (timer) | Timer pages | True | Dark navy blue |  | Extra-extra-large sized | Calibri Light | A functional count up/count down timer |
| Timer start button | Start | Timer pages | True | White | Green | Medium-large sized | Arial | Starts or resumes the timer |
| Timer stop button | Stop | Timer pages | True | White | Red | Medium-large sized | Arial | Pauses the timer |
| Reset timer button | Reset | Timer pages | True | White | Dark navy blue | Medium-large sized | Arial | Pauses and resets the timer back to its default value |
| Timer done button | Done! | Timer pages, timer done page | True | White | Dark navy blue | Medium-large sized | Arial | Redirects to timer done page |
| Timer confirm button | Yes | Timer done page | True | White | Green | Medium-large sized | Arial | Saves the time spent on subject/task to database |
| Length spent number input |  | Timer done page | True | White | Dark navy blue | Medium sized | Arial | Allows user to manually input the time spent on subject/tasks |
| Length spent button |  | Timer done page | False |  |  |  |  | Saves user inputted length of time in database |
| Go back to timer button | Go back to timer | Timer done page | True | White | Dark navy blue | Medium-large sized | Arial | Redirects back to the timer page |
| Go back button | Go back | Report (view statistics) page, help page, all settings pages | True | White | Blue | Medium sized | Arial | Redirects to main page  (or to the settings page if the button is located on the settings – manage account page or on the settings – manage subjects/tasks) |
| Timer type radio button |  | Settings | True | Grey |  | Medium sized |  | Allows user to select between the timer types |
| Timer length number input |  | Settings | True | Grey |  | Medium sized |  | Allows user to select the countdown timer length |
| Timer notification checkbox |  | Settings | True | Grey |  | Medium sized |  | Allows user to select whether they want a sound to be played when the timer runs out. |
| Manage account link | Manage account | Settings page | True | Navy blue |  | Medium sized | Arial | Redirects to settings – manage account page |
| Username text input |  | Settings – manage account | True | Grey |  | Medium sized | Arial | Allows users to input their username |
| Password text input |  | Settings – manage account | True | Grey |  | Medium sized | Arial | Allows users to input their password |
| Confirm password text input |  | Settings – manage account | True | Grey |  | Medium sized | Arial | Allows users to reinput their password for confirmation |
| Display name text input |  | Settings – manage account | True | Grey |  | Medium sized | Arial | Allows users to input their display name |
| Manage subjects/tasks link | Manage subjects/tasks | Settings page | True | Navy blue |  | Medium sized | Arial | Redirects to settings – manage subjects/tasks page |
| Subject/task text input |  | Settings – manage subjects/tasks page | True | Blue |  | Medium sized | Arial | Allows user to change the name of the subject/task |
| Add new subject/task text input | + Add new subject/task | Settings – manage subjects/tasks page | True | Blue |  | Small sized | Arial | Allows users to input new subjects/tasks |
| Save changes button | Save changes | All setting pages | True | White | Blue | Medium sized | Arial | Saves changes to database |