Contents

Data requirements

In this section I will be documenting all the data requirements.

Data dictionary

"user_tbl" table

Field name	Data type	Field size	Data format	Keys and constraints	Description	Example
user_id	Integer	100	x...	Primary key; Unique; Auto Increment; Not null	The id of the users account	10
Username	String/text	15	-	Unique; Not null	The username of the users account	Example_user
Email	String/text	30	test@gmail.com	Not null	The email of the user account	test@gmail.com
Password	String/text	30	-	Not null	The password of the users account	Password123#

For user_tbl, I have made a user_id which gives each user account its separate number so that it does not all merge and this is given by the database. The username which is the value that is going to be saved to the session dictionary and will be used to query the database to get the user account information. The email is there and can be used as a security measure in the future but also it will help for the company to be able to contact the person who is trying to hire something from them. and then also the password for obvious reasons.

"admin_tbl" table

Field name	Data type	Field size	Data format	Keys and constraints	Description	Example
Admin_id	Integer	6	X...	Primary key; Unique; Not null	The employee ID of the admins account	234123

Username	String/text	15	-	Unique; Not null	The username of the users account	Example_user
Email	String/text	30	test@gmail.com	Not null	The email of the user account	test@gmail.com
Password	String/text	30	-	Not null	The password of the users account	Password123#

Admin is pretty much the exact same as user but instead of the database giving the admin an automated number for there id it will be their employee id.

"hire_tbl" table

Field name	Data type	Field size	Data format	Keys and constraints	Description	Example
Hire_id	Integer	100	x...	Primary key; Unique; Auto increment; Not null	The id of the equipment hires	10000
User_id	Integer	100	x...	Foreign key; Not null	The id of the user account who is making the booking	25
Hire_start_date	String/text	10	YYYY/MM/DD	Not null	The hire start date	2024/12/15
Hire_end_date	String/text	10	YYYY/MM/DD	Not null	The hire end date	2024/12/21
Length_of_hiring	String/text	2	X...	Not null	How long they are hiring it	6

For hire_tbl, I have the hire_id which is automatically along with the user id in order to track down the user that is used to make the hire. I had the hire_start_date and hire_end_date to see when they would like the equipment and when they want it to, I also have length_of_hiring just so you can see length of the hiring.

"Elevated_Platform_tbl" table

Field name	Data type	Field size	Data format	Keys and constraints	Description	Example
Platform_id	Integer	3	x...	Primary key; Unique; Auto increment; Not null	The id of the piece of equipment	200
Admin_id	Integer	6	x..	Foreign key; Not null	The employee id of the admin account who is uploading the information	234123

Image_file	String/text	60	-		The file of the image to be displayed	Example_url.png
Title	String/text	30	-	Unique; Not null	The title of the equipment	Scissor lift
Preview_desc	String/text	200	-	Unique; Not null	A small bit of the description of the equipment that will be displayed	Scissor skyjack **8m Electric Scissor Lift Power Source:** Electric **Max working height:** 7.47m **Weight Capacity:** 227kg **Overall Length:** 1.80m **Overall Width:** 0.81m
Full_desc	String/text	800	-	Unique; Not null	The full description which may include files about the equipment being added	3219-spec-sheet-word-version-v2.pdf

For Elevated_Platform_tbl, I have the platform_id which is automatically assigned along with the id of the admin who is adding the equipment so then the admin can also be found if they enter something incorrectly. I have the image_file which is where the admin uploads an image file which can be null. There is also the title, preview_desc which is a small description and full_Desc which is the full description, these are here because the title will be used as the title of the equipment card, the preview_desc will be used as a small description that appears on the card and the full description will be what the user see when they click on the card and then more information comes up.

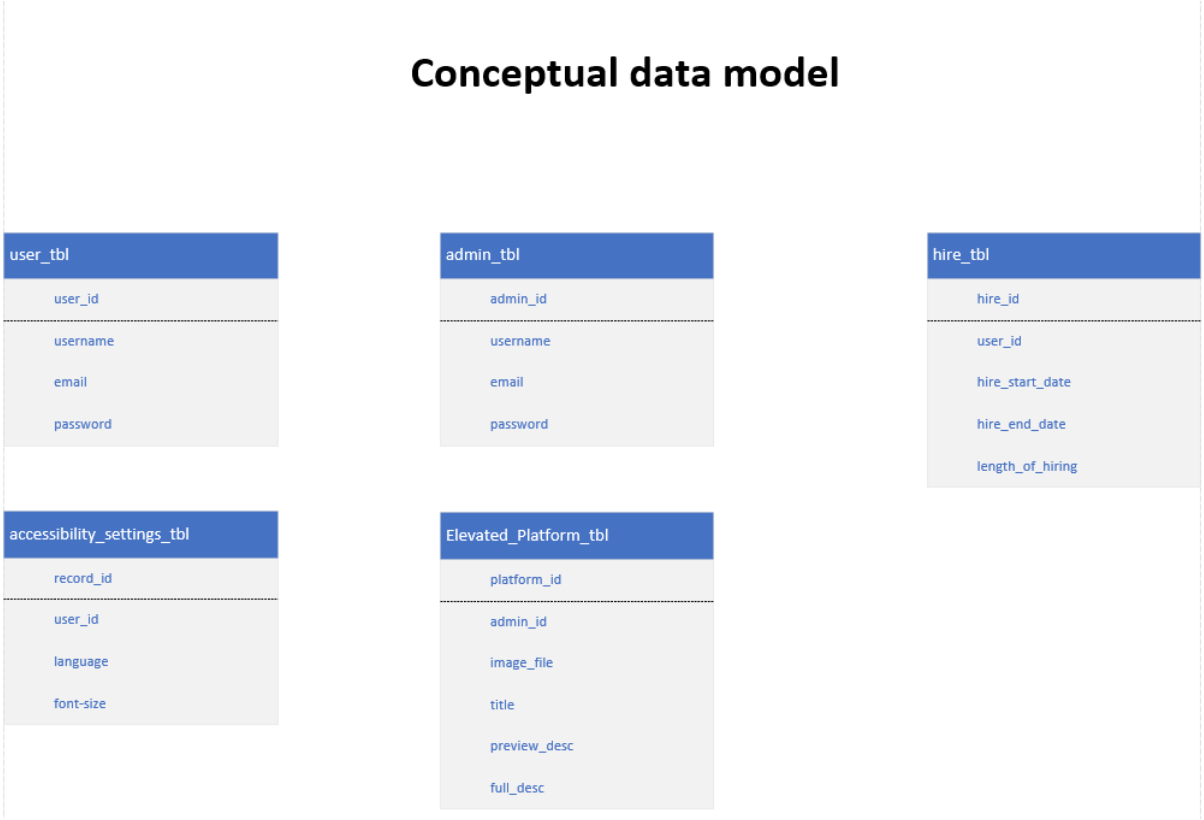
"accessibility_settings_tbl" table

Field name	Data type	Field size	Data format	Keys and constraints	Description	Example
Record_id	Integer	11	x...	Primary key; Unique; Auto increment; Not null	The id of the record	100
User_id	Integer	100	x...	Foreign key; Not null	The id of the user account who is making the accessibility changes	25
Language	String/text	40	-		The language preference of the website for the user	Spanish

Font_size	Integer	2	x...		The font size preference of the content on the website	28

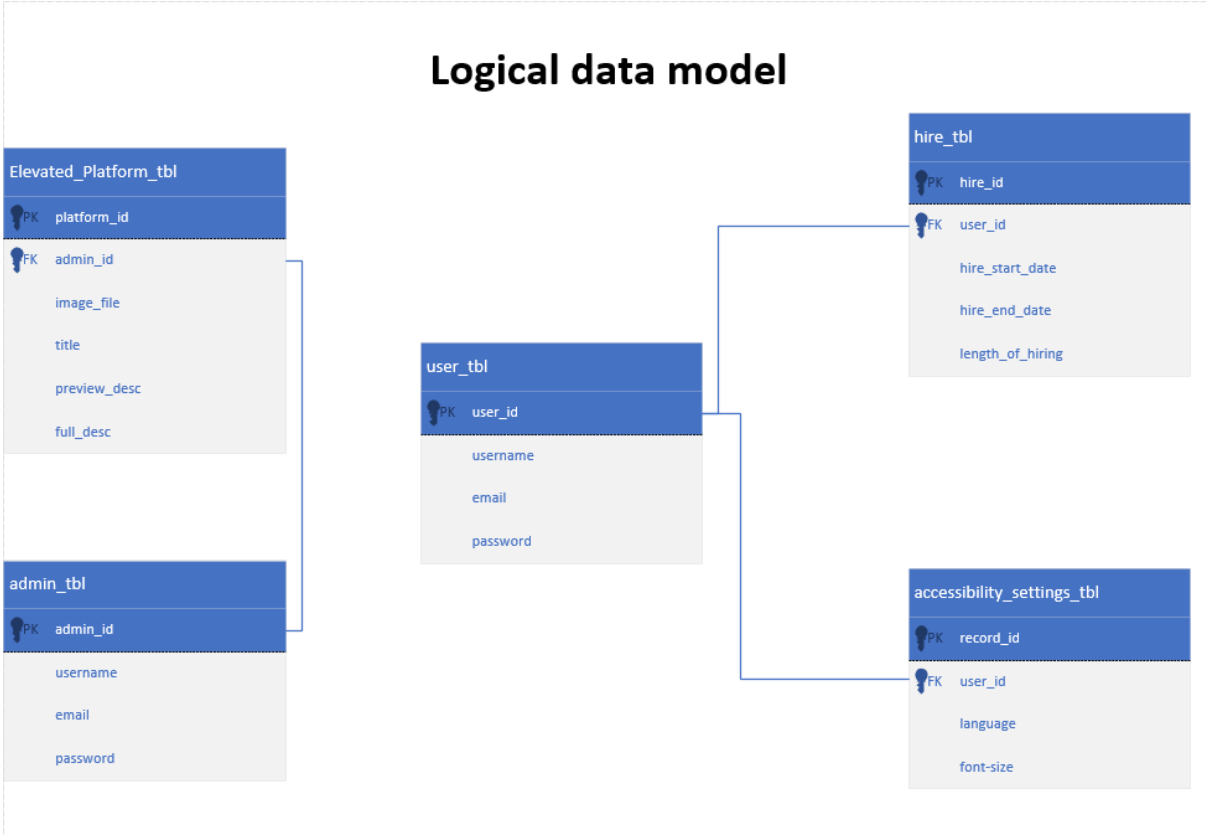
For accessibility_settings_tbl, I have got the record_id just to make it easier to find with the user_id which is used to identify the account of the user who applied the settings to the correct user account. I have got the language column which will have the use of the google translate API widget to save the users preferred language (if google allows). And I have the font size which will save the font size for the website by getting the value the user has inputted and then apply it to the website.

Conceptual data model



The conceptual data model is a visual display of the data dictionary without the keys.

Logical data model



In this model, the user_id column from user_tbl is used as a foreign key in accessibility_settings_tbl and hire_tbl. It is used as the identifier of the user which can then be used to get additional information about the user such as email and username. The admin_id from admin_tbl is used within Elevated_Platform_tbl as a way to know which admin has added what to the website.