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# 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](mailto:test@gmail.com) | Not null | The email of the user account | [test@gmail.com](mailto: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](mailto:test@gmail.com) | Not null | The email of the user account | [test@gmail.com](mailto: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](https://uphireuk.com/wp-content/uploads/2022/09/3219-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

A screenshot of a computer

Description automatically generated

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

## Logical data model

A screenshot of a computer

Description automatically generated

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.