

Documentation for Financial Transactions HTML Page
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Contents

1	HTML	1
1.1	Preamble and head	1
1.1.1	Preamble	1
1.1.2	meta charset	1
1.1.3	link rel="stylesheet"	1
1.1.4	Scripts	1
1.2	Inputs	1
1.2.1	Labels	2
1.2.2	Date	2
1.2.3	Text	2
1.2.4	List	2
1.2.5	Buttons	2
1.3	Table	3
1.3.1	thead	3
1.3.2	tbody	3
2	Main Javascript	4
2.1	getData()	4
2.2	validate()	4
2.2.1	Check empty	4
2.2.2	Check NaN	4
2.2.3	Check date	4
2.3	generateId()	4
2.4	calculateCostBasis()	4
2.5	addTransaction()	4
2.6	deleteRow()	4
2.7	editRow()	4
2.8	saveChanges()	4
2.9	discardChanges()	4
2.10	sortTable()	4
3	CSS	5
3.1	Vertical Scrolling Table	5
3.2	Horizontal Scrolling on Overflow	5
3.3	Miscellaneous	5
3.3.1	Sort buttons	5
3.3.2	Editing highlight	5
3.3.3	Table borders	5

1 HTML

1.1 Preamble and head

1.1.1 Preamble

Declares the document as HTML5.

```
1 <!DOCTYPE html>
```

1.1.2 meta charset

Specifies that characters in the file are encoded in UTF-8.

```
4 <meta charset = "UTF-8"/>
```

1.1.3 link rel="stylesheet"

Imports the CSS file.

```
5 <link rel="stylesheet" type="text/css" href="./style.css"/>
```

1.1.4 Scripts

Imports the main Javascript file, responsible for the table and UI.

```
7 <script src="./script.js"></script>
```

Imports the Google API library.

```
8 <script src="https://apis.google.com/js/api.js"></script>
```

Imports other Javascript files, responsible for database management.

```
9 <script src="./googleApiScript.js"></script>
10 <script src="./mysqlScript.js"></script>
11 <script src="./localStorageScript.js"></script>
12 <script src="./imageFirestore.js"></script>
```

1.2 Inputs

Disables autocomplete which remembers past user input by default. `return false` specifies that no POST request should be made to the server.

```
20 <form onsubmit="return false" autocomplete="off">
```

1.2.1 Labels

Identifies the purpose of the field to the user, allows the user to select the field by clicking the label. This element is also used by accessibility tools to identify the field.

```
22 <label for="date">Date:</label><br/>
```

1.2.2 Date

The `date` input type is supported by most modern browsers and provides an intuitive UI for selecting dates. It also includes methods for converting or verifying the `Date` object.

```
13 <input id="date" name="date" type="date" placeholder="yyyy-mm-dd"/>
```

1.2.3 Text

The `text` input type allows the user to input a string. For numbers, this string has to be parsed in Javascript.

```
28 <input id="account" name="account" list="accountsList" type="text"
    ↪ placeholder="Account Number"/>
```

1.2.4 List

Lists are created using the `select` element, containing `option` elements. Each option has a `value` which is used in Javascript, and `innerText` which is seen by the user.

```
34 <label for="type">Transaction Type:</label><br/>
35 <select id="type" name="type">
36   <option value=""></option>
37   <option value="BUY">BUY</option>
38   <option value="SELL">SELL</option>
39   <option value="!DIVIDEND">DIVIDEND</option>
40   <option value="!INTEREST">INTEREST</option>
41   <option value="!WITHDRAW">WITHDRAW</option>
42   <option value="!DEPOSIT">DEPOSIT</option>
43 </select>
```

1.2.5 Buttons

Buttons with the `submit` type can be used to check that all required sections are complete and highlight them in red. These buttons can also be used to send a `POST` request to a server if desired. The `onclick` attribute specifies the function and parameters that should be executed when pressed.

```
70 <button id="add" type="submit" onclick="addTransactionButton();">Add
    ↪ Transaction</button>
```

1.3 Table

1.3.1 thead

1.3.2 tbody

2 Main Javascript

2.1 `getData()`

2.2 `validate()`

2.2.1 Check empty

2.2.2 Check NaN

2.2.3 Check date

2.3 `generateId()`

2.4 `calculateCostBasis()`

2.5 `addTransaction()`

2.6 `deleteRow()`

2.7 `editRow()`

2.8 `saveChanges()`

2.9 `discardChanges()`

2.10 `sortTable()`

3 CSS

3.1 Vertical Scrolling Table

3.2 Horizontal Scrolling on Overflow

3.3 Miscellaneous

3.3.1 Sort buttons

3.3.2 Editing highlight

3.3.3 Table borders