Documentation for Financial Transactions HTML Page Jason N. June 1, 2020

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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 1 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>
<2 cript 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/>
   <select id="type" name="type">
35
       <option value=""></option>
36
37
       <option value="BUY">BUY</option>
38
       <option value="SELL">SELL</option>
       <option value="!DIVIDEND">DIVIDEND</option>
39
       <option value="!INTEREST">INTEREST</option>
40
       <option value="!WITHDRAW">WITHDRAW</option>
41
       <option value="!DEPOSIT">DEPOSIT</option>
42
43
   </select>
```

1.2.5 File

Files are uploaded using the file input type. The multiple attribute allows the user to upload multiple files, which are interpreted as an array of files in Javascript.

1.2.6 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 specified the function and parameters that should be executed when pressed.

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

→ Transaction</button>
```

1.3 Filters

Filter HTML elements are handled exactly the same as their counterparts in the input section. Some fields have two elements to handle a lower and upper bound, but these are handled solely in Javascript.

1.3.1 Tooltip

The span element is a generic container. The title attribute will display its value as a tool tip when the element is hovered.

1.3.2 Checkbox

The input type checkbox provides a toggleable input field which can be evaluated as true or false with Javascript.

```
| 153 | <label for="filterNa">Filter N/A:</label> | (input id="filterNA" name="filterNA" type="checkbox"/> | |
```

1.4 Options

The options section uses buttons, text inputs, a file input, and drop down menus, which are decribed in the inputs section. The special handling of these elements is done in Javascript.

1.5 Table

1.5.1 thead

1.5.2 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