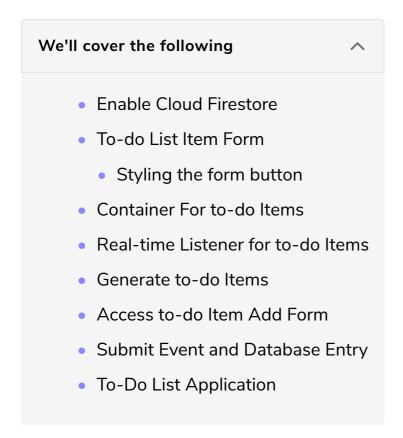
Creating Your First "To-Do" Item

This lesson explains how to add to-do list items to the Cloud Firestore database.



Enable Cloud Firestore

Start by initializing Cloud Firestore in your project. When doing this, please remember that you need to set your security rules to *test mode*. This was covered in the second section of this course if you need a refresher. I will show you how to secure the database in the upcoming lesson **Cloud Firestore security**.

To-do List Item Form

We create a form that will add to-do items.

```
<!-- Dashboard -->
<div id="dashboard" class="hide-when-signed-out">

<div>
<form id="to-do-list-form">
<h1>New task</h1>
<input type="text" id="item" placeholder="Task", required autocom<br/>
<button type="submit">Add</button>
</form>
</div>
```

HTML

Styling the form button

```
#to-do-list-form > button {
    max-width: 150px;
    margin-top: 30px;
}
```

Container For to-do Items

We create an HTML div element that will serve as your injection point for all of your to-do items. We give it an ID of to-do-list-items.

```
<!-- Dashboard -->
                                                                                         6
<div id="dashboard" class="hide-when-signed-out">
        <div>
                <form id="to-do-list-form">
                         <h1>New task</h1>
                         <input type="text" id="item" placeholder="Task" , required autocom</pre>
                         <button type="submit">Add</button>
                </form>
        </div>
        <div>
                <h1>To do list</h1>
                <div id="to-do-list-items"></div>
        </div>
        <div>
                <div id="account">
                         <h1>Account</h1>
                         <button class="auth" auth="sign-out">sign out</button>
                </div>
        </div>
</div>
```

 HTML

Real-time Listener for to-do Items

Setting up the real-time listener right now is a good idea because once to-do items are added, we will see them immediately. We are going to place this real-time listener in the authentication state listener because the script will run once a user is authenticated. We need to know who the user is in order to make this work.

Generate to-do Items

As we loop through our collection, my-list, we will create a paragraph and fill it with text from each document.

JavaScript

Access to-do Item Add Form

Before we can add items, we will need to get access to the form HTML element with the id of to-do-list-form.

```
// Get the to do list form for item submissions
const toDoListForm = document.getElementById('to-do-list-form');

JavaScript
```

Submit Event and Database Entry

In earlier lessons we covered submit events and database entries. The only

difference with the following code is that it's adding a document and setting the

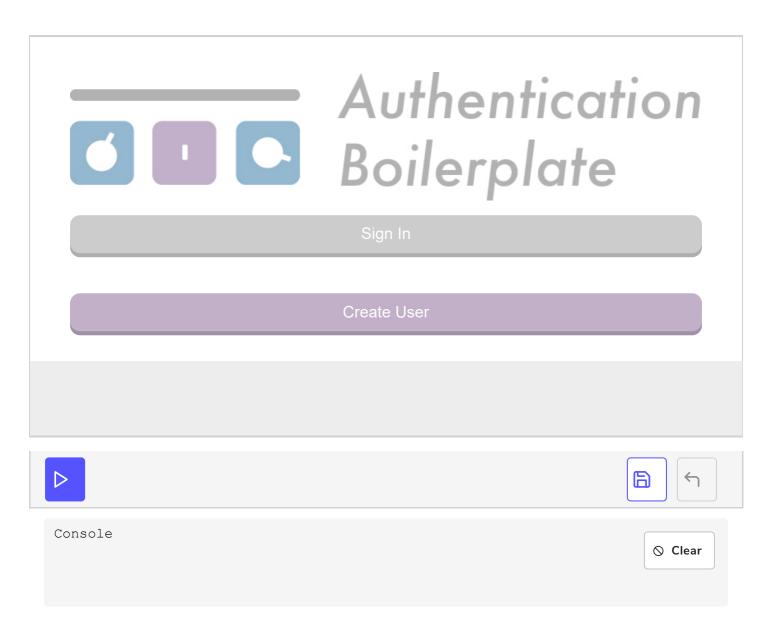
key of the new document as the UID of the user who stores it.

JavaScript

To-Do List Application

Run the code below and add a few to-do items.

This code requires the following API keys to execute:	
apiKey	Not Specified
authDomain	Not Specified
databaseURL	Not Specified
projectId	Not Specified
storageBucket	Not Specified
messagingSenderld	Not Specified
appld	Not Specified
Output	
JavaScript	
	HTML
	CSS (SCSS)



In the next lesson, I will show you how to delete to-do items. Think of removing them from your list as your way of 'completing' them.