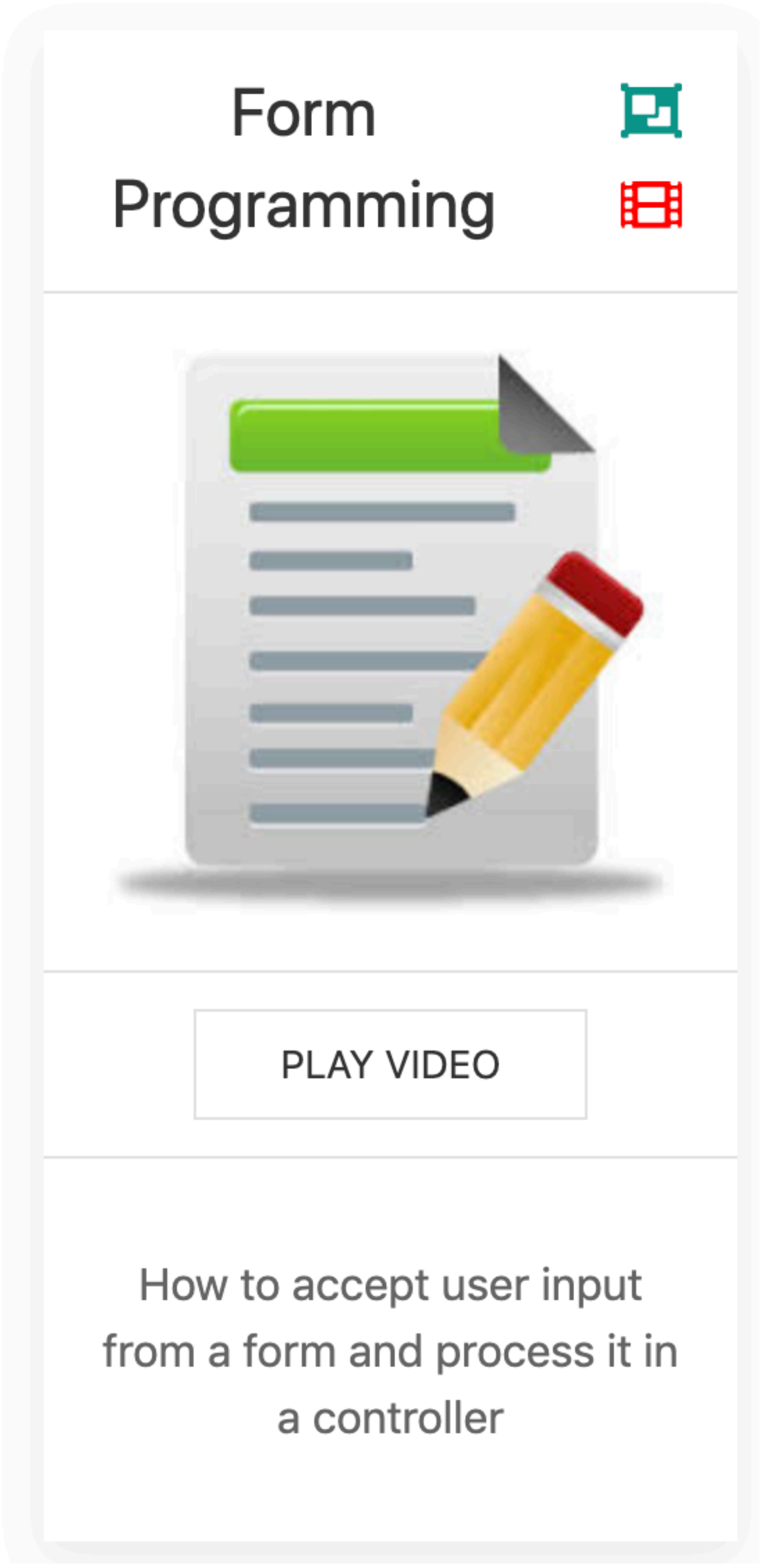
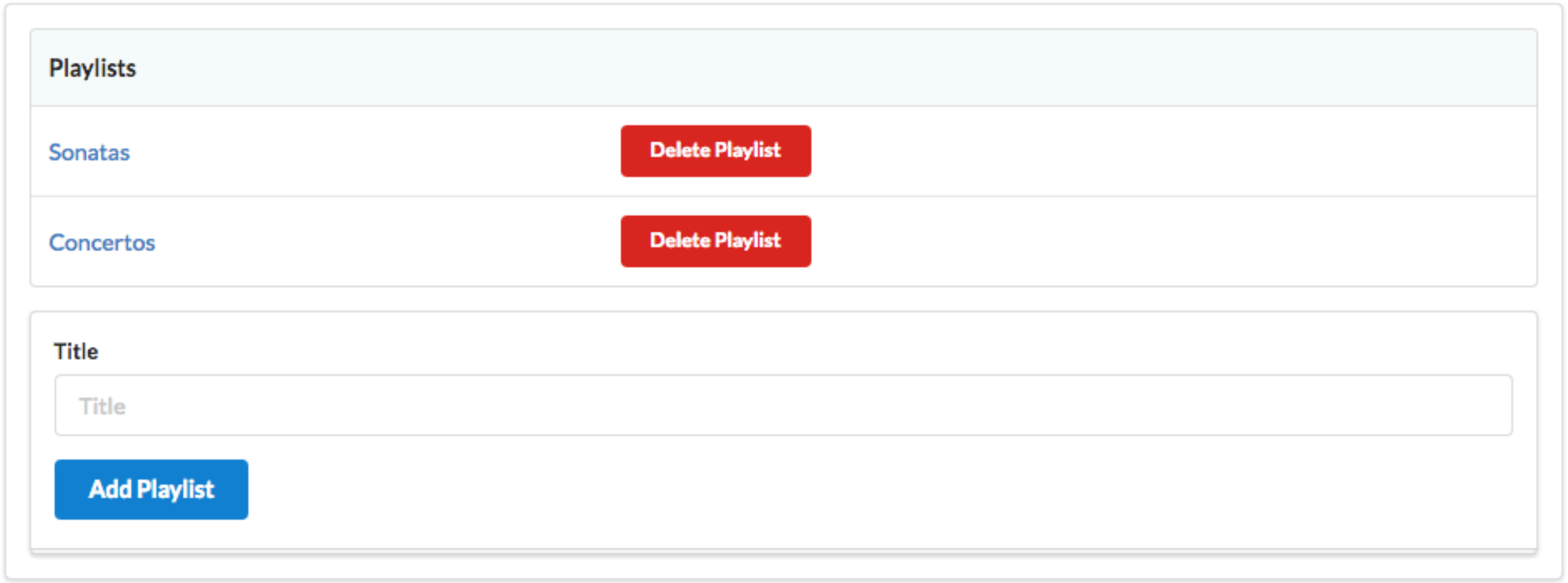
Form Programming


Form Programming

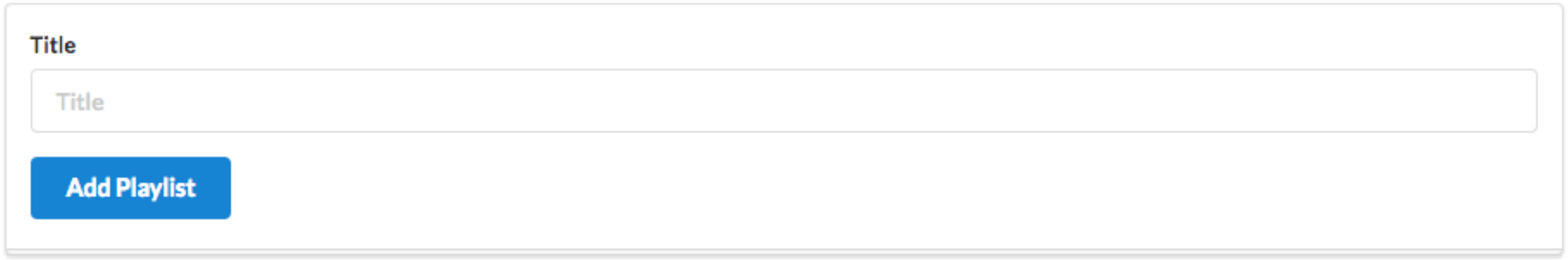
PLAY VIDEO

How to accept user input from a form and process it in a controller

Add a new Playlist



Form to Add a Playlist



```
<form class="ui stacked segment form" action="/dashboard/addplaylist" method="POST">
  <div class="field">
    <label>Title</label>
    <input placeholder="Title" type="text" name="title">
  </div>
  <button class="ui blue submit button">Add Playlist</button>
</form>
```

action ➡ `"/dashboard/addplaylist"`

Field Value ➡ `name="title"`

action $\rightarrow$ `"/dashboard/addplaylist"`

```
...
router.post('/dashboard/addplaylist', dashboard.addPlaylist);
...
```

Router matches to action to a controller method

This method will be called when the ‘Submit’ button is pressed

```
...
router.post('/dashboard/addplaylist', dashboard.addPlaylist);
...
```

controller method to create a new playlist

```
const dashboard = {
  ...

  addPlaylist(request, response) {

    const newPlayList = {
      id: uuid(),
      title: request.body.title,
      songs: [],
    };

    playlistStore.addPlaylist(newPlayList);

    response.redirect('/dashboard');
  },
};
```

Create a playlist object containing

- unique id
- title submitted in request
- empty songs array

```
const dashboard = {
  ...

  addPlaylist(request, response) {

    const newPlayList = {
      id: uuid(),
      title: request.body.title,
      songs: [],
    };

    playlistStore.addPlaylist(newPlayList);

    response.redirect('/dashboard');
  },
};
```

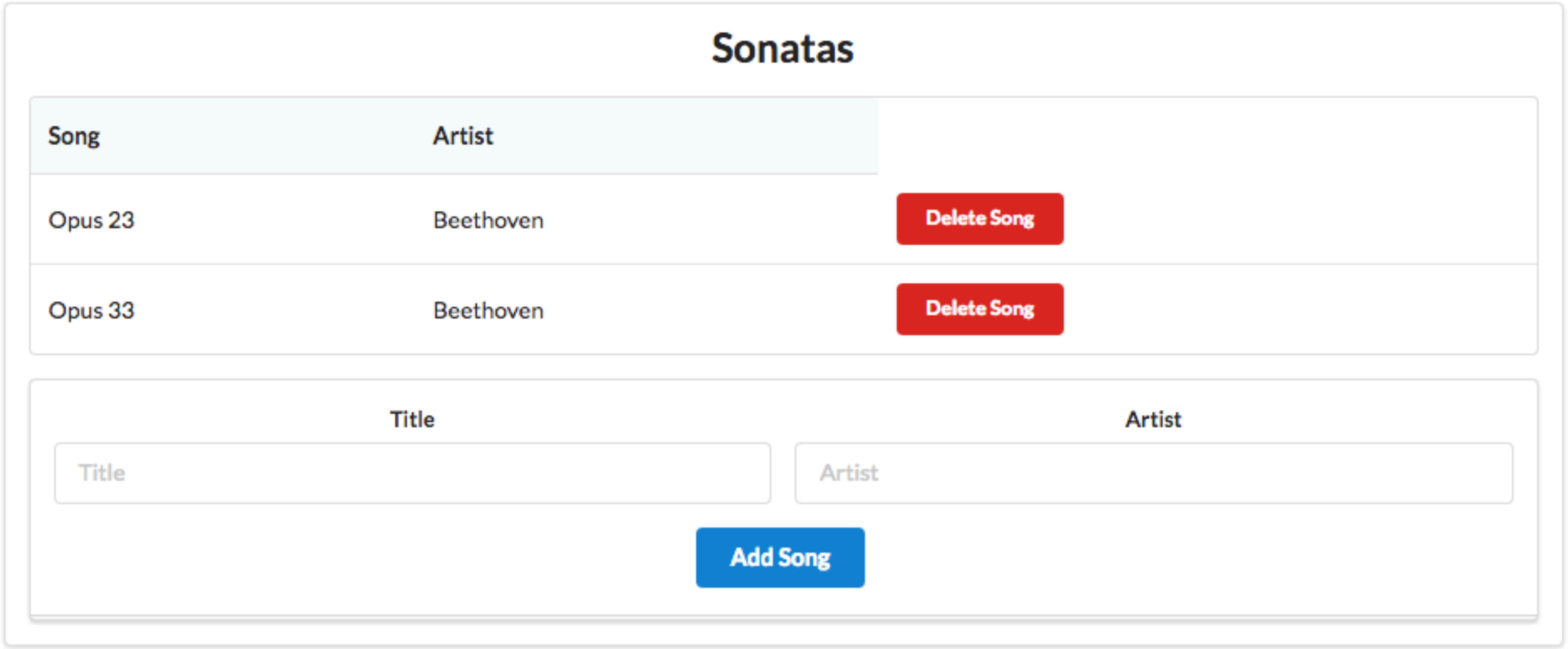
add the new playlist in the store

```
const dashboard = {
  ...

  addPlaylist(request, response) {

    const newPlayList = {
      id: uuid(),
      title: request.body.title,
      songs: [],
    };

    playlistStore.addPlaylist(newPlayList);

    response.redirect('/dashboard');
  },
};
```

Refresh the Dashboard (which will now contain the new playlist)

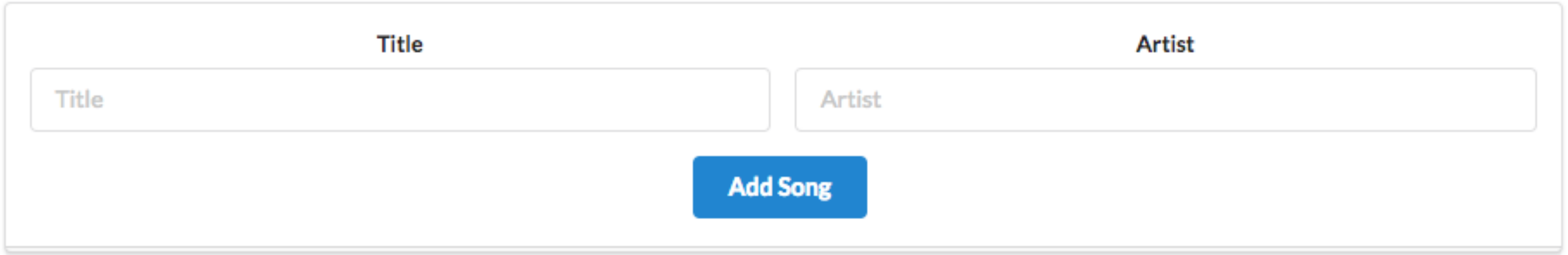
```
const dashboard = {
  ...

  addPlaylist(request, response) {

    const newPlayList = {
      id: uuid(),
      title: request.body.title,
      songs: [],
    };

    playlistStore.addPlaylist(newPlayList);

    response.redirect('/dashboard');
  },
};
```

Add a new Song



Sonatas

Song	Artist	
Opus 23	Beethoven	Delete Song
Opus 33	Beethoven	Delete Song



```
<form class="ui stacked segment form" action="/playlist/{{playlist.id}}/addsong" method="POST">
  <div class="two fields">
    <div class="field">
      <label>Title</label>
      <input placeholder="Title" type="text" name="title">
    </div>
    <div class="field">
      <label>Artist</label>
      <input placeholder="Artist" type="text" name="artist">
    </div>
  </div>
  <button class="ui blue submit button">Add Song</button>
</form>
```

action ➡ `"/playlist/{{playlist.id}}/addsong"`

Field Values ➡ `name="title"`
`name="artist"`

action → `"/playlist/{{playlist.id}}/addsong"`

```
...
router.post('/playlist/:id/addsong', playlist.addSong);
...
```

Router matches to action to a controller method

This method will be called when the ‘Submit’ button is pressed

The action contains the id of the playlist to which the song is to be added

Recover playlist id from request

```
const playlist = {
  ...

  addSong(request, response) {
    const playlistId = request.params.id;
    const playlist = playlistStore.getPlaylist(playlistId);
    const newSong = {
      id: uuid(),
      title: request.body.title,
      artist: request.body.artist,
    };
    playlistStore.addSong(playlistId, newSong);
    response.redirect('/playlist/' + playlistId);
  },

};
```

Get actual playlist with this id from store

```
const playlist = {
  ...

  addSong(request, response) {
    const playlistId = request.params.id;
    const playlist = playlistStore.getPlaylist(playlistId);
    const newSong = {
      id: uuid(),
      title: request.body.title,
      artist: request.body.artist,
    };
    playlistStore.addSong(playlistId, newSong);
    response.redirect('/playlist/' + playlistId);
  },

};
```

Create a new Song object, with a unique id + the title and artist fields from the request

```
const playlist = {
  ...

  addSong(request, response) {
    const playlistId = request.params.id;
    const playlist = playlistStore.getPlaylist(playlistId);
    const newSong = {
      id: uuid(),
      title: request.body.title,
      artist: request.body.artist,
    };
    playlistStore.addSong(playlistId, newSong);
    response.redirect('/playlist/' + playlistId);
  },

};
```

Add this new song to the store

```
const playlist = {
  ...

  addSong(request, response) {
    const playlistId = request.params.id;
    const playlist = playlistStore.getPlaylist(playlistId);
    const newSong = {
      id: uuid(),
      title: request.body.title,
      artist: request.body.artist,
    };
    playlistStore.addSong(playlistId, newSong);
    response.redirect('/playlist/' + playlistId);
  },

};
```

Refresh the current view (which will now contain the new song)

```
const playlist = {
  ...

  addSong(request, response) {
    const playlistId = request.params.id;
    const playlist = playlistStore.getPlaylist(playlistId);
    const newSong = {
      id: uuid(),
      title: request.body.title,
      artist: request.body.artist,
    };
    playlistStore.addSong(playlistId, newSong);
    response.redirect('/playlist/' + playlistId);
  },

};
```