Delete Track Button

Delete Song ▶ ⬍
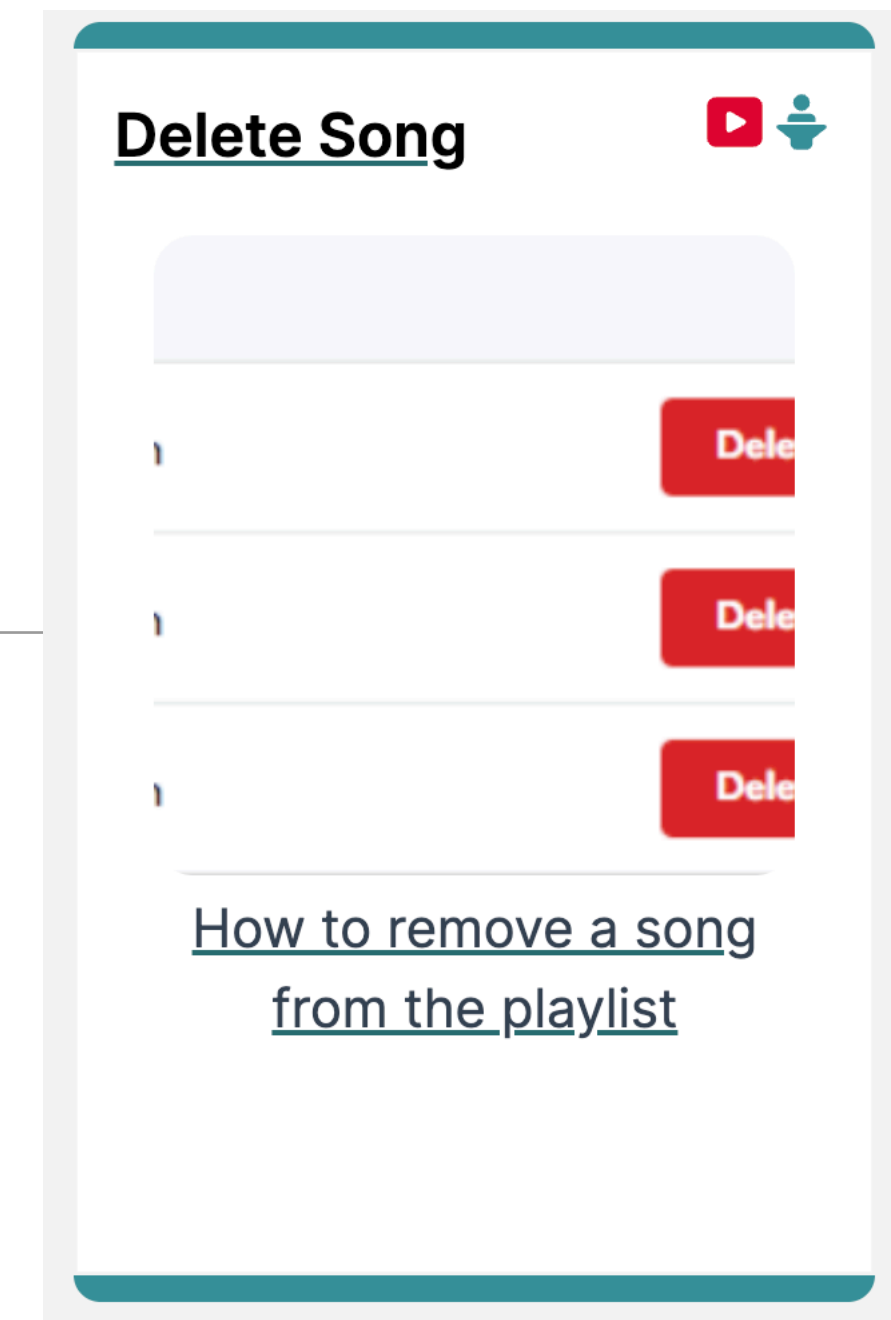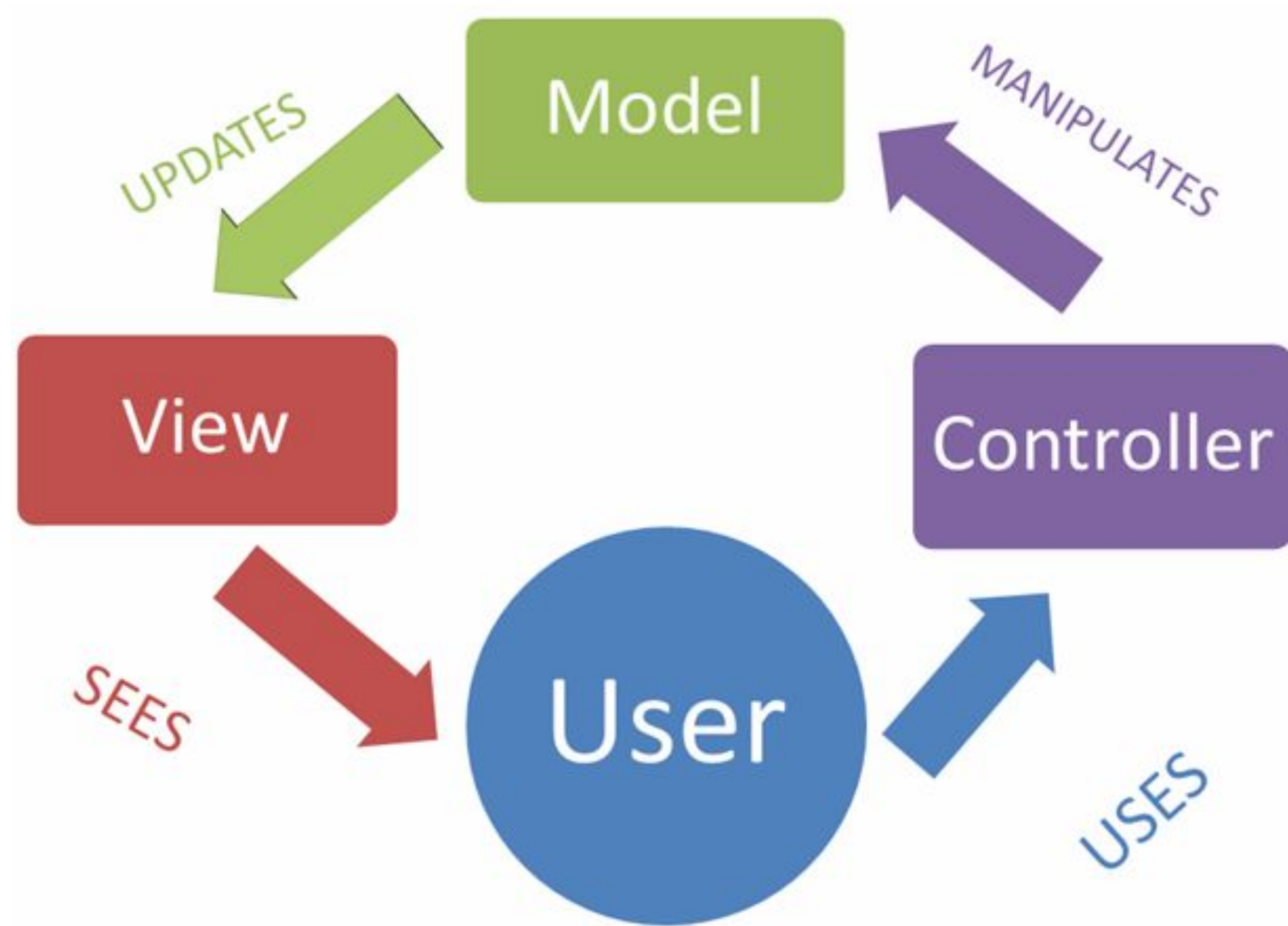
Del...

Del...

Del...

How to remove a song from the playlist

Request/Response Lifecycle

1. **Request** - link pressed on page

2. **Router** - find matching controller object

3. **Controller** - method invoked to handle request

4. **Model** - model queried/updated by controller

5. **View** - data sent from controller to view to construct response

6. **Response** - complete page rendered into browser

find matching
controller
object

request
link pressed on
page

Router

query/
update the
model

method
invoked to
handle
request

Controller

Model

response
complete page
rendered into
browser

View

data sent from
controller to view
to construct
response
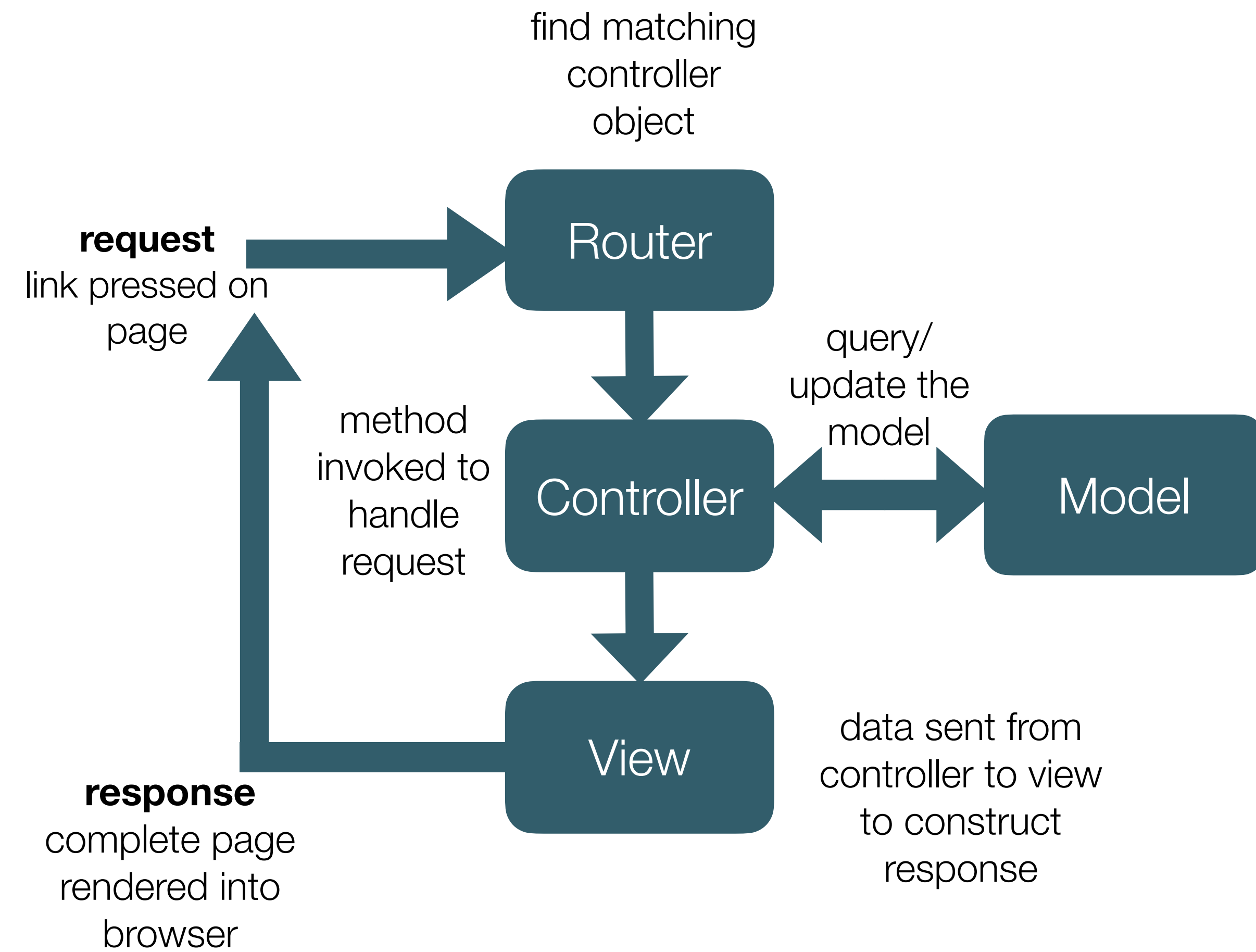
https://playlist-3-2023.glitch.me/playlist/5f107877-8a3f-4459-9f90-4aee89b517be

Get Playlist
Feature

My Only Playlist

Enter Track Details:

| Enter Title | Enter Artist | Enter duration |

Add Track

Track	Artist	Duration	
track 1	ME	12	🗑
track 2	ME	32	🗑

playlist-store.js

```javascript
export const playlistStore = {

  async getAllPlaylists() {
    await db.read();
    return db.data.playlists;
  },


  async getPlaylistById(id) {
    await db.read();
    const list = db.data.playlists.find((playlist) => playlist._id === id);
    list.tracks = await trackStore.getTracksByPlaylistId(list._id);
    return list;
  },

};
```

playlist.json

```json
{
  "file": "./models/playlists.json",
  "playlists": [
    {
      "title": "My Only Playlist",
      "_id": "677455fd-50fb-4ff1-903c-14f487f6f39
    }
  ]
}
```

```json
{
  "file": "./models/tracks.json",
  "tracks": [
    {
      "title": "track 1",
      "artist": "ME",
      "duration": 12,
      "_id": "a572147e-a592-4e9e-baa5-aad435be819
      "playlistid": "677455fd-50fb-4ff1-903c-14f4
    },
    {
      "title": "track 2",
      "artist": "ME",
      "duration": 32,
      "_id": "65229f82-9bc0-4292-8fef-932b6c441b1
      "playlistid": "677455fd-50fb-4ff1-903c-14f4
    }
  ]
}
```

Controller / Model Interaction

tracks.json

playlist-controller.js

```javascript
async index(request, response) {
  const playlist = await playlistStore.getPlaylistById(request.params.id);
  const viewData = {
    title: "Playlist",
    playlist: playlist,
  };
  response.render("playlist-view", viewData);
},
```

Track	Artist	Duration	
track 1	ME	12	🗑
track 2	ME	32	🗑

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playlist.js

```javascript
async index(request, response) {
  const playlist = await playlistStore.getPlaylistById(request.params.id);
  const viewData = {
    title: "Playlist",
    playlist: playlist,
  };
  response.render("playlist-view", viewData);
},
```

Controller / View Interaction

```json
{
  "file": "./models/playlists.json",
  "playlists": [
    {
      "title": "My Only Playlist",
      "_id": "677455fd-50fb-4ff1-903c-14f487f6f394"
    }
  ]
}
```

```json
{
  "file": "./models/tracks.json",
  "tracks": [
    {
      "title": "track 1",
      "artist": "ME",
      "duration": 12,
      "_id": "a572147e-a592-4e9e-baa5-aad435be819d",
      "playlistid": "677455fd-50fb-4ff1-903c-14f487f6f394"
    },
    {
      "title": "track 2",
      "artist": "ME",
      "duration": 32,
      "_id": "65229f82-9bc0-4292-8fef-932b6c441b39",
      "playlistid": "677455fd-50fb-4ff1-903c-14f487f6f394"
    }
  ]
}
```

playlist-view.hbs

```handlebars
{{> menu}}

<section class="section">
  <div class="title">
    {{playlist.title}}
  </div>
  {{> add-track}}
  {{> list-tracks}}
</section>
```

list-tracks.hbs

```handlebars
<table class="table is-fullwidth">
  <thead>
    <tr>
      <th>Track</th>
      <th>Artist</th>
      <th>Duration</th>
      <th></th>
    </tr>
  </thead>
  <tbody>
    {{#each playlist.tracks}}
    <tr>
      <td>
        {{title}}
      </td>
      <td>
        {{artist}}
      </td>
      <td>
        {{duration}}
      </td>
      <td>
        <a
          href="/playlist/{{../playlist._id}}/deletetrack/{{_id}}"
          class="button">
          {{>icons/delete}}
        </a>
      </td>
    </tr>
    {{/each}}
  </tbody>
</table>
```

Track	Artist	Duration	
track 1	ME	12	🗑
track 2	ME	32	🗑

Playlist Templates

playlist-view.hbs

```
{{> menu}}

<section class="section">
  <div class="title">
    {{playlist.title}}
  </div>
  {{> add-track}}
  {{> list-tracks}}
</section>
```

list-tracks.hbs

```
<table class="table is-fullwidth">
  <thead>
    <tr>
      <th>Track</th>
      <th>Artist</th>
      <th>Duration</th>
      <th></th>
    </tr>
  </thead>
  <tbody>
    {{#each playlist.tracks}}
    <tr>
      <td>
        {{title}}
      </td>
      <td>
        {{artist}}
      </td>
      <td>
        {{duration}}
      </td>
      <td>
        <a href="/playlist/{{../playlist._id}}/deletetrack/{{_id}}" class="button">
         {{>icons/delete}}
        </a>
      </td>
    </tr>
    {{/each}}
  </tbody>
</table>
```
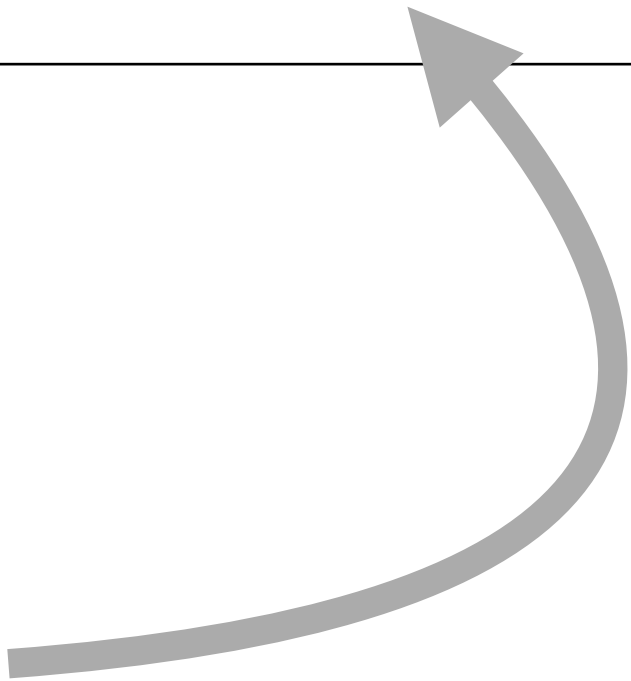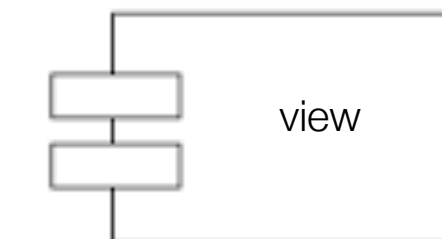
Track	Artist	Duration	
track 1	ME	12	🗑
track 2	ME	32	🗑

Track	Artist	Duration	
track 1	ME	12	🗑
track 2	ME	32	🗑

What should clicking this button do?

Delete Track Feature

Track	Artist	Duration	
track 1	ME	12	🗑
track 2	ME	32	🗑

router → controller

model

view
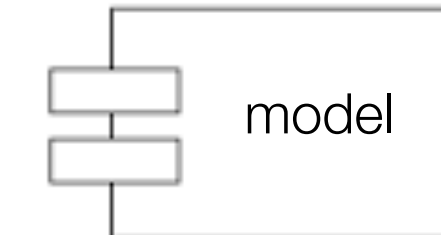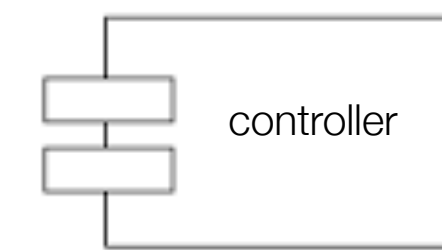
Track	Artist	Duration	
track 1	ME	12	🗑

Delete Song Feature

track 2	ME	32	🗑

Send REQUEST to Playlist Controller

Containing ID of Playlist
+ ID of track to delete

Playlist controller should delete the Track
Then refresh the playlist view

```
{
  "file": "./models/playlists.json",
  "playlists": [
    {
      "title": "My Only Playlist",
      "_id": "677455fd-50fb-4ff1-903c-14f487f6f394"
    }
  ]
}
```

```
{
  "file": "./models/tracks.json",
  "tracks": [
    {
      "title": "track 1",
      "artist": "ME",
      "duration": 12,
      "_id": "a572147e-a592-4e9e-baa5-aad435be819d",
      "playlistid": "677455fd-50fb-4ff1-903c-14f487f6f394"
    },
    {
      "title": "track 2",
      "artist": "ME",
      "duration": 32,
      "_id": "65229f82-9bc0-4292-8fef-932b6c441b39",
      "playlistid": "677455fd-50fb-4ff1-903c-14f487f6f394"
    }
  ]
}
```
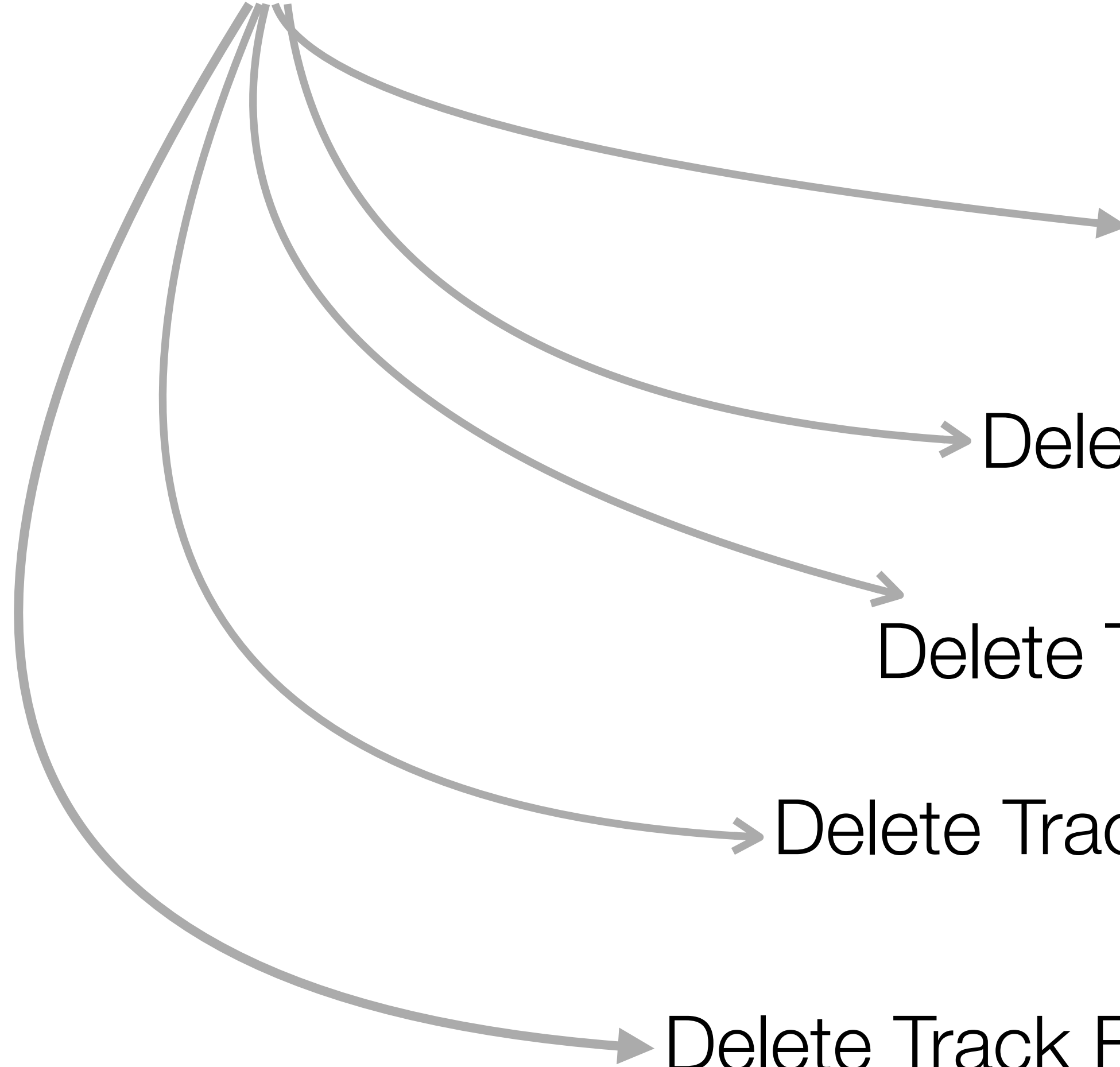
Delete Track Feature

Delete Track Button

Delete Track Route

Delete Track Link

Delete Track Method

Delete Track From Store

Delete Track Button

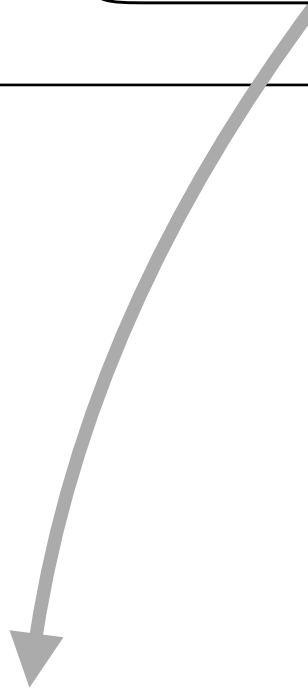| Track	Artist	Duration	
track 1	ME	12	🗑
track 2	ME	32	🗑

Delete Track Route

```
router.get("/playlist/:playlistid/deletetrack/:trackid", playlistController.deleteTrack);
```

Delete Track Route

```
router.get("/playlist/:playlistid/deletetrack/:trackid", playlistController.deleteTrack);
```

ID of Playlist
containing track
to delete

ID of track to
delete

list-tracks.hbs

```html
<table class="table is-fullwidth">
  <thead>
    <tr>
      <th>Track</th>
      <th>Artist</th>
      <th>Duration</th>
      <th></th>
    </tr>
  </thead>
  <tbody>
    {{#each playlist.tracks}}
    <tr>
      <td>
        {{title}}
      </td>
      <td>
        {{artist}}
      </td>
      <td>
        {{duration}}
      </td>
      <td>
        <a href="/playlist/{{../playlist._id}}/deletetrack/{{_id}}" class="button">
          {{>icons/delete}}
        </a>
      </td>
    </tr>
    {{/each}}
  </tbody>
</table>
```

id of playlist   id of track

Delete Track Link

Track	Artist	Duration	
track 1	ME	12	🗑
track 2	ME	32	🗑

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Delete Track Method

Get ID of Playlist

Get ID of Track

Delete Track from Playlist

Refresh the Current Page

```javascript
export const playlistController = {

  ...

   async deleteTrack(request, response) {

    const playlistId = request.params.playlistid;

    const trackId = request.params.trackid;

    console.log(`Deleting Track ${trackId} from Playlist ${playlistId}`);

    await trackStore.deleteTrack(request.params.trackId);

    response.redirect("/playlist/" + playlistId);
  },

};
```

Redirect -> Refresh the '/playlist/:id' route

Delete Track From Store

Get the
index of the
track to
delete

```javascript
export const trackStore = {
  async deleteTrack(id) {
    await db.read();
    const index = db.data.tracks.findIndex((track) => track._id === id);
    db.data.tracks.splice(index, 1);
    await db.write();
  },

};
```

Remove the track
with this index
from the array

Delete Track Button

Delete Song

How to remove a song
from the playlist