# My Music App - Python Web Basics Exam

*The app allows a user to browse different albums, including the author, genre, and price. The user can create a catalog of albums. Album creators can also edit or delete their posts at any time.*

## Skeleton

You are provided with all the needed **HTML pages**, **images,** and **CSS** for the project.

## Database

You will need **2 models**:

* **Profile**
  + **Username**
    - Character field, required.
    - It should have at least **2 characters** and **maximum -** **15 characters.**
    - The username can consist **only of letters, numbers, and underscore ("\_")**. Otherwise, raise a **ValidationError** with the message: **"Ensure this value contains only letters, numbers, and underscore."**
  + **Email**
    - Email field, required.
  + **Age**
    - Integer field, **optional**.
    - The age cannot **be below 0**.
* **Album**
  + **Album Name**
    - Character field, required.
    - All album **names** **must** be **unique**.
    - It should consist of a **maximum** **of 30 characters.**
  + **Artist**
    - Character field, required.
    - It should consist of a **maximum** **of 30 characters.**
  + **Genre**
    - Char field, required.
    - It should consist of a **maximum** **of 30 characters.**
    - The choices are **"Pop Music"**, **"Jazz Music"**, **"R&B Music"**, **"Rock Music"**, **"Country Music"**, **"Dance Music"**, **"Hip Hop Music"**, and **"Other"**.
  + **Description**
    - Text field, **optional**.
  + **Image URL**
    - URL field, required.
  + **Price**
    - Float field, required.
    - There should be **no limit** on the **amount of decimal places** of the price **in the database**.
    - The price cannot **be below 0.0**.

**Note: the validations will be examined only by the user side, not the admin side.**

## Routes

* <http://localhost:8000/> - home page
* <http://localhost:8000/album>/add/ - add album page
* [http://localhost:8000/album/details/<id](http://localhost:8000/album/details/%3cid)>/ - album details page
* [http://localhost:8000/album/edit/<id](http://localhost:8000/album/edit/%3cid)>/ - edit album page
* [http://localhost:8000/album/delete/<id](http://localhost:8000/album/delete/%3cid)>/ - delete album page
* <http://localhost:8000/profile/details/> - profile details page
* <http://localhost:8000/profile/delete>/ - delete profile page

## Pages

### Base Template - 8p

**Template file**: **"base.html"**

The template is a **base** for **all the templates** in the project. It consists of the **metadata** for the project (in the <head> tag), the **navigation** **bar**, and the **footer** of each web page. On the navigation bar:

* The **"Home"** button leads to the home page.
* The **"Create Album"** button leads to create album page.
* The **"Profile"** button leads to the profile page.

Keep in mind that the **"Create Album"** and the **"Profile"** buttons on the navigation bar are only visible when the user **has a profile**.

There is **no path** to this template, and it is **NOT accessible** via **URL**:

A screenshot of a video game

Description automatically generated with medium confidence

### Home Page - 22p

**Template files**: **"home-no-profile.html"**; "**home-with-profile.html"**

If there is **no profile** created yet, the home page shows a form for profile creation. It consists of:

* A **"Username:"**
  + There must be a placeholder "**Username**".
* An **"Email:"**
  + There must be a placeholder "**Email**".
* An **"Age:"**
  + There must be a placeholder "**Age**".
* A button **"Enter"**.
  + When you **click** on it, **if** the profile is **successfully created**, you should be redirected to the **same page**, showing a template for a **home page with a profile**.
  + Otherwise, the form should show the **appropriate validation errors**.

Graphical user interface

Description automatically generated

The **home with a profile page shows all albums created by the user.** When there are **no albums created**, you can **only** **see** the paragraph **"No Albums in Catalog!"**:

A screenshot of a computer

Description automatically generated with medium confidence

If there are a **profile** and **album/s, the page should have the following**:

* A navigation bar, as shown bellow.
* A headline **"All Albums"**
* A card-box for each album, showing the album's **image**, **name**, **artist**, **genre**, and **price** (formatted to the second decimal place). There should be a **button** **"Details"** in each card-box leading to the **album** **details page** for the selected album.

Graphical user interface, website

Description automatically generated

### Add Album Page - 15p

Template file: **"add-album.html"**

This page loads an **album** **creation form consisting of**:

* An **"Album Name:"**
  + There must be a placeholder "**Album Name**".
* An **"Artist:"**
  + There must be a placeholder "**Artist**".
* A **"Genre:"**
  + The user **must choose one** of the given **choices** above (in the Database section).
* A **"Description:"**
  + There must be a placeholder "**Description**".
* An **"Image URL:"**
  + There must be a placeholder "**Image URL**".
* A **"Price:"** fields
  + There must be a placeholder "**Price**".
* A button **"Add New Album"**
  + When you **click** on it, **if** the album is **successfully created**, you should be redirected to the **home page**, showing a template for a **home page with a profile**.
  + Otherwise, the form should show the **appropriate validation errors**.

A screenshot of a video game

Description automatically generated with medium confidence

### Album Details Page - 10p

Template file: **"album-details.html"**

This page contains an album's data. It should have the following:

* The **album** **image**
* The **album name**
* The **artist name**
* The **genre**
* The **price** of the album, formatted to the **second decimal place**
* The **description**, **if there is any entered**; otherwise, ignore the line
* An **"Edit Profile"** button that leads to the **edit album page**
* A **"Delete Profile"** button that leads to the **delete album page**

A screenshot of a video game

Description automatically generated

### Edit Album Page - 10p

Template file: **"edit-album.html"**

On the page, the form must be **filled** with the **data** of the **album** we want **to edit.**

**Note**: the price should have **no limit on the amount of decimal places** both when it's shown and when it's edited.

When you click on the **"Edit Album"** button:

* **If** the album is **successfully edited**,you should be redirected to the **home page**, showing a template for a home page with a profile.
* Otherwise, the form should show the **appropriate validation errors**.

A screenshot of a video game

Description automatically generated

### Delete Album Page - 10p

Template file: **"delete-album.html"**

On the page, the form must be **filled** with the **album's data,** and the **fields** should be **disabled.** When you click on the **"Delete"** button, the **album** is **deleted from the database**, and you should be redirected to the **home page**, showing a template for a home page with a profile.

The deleted album should be **no longer visible in the app**.

A screenshot of a video game

Description automatically generated

### Profile Details Page - 10p

Template file: **"profile-details.html"**

This page contains the **user's data**. It should have the following:

* The **default** **profile** **image (in the resources/static/images directory)**
* The **username**
* The **email**
* The **age**, if it is entered; Otherwise, ignore this line
* The total number of albums existing at the moment in this app
* A **"Delete Profile"** button that leads to the **delete profile page**

A screenshot of a video game

Description automatically generated

### Delete Profile Page - 15p

Template file: **"profile-delete.html"**

Deleting a profile should delete the profile info and **all albums.** After **deletion**, the user should be redirected to the **home page with no profile**.

A screenshot of a computer

Description automatically generated with medium confidence