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**FACULTY OF APPLIED INFORMATION TECHNOLOGY**

**Field Of Study: Information Technology**

**Specialty: Programming**

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**PROJECT**

**Course: PROJECT\_Technologie webowe (Web Technologies)**

**Topic:** Musicly: Music Streaming Site

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Musicly: Music Streaming Site Documentation

Introduction:

An outline of the Musicly: Music Streaming Site, a web application with authentication built with Flask, SQLAlchemy, and JWT, Python, HTML, CSS, JavaScript.

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Project Overview:

Through registration, login, and dashboard access, users of the Musicly: Music Streaming Site web application can enjoy music streaming. Using JWT tokens, the application guarantees user authorization and authentication.

File Structure:

- app.py: Main application file containing the Flask routes and configurations.

- register.html: HTML template for user registration.

- login.html: HTML template for user login.

- dashboard.html: HTML template for user dashboard.

- script.js: JavaScript file handling client-side functionalities.

- playlist.js: JavaScript file containing the list of songs.

- static/: Directory containing static files such as images, music, and stylesheets.

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Functionality:

Registration:

- Allows users to register by providing their name, email, and password.

- Passwords are securely hashed using bcrypt before storing them in the database.

Изображение выглядит как текст, снимок экрана, Шрифт, число

Автоматически созданное описание

Login:

- Users can log in with their email and password.

- Passwords are validated by comparing the hashed password stored in the database with the hashed password entered by the user.

Изображение выглядит как текст, снимок экрана, Шрифт, линия

Автоматически созданное описание

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Dashboard:

- Authenticated users are redirected to the dashboard upon successful login.

- Displays user information such as name and email.

Изображение выглядит как текст, Шрифт, снимок экрана, дизайн

Автоматически созданное описание

- Allows users to listen to music with playback controls.

Изображение выглядит как текст, снимок экрана

Автоматически созданное описание

- Provides functionalities to play, pause, skip tracks, and shuffle songs.

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Изображение выглядит как текст, снимок экрана, Шрифт, число

Автоматически созданное описание

Logout:

- Allows users to log out of their accounts.

- Clears the session token, requiring users to log in again to access the dashboard.

Изображение выглядит как текст, Шрифт, снимок экрана

Автоматически созданное описание

Dependencies:

- Flask: Web framework for building the application.

- Flask-SQLAlchemy: ORM for database interaction.

- bcrypt: Hashing library for password encryption.

- PyJWT: Library for generating and verifying JWT tokens.

Conclusion:

With secure token-based authentication, the Musicly: Music Streaming Site offers consumers a straightforward yet useful platform for enjoying music streaming while guaranteeing their authorization and authentication.

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