

Login Module

Overview

This Login Module is a comprehensive authentication solution built using Spring Boot. It offers essential features like user signup, sign-in, and OAuth2 integration, making it versatile for use in a wide range of applications. The module is designed to be easily integrated into other projects, providing a robust foundation for managing user authentication.

Features

- **User Signup and Sign-in:**
 - Allows users to create accounts and securely log in using their credentials.
 - Supports email and password-based authentication.
- **OAuth2 Integration:**
 - Seamless integration with OAuth2 providers, enabling users to sign in using their existing accounts from **Google** and **GitHub**.
 - Simplifies the authentication process for users and enhances security.
- **Session Management:**
 - Efficient session handling to ensure secure and smooth user experiences.
 - Automatic session creation upon successful login.
- **Extensibility:**
 - Designed to be easily integrated into any Spring Boot project.
 - Provides a modular and configurable approach to authentication, making it adaptable to various project requirements.

Technology Stack

- **Backend:** Spring Boot, Spring Security

- **Frontend:** HTML, CSS, a little bit of JavaScript
- **Database:** MySQL
- **OAuth2 Providers:** Google, GitHub
- **Build Tool:** Maven

Usage

This Login Module can be seamlessly integrated into your existing Spring Boot projects. It provides all the necessary components for user authentication, saving development time and ensuring a secure login process for your application.

Integration Steps:

1. **Clone the repository** and add it to your project.
2. **Configure the application properties** to match your database and OAuth2 provider settings.
3. **Include the module** as a dependency in your project's `pom.xml`.
4. **Run the application** to set up the necessary tables in your MySQL database.
5. **Customize the frontend views** using HTML, CSS, and JavaScript according to your project's UI requirements.

Future Enhancements

- **Two-Factor Authentication (2FA):** Adding support for 2FA to further secure user accounts.
- **Social Media Login:** Extending OAuth2 integration to include additional social media platforms.
- **Password Recovery:** Implementing a secure password recovery mechanism.

Contributing

Contributions are welcome! If you have ideas to improve this module or want to add new features, please feel free to fork the repository and submit a pull request.

License

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