

Name : Siva Kumar V

No: N01604510

Sub :J2EE Web Components

Lab:4 – APIDEVELOPERPORTAL

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#### Introduction:

The Lab 4 API Developer Portal is developed for a user to register, validate, and manage their API keys. It uses Java servlets and JDBC for back-end processing and provides a user-friendly HTML interface.

#### Application Design:

This APIDEVELOPER PORTAL application uses a servlet to handle HTTP requests, which allows for a separation between the front-end and the back-end. The JDBC connection using MYSQL DATABASE makes access to data easier.

Database Structure: It consist of two tables

Users: Stores user information such as ID, username, password, email, and current timestamp.

api\_keys: Stores API key information, including ID, user ID, key value, status, and creation date.

#### HTML Front-End Design:

Registration page: Allows a new register new users with username, password, and email.

Login Page: Allows users to use their credentials to login after successful registration.

Dashboard Page: Shows the user the API keys and options such as deactivate and generate new API Key .

API Key Management Page: Provides information about each API key along with actions to generate new apikey or deactivate the key.

The application includes :

User registration and login authentication.

API key generation and management features.

#### Conclusion:

The developed API Developer Portal features well-integrated web technologies, providing users with a seamless experience in using their API access.