

SNLIDB_v2 User Guide

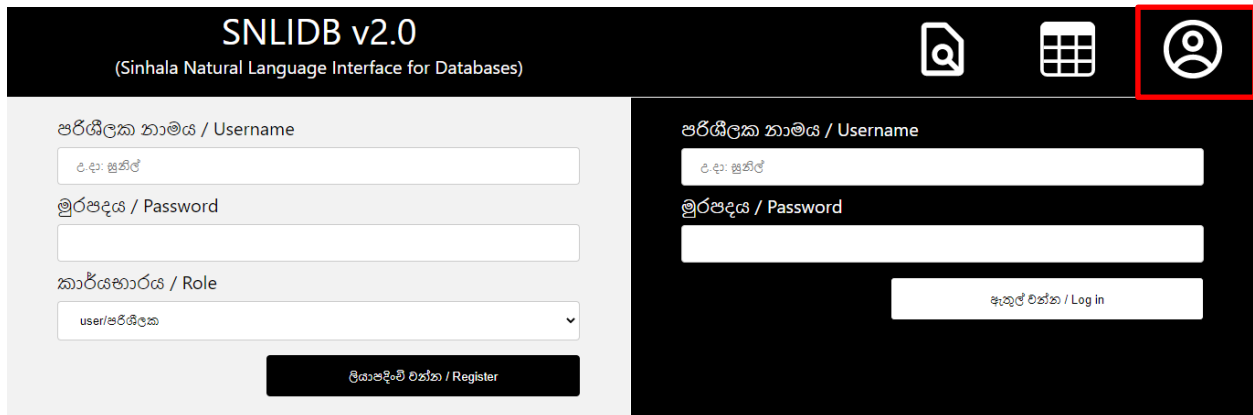
~ By Mahdi Refaideen

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1 Register and login

A user must register to the system in order to perform any tasks. Registration and login options are provided in the ‘profile page’. You can navigate to the ‘profile page’ easily via clicking the profile icon from the header as shown below.



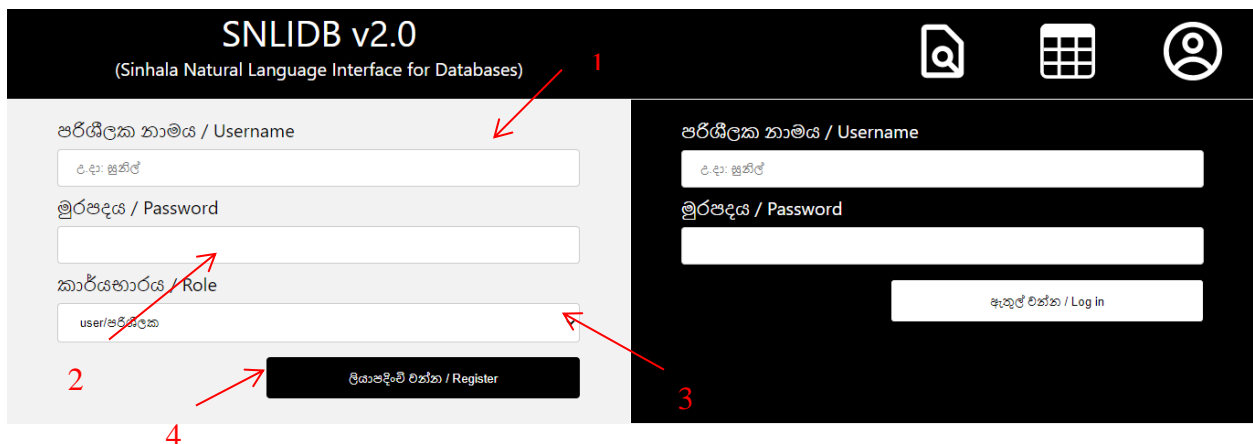
The screenshot shows the SNLIDB v2.0 header with the title '(Sinhala Natural Language Interface for Databases)'. On the right, there are three icons: a document, a calendar, and a profile icon. The profile icon is highlighted with a red box and a red arrow points to it from the right. Below the header, there are two forms. The left form is for registration, with fields for 'පරිශීලක නාමය / Username' (with a placeholder 'උදා: සුනිල්'), 'මුරපදය / Password', 'කාර්යභාරය / Role' (a dropdown menu with 'user/පරිශීලක' selected), and a 'ලියාපදිංචි වන්න / Register' button. The right form is for login, with fields for 'පරිශීලක නාමය / Username' (with a placeholder 'උදා: සුනිල්') and 'මුරපදය / Password', and a 'ඇතුළු වන්න / Log in' button.

1.1 Register

To register, a user is required to provide,

- Username – name used in the application, should be unique. [1]
- Password – password used for authentication. [2]
- Role – Choose either admin or user. An admin has all access to the database whereas a user has no permission on modifying any data in the database. [3]




And click ‘Register’ button. [4]



This screenshot is similar to the previous one but includes numbered annotations. Red arrows and numbers 1 through 4 point to specific elements: 1 points to the 'පරිශීලක නාමය / Username' field, 2 points to the 'මුරපදය / Password' field, 3 points to the 'කාර්යභාරය / Role' dropdown menu, and 4 points to the 'ලියාපදිංචි වන්න / Register' button.

SNLIDB_v2 User Guide

SNLIDB v2.0
(Sinhala Natural Language Interface for Databases)



List of all tables

- [student](#)
- [users](#)

| ID | NAME | AGE | MARKS |
|----|--------|-----|-------|
| 1 | සුනිල් | 15 | 75 |
| 2 | නිමල් | 15 | 80 |
| 3 | ලකල් | 15 | 35 |
| 4 | ජනා | 15 | 55 |
| 5 | මියා | 15 | 74 |

Name

Age

Marks

INSERT කරන්න

List of
tables

Click to view all data & to
insert any data

3 Generate SQL queries

By navigating into the ‘Generate query’ page, you can generate the relevant SQL query by providing the Sinhala natural language query. To navigate to generate query page easily, click the search icon from the header.

Next enter your Sinhala query in the input field [1] and click ‘Generate SQL’ [2]. The system will provide the processed SQL query in the next input field [3].

To modify the SQL query, enable the input field by clicking ‘Edit SQL’ [4].

To view the database result, click ‘Execute’ [5]. The result will be displayed in the right side [5].

The screenshot displays the SNLIDB v2.0 interface, titled '(Sinhala Natural Language Interface for Databases)'. The main area is divided into two panels. The left panel, titled 'කුමක්ද ඔබ සොයන්නේ?' (What are you looking for?), contains a text input field for a Sinhala query (labeled 1), a 'SQL ලෙස පරිවර්තනය කරන්න' (Convert to SQL) button (labeled 2), a text input field for the generated SQL query (labeled 3), an 'SQL මෙතැන් කරන්න' (Edit SQL) button (labeled 4), and an 'දත්ත ලබාගන්න' (Get data) button (labeled 5). The right panel displays a table with the following data:

| ID | NAME | AGE | MARKS |
|----|---------|-----|-------|
| 1 | සුනිල් | 15 | 75 |
| 2 | නිමල් | 15 | 80 |
| 3 | ලකල් | 15 | 35 |
| 4 | ජනා | 15 | 55 |
| 5 | ප්‍රියා | 15 | 74 |