

## **TITLE:DATA WAREHOUSING WITH IBM CLOUD Db2 WAREHOUSE**

### **Team Members:**

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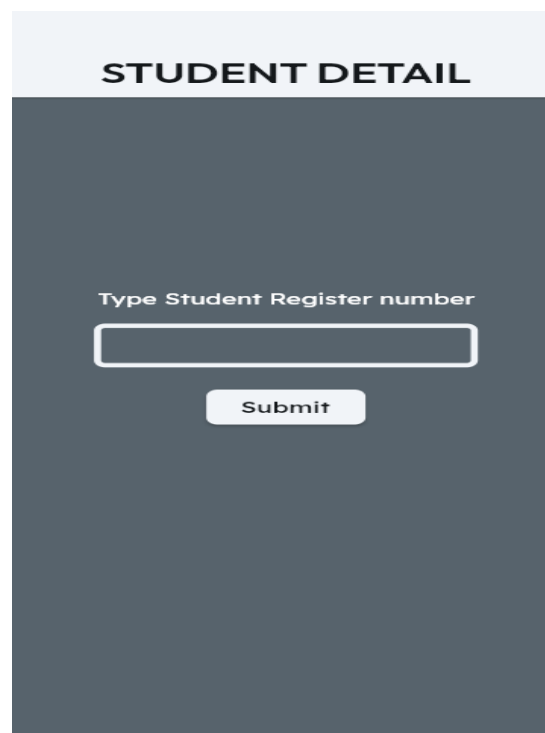
### **Project Overview:**

The objective of this project is to retrieve and display student details stored in an Excel file using the Pandas library in Python. The student details are fetched based on the user-provided register number.

### **Final project overview:**

#### **Description:**

The Student Information Management System is a comprehensive project designed to efficiently manage and provide detailed information about students using their unique register numbers. This system aims to streamline the process of accessing and updating student data, ensuring accuracy and ease of use for educational institutions.



The image shows a web application interface for a Student Information Management System. The interface has a dark blue background. At the top, there is a light blue header bar with the text "STUDENT DETAIL" in bold. Below the header, there is a text input field with the placeholder text "Type Student Register number". Below the input field, there is a white button with the text "Submit".

This image is the first page of interface, once you enter student register number and then click submit it will navigate to the next page, details in the excel sheet was display in next page of the interface.

**STUDENT DETAIL**

REGISTER NUMBER : 7112101

NAME : JOHN S S

FIRST NAME : JOHN

LAST NAME : S S

DEPARTMENT : CSE

DATE OF BIRTH : 18/10/2003

MOBILE NUMBER : 9120013456

EMAIL ID : john@gmail.com

This is second page of the interface that containing the student details of the unique register number that you have entered in the previous page.

**STUDENT DETAILS**

TYPE STUDENT REGISTER NUMBER

Submit

Register number not found

If Register number entered is wrong, It will indicate as Register number nor found.

## **Key Features:**

### User-Friendly Interface:

Simple and intuitive design for easy navigation, requiring minimal training for users to effectively use the system.

### Comprehensive Student Details:

Provides a holistic view of the student's information, including personal details, academic records and contact information.

### Excel Sheet Integration:

Utilizes Excel as the primary database for storing student details.

Allows for easy updates and additions to the student information by directly modifying the Excel sheet.

### Export and Import Capabilities:

Allows for the export of student information for reporting purposes.

Supports the import of updated Excel sheets to keep the system synchronized with the latest data.

### Data Validation and Error Handling:

Implements data validation to ensure the accuracy and integrity of the information.

Includes error-handling mechanisms to address any discrepancies or issues during data retrieval.

### Scalability and Adaptability:

Designed to accommodate the growth of student numbers and additional data fields.

Adaptable to evolving requirements and changes in the educational environment.