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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Feature** | | Login | | | | | |  | |  | |  | | |
| **Test requirement** | | Test function login in roles student , teacher and admin | | | | | |  | |  | |  | | |
| **Reference Document** | |  | | | | |  | | |  | |  | | |
| ***Pass*** | | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** | |  | | | | | |  | | |  |
| 8 | | 0 | -1 | 0 | 8 | |  | | | | | |  | | |  |
|  | |  |  |  |  | |  | | | | | |  | | |  |
| **ID** | | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | | **Result** | | | | | | **Test date** | | | **Tester** |
| **Admin, Staff account** | |  |  |  |  | |  | | | | | |  | | |  |
| [Login-1] | | Log in Admin/Staff | Username: tester  Password : tester Click button "LOGIN" in this page | 1. Redirect the dashboard page 2. Name of admin is displayed in the top left | 1. Already has admin or staff account | | Pass | | | | | | 6/6/2022 | | | TBNGOC |
| [Login-2] | | Log in by the Admin/Staff account (username and password invalid) | Username : tesstsst  Password : 239789 Click button "LOGIN" in this page | 1. Redirect the Login page 2. Display the message No.1 | 1. Already has admin or staff account | | Pass | | | | | | 6/6/2022 | | | TBNGOC |
| [Login-3] | | Log in by the Admin/Staff account with account and password is null | Username :   Password :  Click button "LOGIN" in this page | 1. Redirect the Login page 2. Display the message No.2 | 1. Already has admin or staff account | | Pass | | | | | | 6/6/2022 | | | TBNGOC |
| [Login-4] | | Log in by the student account (username and password is valid) | Username : truongngoc1  Password : 123456 Click button "LOGIN" in this page | 1. Redirect the dashboard page 2. Name of student is displayed in the top left | 1. Already has student account | | Pass | | | | | | 6/6/2022 | | | TBNGOC |
| [Login-5] | | Log in by the student account (username and password is null) | Username :   Password :  Click button "LOGIN" in this page | 1. Redirect the Login page 2. Display the message No.2 | 1. Already has student account | | Pass | | | | | | 6/6/2022 | | | TBNGOC |
| [Login-6] | | Log in by the student account but username and password is incorrect | Username : truongngoc1  Password : 456748965 Click button "LOGIN" in this page | 1. Redirect the Login page 2. Display the message No.1 | 1. Already has student account | | Pass | | | | | | 6/6/2022 | | | TBNGOC |
| [Login-7] | | Log in by the teacher account but Email and password is incorrect | Username : vananjava  Password : 123456 Click button "LOGIN" in this page | 1. Redirect the Login page 2. Display the message No.1 | 1. Already has teaceher account | | Pass | | | | | | 6/6/2022 | | | TBNGOC |
| [Login-8] | | Log in by the teacher account but Email and password is null | Username :   Password :  Click button "LOGIN" in this page | 1. Redirect the Login page 2. Display the message No.2 | 1. Already has teaceher account | | Pass | | | | | | 6/6/2022 | | | TBNGOC |

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| **Feature** | View student | | | |  |  |  |
| **Test requirement** | Test function view student in roles user | | | |  |  |  |
| **Reference Document** |  | | | |  |  |  |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  |  |  |
| 1 | 0 | 0 | 0 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |
| **Test Case ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | **Test date** | **Tester** |
| <ViewStudent-1> | Verify that all the students are clearly visible. | 1. View Students on the Studentpage. | 1. Display students successfully | 1. Have connect with server | Pass | 7/6/2022 | TBNGOC |

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| **Feature** | Register new student | | | |  |  |
| **Test requirement** | Test function create student in roles admin and teacher |  |  |  |  |  |  |
| **Reference Document** |  | | | |  |  |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  |  |  |
| 4 | 0 | -1 | 0 | 3 |  |  |  |
|  |  |  |  |  |  |  |  |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | **Test date** | **Tester** |
| **Admin account** |  |  |  |  |  |  |  |
| [Register new student-1] | Check popup "Register" | 1. Login to Admin account. 2. Click "Student" on sidebar. 3. Click "Register" button. | 1. Show list student 2.Display infor of student to fill in | Have to connect with server - Already logged in with role admin and teacher | Pass | 7/6/2022 | TBNGOC |
| [Register new student-2] | Create student with valid information | 1. Fill valid product information to form.  - First Name: Le  - Last Name: Van B  - Phone: 0657567565  - Data of birth : 10/5/2000  - Gender: Male  - UserName : levanb - password : levanbs- ….. 2. Click "Add" button. | 1. New student has been added.  2. Show new list student. | Have to connect with server - Already logged in with role admin and teacher | Pass | 7/6/2022 | TBNGOC |
| [Register new student-3] | Create student with incorrect patterns of fields (at least one field are null) | 1. Fill valid product information to form.  - First Name:   - Last Name:   - Phone: 0657567565  - Data of birth : 10/5/2000  - Gender: Male  - UserName : levanb - password : levanbs- ….. 2. Click "Add" button. | 1. Display the message No.3 2. Can not add student. | Have to connect with server - Already logged in with role admin and teacher | Pass | 7/6/2022 | TBNGOC |
| [Register new student-3] | Check button "Clear " | 1. Fill valid product information to form.  - First Name: Le Van  - Last Name: C  - Phone: 0657567565  - Data of birth : 10/5/2000  - Gender: Male  - UserName : levanb - password : levanbs- ….. 2. Click "Clear" button. | 1. Clear all infor have been just filled in | Have to connect with server - Already logged in with role admin and teacher | Pass | 7/6/2022 | TBNGOC |

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| **Feature** | UpdateStudent | | | |  |  |  |
| **Test requirement** | Test function update student in roles admin |  |  |  |  |  |  |
| **Reference Document** |  | | | |  |  |  |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  |  |  |
| 3 | 0 | -1 | 0 | 2 |  |  |  |
|  |  |  |  |  |  |  |  |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | **Test date** | **Tester** |
| **Admin account** |  |  |  |  |  |  |  |
| [UpdateStudent-1] | Check screen "Manage student" | 1. Login to Admin account. 2. Click "Student" on sidebar. 3. Click "Manage Student" on Student bar. | 1. Redirect to the "manage student" page | 1. Connect with server 2. Already logged in with role admin | Pass | 8/6/2022 | TBNGOC |
| [UpdateStudent-2] | Update student with valid information | 1. Fill valid product information to form.  - First Name: levan   - Last Name: c  - Phone: 45560456  - Data of birth : 10/5/2000  - Gender: Male  - UserName : levanc - password : levanbc - ….. 2. Click "Update" button. | 1. Selected student has been updated. 2. Get the selected student infor 3. Show updated student infor in student list. | Connect with server - Already logged in with role admin | Pass | 8/6/2022 | TBNGOC |
| [UpdateStudent-3] | Update student with invalid information (student infor is null) | 1. Fill valid product information to form.  - First Name:   - Last Name:   - Phone: 45560456  - Data of birth : 10/5/2000  - Gender: Male  - UserName : levanc - password : levanbc - ….. 2. Click "Update" button. | 1. Display the message No.3 2. Can not update student. | Connect with server - Already logged in with role admin | Pass | 8/6/2022 | TBNGOC |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Feature** | View teacher | | | |  |  |  |
| **Test requirement** | Test function view teacher in roles user | | | |  |  |  |
| **Reference Document** |  | | | |  |  |  |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  |  |  |
| 1 | 0 | 0 | 0 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |
| **Test Case ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | **Test date** | **Tester** |
| <ViewTeacher-1> | Verify that all the teacher are clearly visible. | 1. View Teachers on the Teacherpage. | 1. Display teachers successfully | 1. Have connect with server | Pass | 7/6/2022 | TBNGOC |

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| **Feature** | Register new teacher | | | |  |  |
| **Test requirement** | Test function create student in roles admin |  |  |  |  |  |  |
| **Reference Document** |  | | | |  |  |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  |  |  |
| 4 | 0 | -1 | 0 | 3 |  |  |  |
|  |  |  |  |  |  |  |  |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | **Test date** | **Tester** |
| **Admin account** |  |  |  |  |  |  |  |
| [Register new teacher-1] | Check popup "Register" | 1. Login to Admin account. 2. Click "Teacher" on sidebar. 3. Click "Register" button. | 1. Show list teacher 2.Display infor of teacher to fill in | Have to connect with server - Already logged in with role admin | Pass | 7/6/2022 | TBNGOC |
| [Register new teacher-2] | Create teacher with valid information | 1. Fill valid product information to form.  - First Name: Le  - Last Name: Van B  - Phone: 0657567565  -course: JAVA  - Data of birth : 10/5/2000  - Gender: Male  - UserName : levanb - password : levanbs- ….. 2. Click "Add" button. | 1. New teacher has been added.  2. Show new list teacher. | Have to connect with server - Already logged in with role admin | Pass | 7/6/2022 | TBNGOC |
| [Register new teacher-3] | Create teacher with incorrect patterns of fields (at least one field are null) | 1. Fill valid product information to form.  - First Name:   - Last Name:   - Phone: 0657567565  - Data of birth : 10/5/2000  - Gender: Male  - course: JAVA UserName : levanb - password : levanbs- ….. 2. Click "Add" button. | 1. Display the message No.3 2. Can not add teacher. | Have to connect with server - Already logged in with role admin | Pass | 7/6/2022 | TBNGOC |
| [Register new student-3] | Check button "Clear " | 1. Fill valid product information to form.  - First Name: Le Van  - Last Name: C  - Phone: 0657567565  -course: JAVA  - Data of birth : 10/5/2000  - Gender: Male  - UserName : levanb - password : levanbs- ….. 2. Click "Clear" button. | 1. Clear all infor have been just filled in | Have to connect with server - Already logged in with role admin | Pass | 7/6/2022 | TBNGOC |

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| **Feature** | UpdateTeacher | | | |  |  |  |
| **Test requirement** | Test function update teacher in roles admin |  |  |  |  |  |  |
| **Reference Document** |  | | | |  |  |  |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  |  |  |
| 3 | 0 | -1 | 0 | 2 |  |  |  |
|  |  |  |  |  |  |  |  |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | **Test date** | **Tester** |
| **Admin account** |  |  |  |  |  |  |  |
| [UpdateTeacher-1] | Check screen "Manage teacher" | 1. Login to Admin account. 2. Click "Teacher" on sidebar. 3. Click "Manage Teacher" on Teacher bar. | 1. Redirect to the "manage teacher" page | 1. Connect with server 2. Already logged in with role admin | Pass | 8/6/2022 | TBNGOC |
| [UpdateTeacher-2] | Update student with valid information | 1. Fill valid product information to form.  - First Name: levan   - Last Name: c  - Phone: 45560456   -Course: DOTNET  - Data of birth : 10/5/2000  - Gender: Male  - UserName : levanc - password : levanbc - ….. 2. Click "Update" button. | 1. Selected teacher has been updated. 2. Get the selected teacher infor 3. Show updated teacher infor in teacher list. | Connect with server - Already logged in with role admin | Pass | 8/6/2022 | TBNGOC |
| [UpdateTeacher-3] | Update teacher with invalid information (teacher infor is null) | 1. Fill valid product information to form.  - First Name:   - Last Name:   - Phone: 45560456  -Course: DOTNET  - Data of birth : 10/5/2000  - Gender: Male  - UserName : levanc - password : levanbc - ….. 2. Click "Update" button. | 1. Display the message No.3 2. Can not update teacher. | Connect with server - Already logged in with role admin | Pass | 8/6/2022 | TBNGOC |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Feature** | View score | | | |  |  |  |
| **Test requirement** | Test function view score in roles admin, teacher, user | | | |  |  |  |
| **Reference Document** |  | | | |  |  |  |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  |  |  |
| 1 | 0 | 0 | 0 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |
| **Test Case ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | **Test date** | **Tester** |
| <score-1> | Verify that all the score of students are clearly visible. | 1. View score on the Scorepage.( all score – admin, score of course – teacher , score of student- student) | 1. Display score successfully | 1. Have connect with server | Pass | 7/6/2022 | TBNGOC |

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| **Feature** | Add new score | | | |  |  |
| **Test requirement** | Test function add score in roles admin and teacher |  |  |  |  |  |  |
| **Reference Document** |  | | | |  |  |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  |  |  |
| 4 | 0 | -1 | 0 | 3 |  |  |  |
|  |  |  |  |  |  |  |  |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | **Test date** | **Tester** |
| **Admin account** |  |  |  |  |  |  |  |
| [add new score-1] | Check popup "Add score" | 1. Login to Admin , teacher account. 2. Click "Score" on sidebar. 3. Click "Add score" button. | 1. Show list student or score of student 2.Display score of student to fill in ( all score – admin, course’s score – teacher) | Have to connect with server - Already logged in with role admin and teacher | Pass | 7/6/2022 | TBNGOC |
| [Add new score -2] | Add score with valid score | 1. Fill valid product information to form.  -IDstudent: 1  - Course: JAVA (only admin)  Score : 8 Description:….. 2. Click "Add" button. | 1. New score has been added.  2. Show new list score of student. | Have to connect with server - Already logged in with role admin and teacher | Pass | 7/6/2022 | TBNGOC |
| [Add new score-3] | Add new score of selected student with incorrect patterns of fields (at least one field are null) | 1. Fill valid product information to form.  -IDstudent:   - Course: JAVA (only admin)  Score : Description:….. 2. Click "Add" button. | 1. Display the message No.3 2. Can not add score. | Have to connect with server - Already logged in with role admin and teacher | Pass | 7/6/2022 | TBNGOC |
| [Register new score-3] | Check button "Clear " | 1. Fill valid product information to form.  -IDstudent: 1  - Course: JAVA (only admin)  Score : 8 Description:….. 2. Click "Clear" button. | 1. Clear all infor have been just filled in | Have to connect with server - Already logged in with role admin and teacher | Pass | 7/6/2022 | TBNGOC |

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| **Feature** | View course | | | |  |  |  |
| **Test requirement** | Test function view course in roles admin,teacher,student | | | |  |  |  |
| **Reference Document** |  | | | |  |  |  |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  |  |  |
| 1 | 0 | 0 | 0 | 1 |  |  |  |
|  |  |  |  |  |  |  |  |
| **Test Case ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | **Test date** | **Tester** |
| <ViewCourse-1> | Verify that all the course are clearly visible. | 1. View Course on the Coursepage. | 1. Display course successfully | 1. Have connect with server | Pass | 7/6/2022 | TBNGOC |

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| **Feature** | Add new course | | | |  |  |
| **Test requirement** | Test function create course in roles admin |  |  |  |  |  |  |
| **Reference Document** |  | | | |  |  |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  |  |  |
| 4 | 0 | -1 | 0 | 3 |  |  |  |
|  |  |  |  |  |  |  |  |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | **Test date** | **Tester** |
| **Admin account** |  |  |  |  |  |  |  |
| [Register new course-1] | Check popup "Add course" | 1. Login to Admin account. 2. Click "Course" on sidebar. 3. Click "Add new course" button. | 1. Show list course 2.Display infor of course to fill in | Have to connect with server - Already logged in with role admin | Pass | 7/6/2022 | TBNGOC |
| [Register new course-2] | Create course with valid information | 1. Fill valid product information to form.  - Name course: MATH   - Hours: 3  - IDteacher: 2. Click "Add" button. | 1. New course has been added.  2. Show new list course. | Have to connect with server - Already logged in with role admin | Pass | 7/6/2022 | TBNGOC |
| [Register new teacher-3] | Create course with incorrect patterns of fields (at least one field are null) | 1. Fill valid product information to form.  - Name course: MATH   - Hours:  - IDteacher: . Click "Add" button. | 1. Display the message No.3 2. Can not add course. | Have to connect with server - Already logged in with role admin | Pass | 7/6/2022 | TBNGOC |
| [Register new student-4] | Check button "Clear " | 1. Fill valid product information to form.  - Name course: MATH   - Hours: 3  - IDteacher: 2. Click "Clear" button. | 1. Clear all infor have been just filled in | Have to connect with server - Already logged in with role admin | Pass | 7/6/2022 | TBNGOC |

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| **Feature** | UpdateCourse | | | |  |  |  |
| **Test requirement** | Test function update course in roles admin |  |  |  |  |  |  |
| **Reference Document** |  | | | |  |  |  |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  |  |  |
| 3 | 0 | -1 | 0 | 2 |  |  |  |
|  |  |  |  |  |  |  |  |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | **Test date** | **Tester** |
| **Admin account** |  |  |  |  |  |  |  |
| [UpdateCourse-1] | Check screen "Manage course" | 1. Login to Admin account. 2. Click "Course" on sidebar. 3. Click "Manage Course" on Course bar. | 1. Redirect to the "manage Course" page | 1. Connect with server 2. Already logged in with role admin | Pass | 8/6/2022 | TBNGOC |
| [UpdateCourse-2] | Update course with valid information | 1. Fill valid product information to form.  - Name course: MATH   - Hours: 3  - IDteacher: 2. Click "Update" button. | 1. Selected course has been updated. 2. Get the selected course infor 3. Show updated course infor in course list. | Connect with server - Already logged in with role admin | Pass | 8/6/2022 | TBNGOC |
| [UpdateTeacher-3] | Update course with invalid information (course infor is null) | 1. Fill valid product information to form.  - Name course:    - Hours: 3  - IDteacher: 2. Click "Update" button. | 1. Display the message No.3 2. Can not update course. | Connect with server - Already logged in with role admin | Pass | 8/6/2022 | TBNGOC |

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| **Feature** | Update Information | | | |  |  |  |
| **Test requirement** | Test function update information in roles student |  |  |  |  |  |  |
| **Reference Document** |  | | | |  |  |  |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  |  |  |
| 3 | 0 | -1 | 0 | 2 |  |  |  |
|  |  |  |  |  |  |  |  |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | **Test date** | **Tester** |
| **Admin account** |  |  |  |  |  |  |  |
| [Update Info-1] | Check screen "Infomation course" | 1. Login to student account. 2. Click "Infomation" on sidebar. 3. Click "Information " on Information bar. | 1. Redirect to the "Information " page | 1. Connect with server 2. Already logged in with role student | Pass | 8/6/2022 | TBNGOC |
| [Update Info-2] | Update information with valid information | 1. Fill valid product information to form.  - First Name:Le do   - Last Name: hi   - Phone: 45560456  - Data of birth : 10/5/2000  - Gender: Male  - UserName : levado - password : levando - ….. 2. Click "Update" button | 1. Infomation has been updated.  2. Show updated information. | Connect with server - Already logged in with role student | Pass | 8/6/2022 | TBNGOC |
| [Update Info-3] | Update information with invalid information (information is null) | 1. Fill valid product information to form.  - First Name:   - Last Name: hi   - Phone:   - Data of birth : 10/5/2000  - Gender: Male  - UserName : levado - password : levando - ….. 2. Click "Update" button | 1. Display the message No.3 2. Can not update information. | Connect with server - Already logged in with role student | Pass | 8/6/2022 | TBNGOC |

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| **Feature** | ChangePassword | | | | |  | |  |  | | |
| **Test requirement** | Test function change password in roles teacher, admin and student | | | | |  | |  |  | | |
| **Reference Document** |  | | | | |  | |  |  | | |
| ***Pass*** | ***Fail*** | ***Untested*** | ***N/A*** | ***Number of Test cases*** |  | |  | | |  |
| 2 | 0 | 0 | 0 | 2 |  | |  | | |  |
|  |  |  |  |  |  | |  | | |  |
| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected Results** | **Inter-test case Dependence** | **Result** | | **Test date** | | | **Tester** |
| **Admin, Staff and User account** |  |  |  |  |  | |  | | |  |
| [ChangePassword-1] | Change Password with right pattern | 1. Login to account. 2. Go to "Change password" screen. 3. Fill old password and new password. 4. Click "OK" button. | 1. Change password successfully. | - Connect with server - Already logged in amin, teacher or student | Pass | | 9/6/2022 | | | TBNGOC |
| [ChangePassword-2] | Change Password with confirm password does not match the new password | 1. Login to account. 2. Go to "Change password" screen. 3. Fill old password and new password.  - Nhập lại cũ: 123456.  - Mật khẩu mới: 1579133. 4. Click "OK" button. | 1. Display the message No.4 2. The password cannot be updated. | - Connect with server - Already logged in amin, teacher or student | Pass | | 9/6/2022 | | | TBNGOC |

Message:

|  |  |
| --- | --- |
| **ID** | **Message** |
| No.1 | your name and password are not exists |
| No.2 | need logging data |
| No.3 | Empty field |
| No.4 | Password not match |