

# Online Test System

User Manual

Group 5

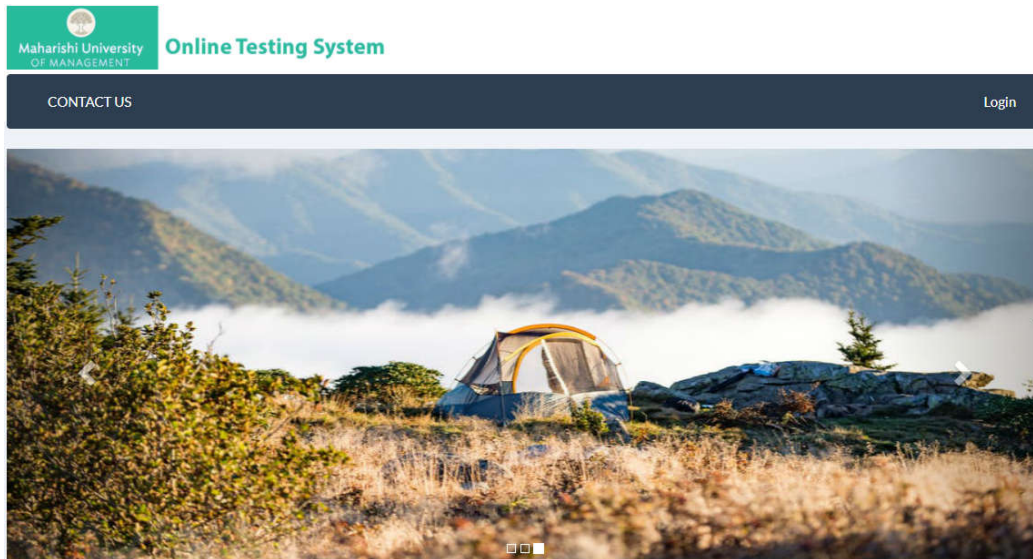
## Contents

1.	Introduction .....	3
2.	Admin Manual .....	4
2.1	Edit Profile .....	4
2.2	Manage Users.....	4
	2.2.1 Check Existing Users.....	5
	2.2.2 Add One User .....	5
2.3	Manage Students .....	6
	2.3.1 Check Existing Students .....	6
	2.3.2 Register New Student .....	7
	2.3.3 Import Students by Excel File.....	7
2.4	Manage Categories.....	8
	2.4.1 Check Existing Categories.....	8
	2.4.2 Add Categories.....	9
	2.4.3 Check Existing Sub Categories.....	9
	2.4.4 Add Sub Categories .....	10
2.5	Manage Questions .....	11
	2.5.1 Check Existing Questions .....	11
	2.5.2 Add a Question.....	11
	2.5.3 Import Questions by Excel file .....	12
2.6	Check Assignments .....	13
2.7	Check Test Results .....	13
3.	DBA Manual .....	14
3.1	Edit Profile .....	14
3.2	Manage Questions .....	15
	3.2.1 Check the existing question .....	15
	3.2.2 Add a New Question .....	15
	3.2.3 Import Questions by Excel File.....	16
4.	Coach Manual .....	16

---

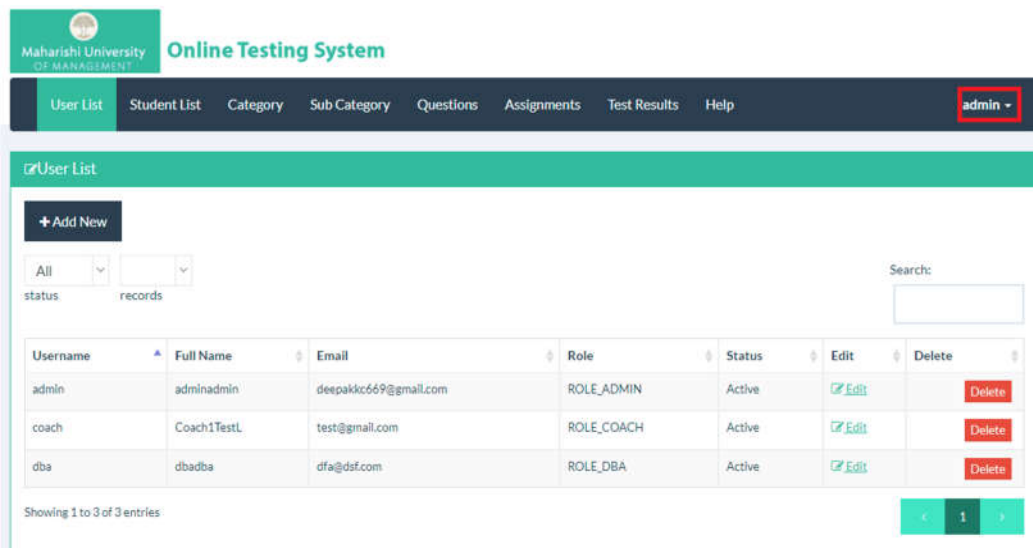
4.1	Edit Profile .....	17
4.2	Manage Students .....	17
	4.2.1 Check Existing Students .....	18
	4.2.2 Register a New Student.....	18
	4.1.3 Import Students by Excel File.....	19
4.3	Manage Questions .....	19
	4.3.1 Check the existing question .....	19
	4.3.2 Add a Question.....	20
	4.3.3 Import Questions by Excel file .....	21
4.4	Generate Assignment to Student.....	21
4.5	Check Out Assignments.....	22
	4.5.1 Check Out If the Student Take the test .....	23
	4.5.2 Check Out All the Test Result .....	24
		24
5.	Student Manual.....	24
5.1	Take the Test .....	24
6.	Revision History.....	27

# 1. Introduction



This document is the User Manual of the **MUM Online Test System**. MUM Online Test System is used for job-seeking students to help review the interview questions (for example, Java and JavaScript).

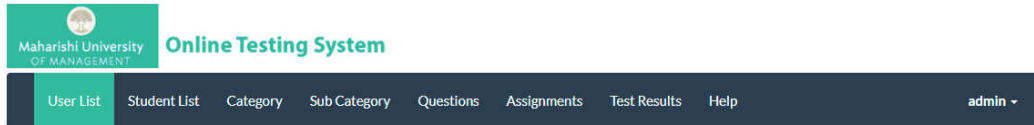
There are 4 types of roles in the system: **Admin, DBA, Coach and Student**. You could find who you are in the right corner of the window.



Admin, DBA and Coach are the administrators of the system, which are usually handled by university staff. Student means the MUM students who are doing job seeking, which will take part in the test once they receive the test link from email triggered by university staff from whom that holds the Coach Account.

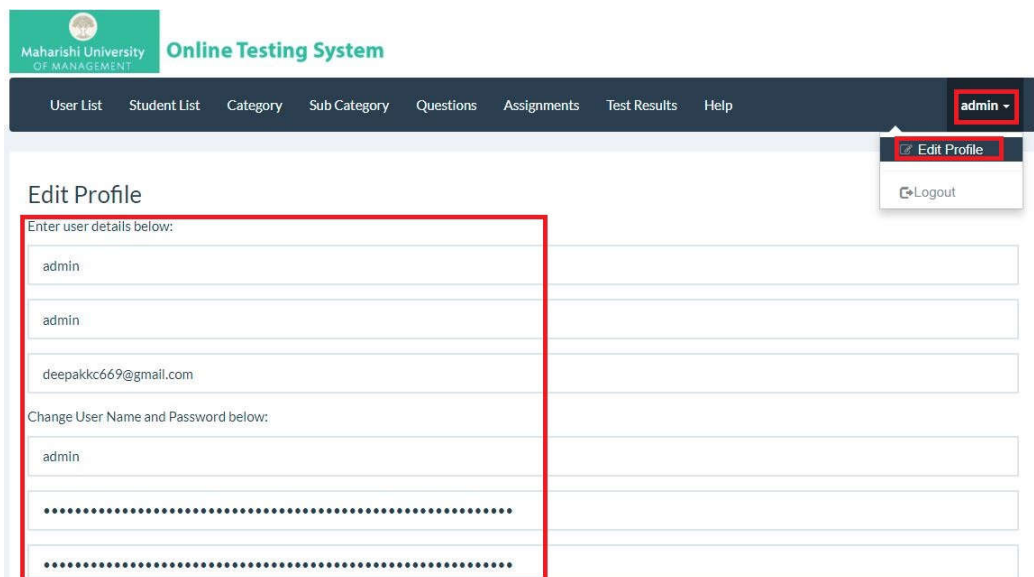
## 2. Admin Manual

Admin user is the super user of the system. Please check the function of the Admin User below:



### 2.1 Edit Profile

As an admin you are able to edit your own profile including changing your password.

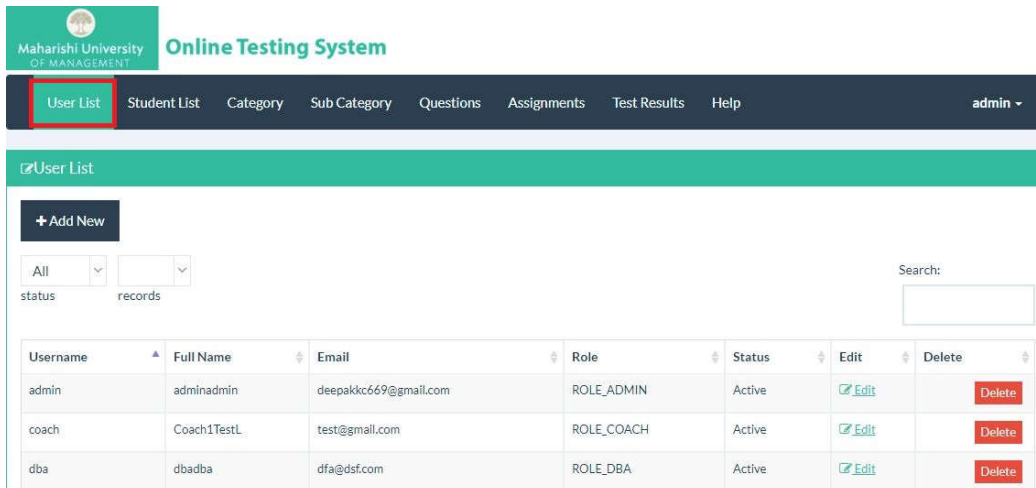


### 2.2 Manage Users

Admin user could manage all the other 3 types of users (Coach, DBA and Student).

## 2.2.1 Check Existing Users

You could check the users that are already stored in the system. Reminder: Users here concludes all Admin, Coach and DBA users.



**Online Testing System**

User List Student List Category Sub Category Questions Assignments Test Results Help admin

**User List**

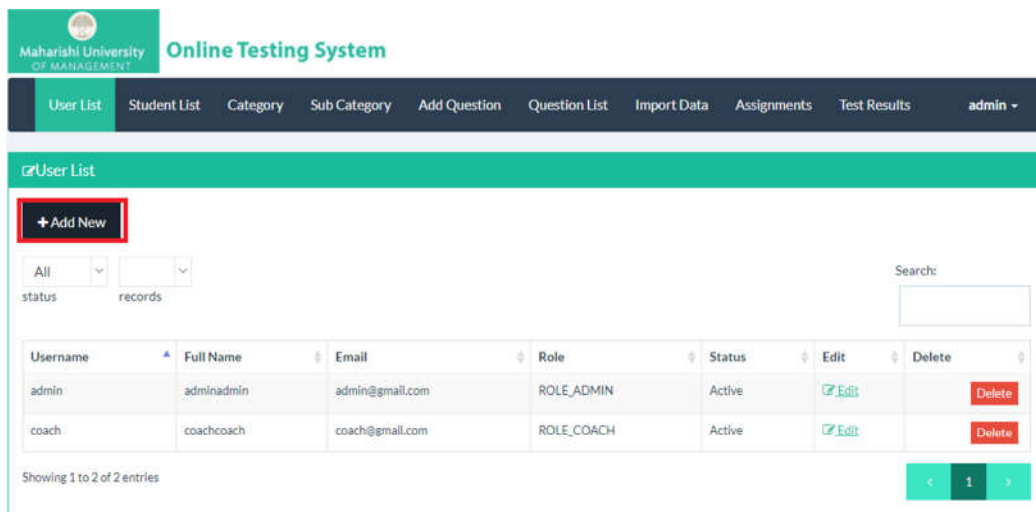
+ Add New

All status records Search:

Username	Full Name	Email	Role	Status	Edit	Delete
admin	adminadmin	deepakkc669@gmail.com	ROLE_ADMIN	Active	<a href="#">Edit</a>	<a href="#">Delete</a>
coach	Coach1TestL	test@gmail.com	ROLE_COACH	Active	<a href="#">Edit</a>	<a href="#">Delete</a>
dba	dbadba	dfa@dsf.com	ROLE_DBA	Active	<a href="#">Edit</a>	<a href="#">Delete</a>

## 2.2.2 Add One User

By clicking the Add New button, you are able to add a new user and assign him the role of Admin, Coach or DBA.



**Online Testing System**

User List Student List Category Sub Category Add Question Question List Import Data Assignments Test Results admin

**User List**

+ Add New

All status records Search:

Username	Full Name	Email	Role	Status	Edit	Delete
admin	adminadmin	admin@gmail.com	ROLE_ADMIN	Active	<a href="#">Edit</a>	<a href="#">Delete</a>
coach	coachcoach	coach@gmail.com	ROLE_COACH	Active	<a href="#">Edit</a>	<a href="#">Delete</a>

Showing 1 to 2 of 2 entries

< 1 >

### Add New User

Enter personal details below:

Julia

Chen

a@gmail.com

Enter your account details below:

julia

...

Role

ROLE\_DBA

Status

Active

CANCEL SUBMIT

## 2.3 Manage Students

**Students** here mean MUM students who are doing job seeking and taking tests on this system after **Coach** generates the test.

### 2.3.1 Check Existing Students

User List	Student List	Category	Sub Category	Add Question	Question List	Import Data	Assignments	Test Results	admin
Student List									
<div> <div>+ Add New</div> <div>+ Import Student</div> </div> <div> <div>All</div> <div></div> </div> <div> <div>status</div> <div>records</div> </div> <div> <div>Search:</div> <div></div> </div>									
Student ID	Full Name	Email	Year	Job Search Status	Edit	Delete			
985001	Stu01 Clark	test1@mum.edu	August 2016	Active	<a href="#">Edit</a>	<a href="#">Delete</a>			
985002	Stu02 Stark	test2@mum.edu	August 2016	Inactive	<a href="#">Edit</a>	<a href="#">Delete</a>			
985003	Stu03 Oven	test3@mum.edu	August 2016	Active	<a href="#">Edit</a>	<a href="#">Delete</a>			
985004	Stu04 Olive	test4@mum.edu	August 2016	Active	<a href="#">Edit</a>	<a href="#">Delete</a>			
985015	Stu05 Washinton	test5@mum.edu	October 2016	Active	<a href="#">Edit</a>	<a href="#">Delete</a>			
985066	Stu06 Trouble	test6@mum.edu	January 2017	Active	<a href="#">Edit</a>	<a href="#">Delete</a>			

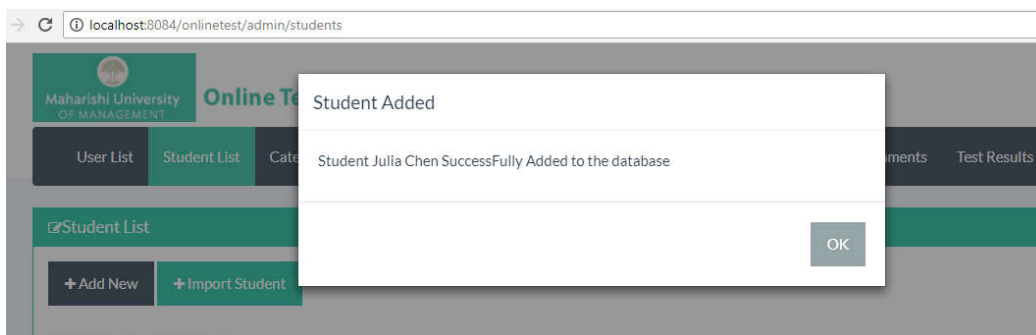
## 2.3.2 Register New Student

Click the **Add New** Button under **Student List** Menu



Input the student information

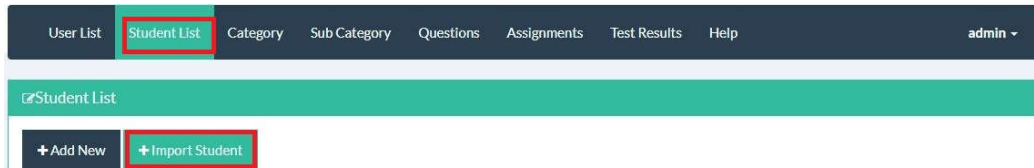
Click **Submit** Button, system will save the added Student.



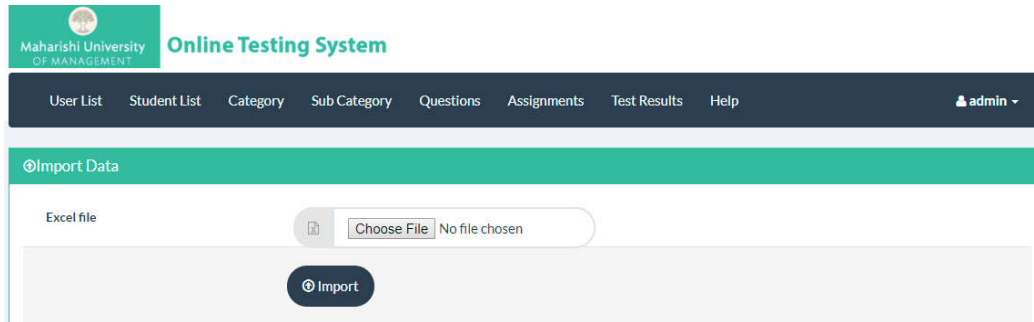
## 2.3.3 Import Students by Excel File

You could import a big amount of students by using **Import Student** Button.





Click the **Choose File** button.



Get ready for the file with the format shown below:

Student List Data columns.xlsx						
	A	B	C	D	E	F
1	Student-ID	First Name	Last Name	Email	Entry Year	Job Search Status
2						
3	981234	Joseph	Anderson	janderson@gmail.com	2017	Active

## 2.4 Manage Categories

Every question belongs to a **Sub Category**, and each Sub Category belongs to a **Category**.

### 2.4.1 Check Existing Categories

You could check the existing categories

The screenshot shows the 'Online Testing System' interface. The top navigation bar includes 'User List', 'Student List', 'Category', 'Sub Category' (highlighted with a red box), 'Questions', 'Assignments', 'Test Results', and 'Help'. Below the navigation bar, the 'Sub Category List' section is visible. It features an 'Add New +' button, a search bar, and a table with columns for 'Sub Category', 'Category', and 'Delete'.

Sub Category	Category	Delete
C#	DOT Net	<a href="#">Delete</a>
Core	Java	<a href="#">Delete</a>
Hibernate	Java	<a href="#">Delete</a>

## 2.4.2 Add Categories

The first screenshot shows the 'Online Testing System' interface with the 'Category' tab highlighted in the navigation bar. Below the navigation bar, the 'Category List' section is visible, featuring an 'Add New +' button highlighted with a red box.

The second screenshot shows the 'Online Testing System' interface with the 'Category' tab highlighted. Below the navigation bar, the 'Create new Category' section is visible. It includes a text input field with the text 'd' and a list of suggestions: C, C++, and C#. A 'SUBMIT' button is located to the right of the input field.

## 2.4.3 Check Existing Sub Categories

Each Sub Category belongs to one Category.

Navigation: User List Student List Category **Sub Category** Questions Assignments Test Results Help admin

### Sub Category List

Add New +

records Search:

Sub Category	Category	Delete
C#	DOT NET	Delete
Core	Java	Delete
JAVA	Java	Delete
JSP	Java	Delete
PHP	PHP	Delete
Servlet	Java	Delete
Spring	Java	Delete

## 2.4.4 Add Sub Categories

Maharishi University OF MANAGEMENT Online Testing System

Navigation: User List Student List Category **Sub Category** Questions Assignments Test Results Help admin

### Sub Category List

Add New +

### Create new Subcategory

Enter information below:

Choose Category

Java

JDBC

SUBMIT

## 2.5 Manage Questions

### 2.5.1 Check Existing Questions

Navigation: User List Student List Category Sub Category **Questions** Assignments Test Results Help admin ▾

Question List

+ Add New + Import Questions

records  Search:

Question Id	Category	Sub Category	Question	Choices
1	Java	Core	Which of these is NOT a valid keyword or reserved word in Java	A. default B. null C. String D. volatile

### 2.5.2 Add a Question

Navigation: User List Student List Category Sub Category **Questions** Assignments Test Results Help admin ▾

Question List

+ Add New + Import Questions

records  Search:

Question Id	Category	Sub Category	Question	Choices
1	Java	Core	Which of these is NOT a valid keyword or reserved word in Java	A. default B. null C. String D. volatile

localhost:8084/online/test/dba/addquestion

### Add Question

Enter Question and its choices below:

Select Category

Sub Categories

Type the Question

Correct Answer(select Only one)

A. Type the Choice

B. Type the Choice

C. Type the Choice

## 2.5.3 Import Questions by Excel file

User List Student List Category Sub Category **Questions** Assignments Test Results Help admin

### Question List

+ Add New + Import Questions

records Search:

Question Id	Category	Sub Category	Question	Choices
1	Java	Core	Which of these is NOT a valid keyword or reserved word in Java	A. default B. null C. String D. volatile

Maharishi University OF MANAGEMENT Online Testing System

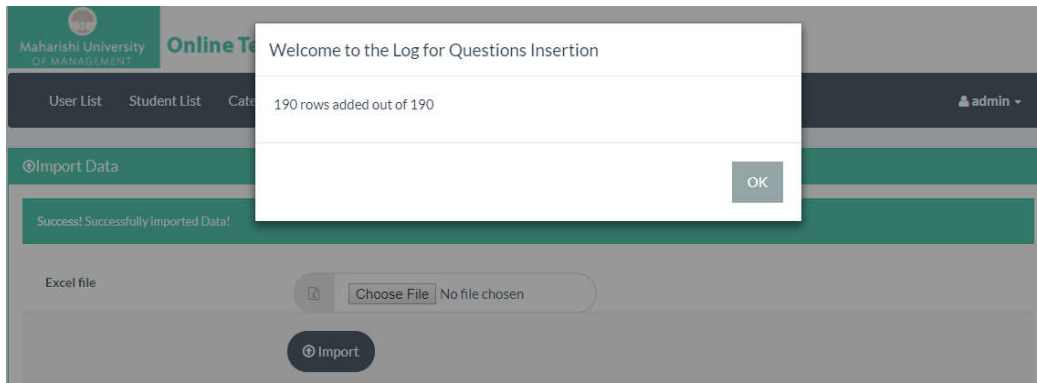
User List Student List Category Sub Category **Questions** Assignments Test Results Help admin

### Import Data

Excel file

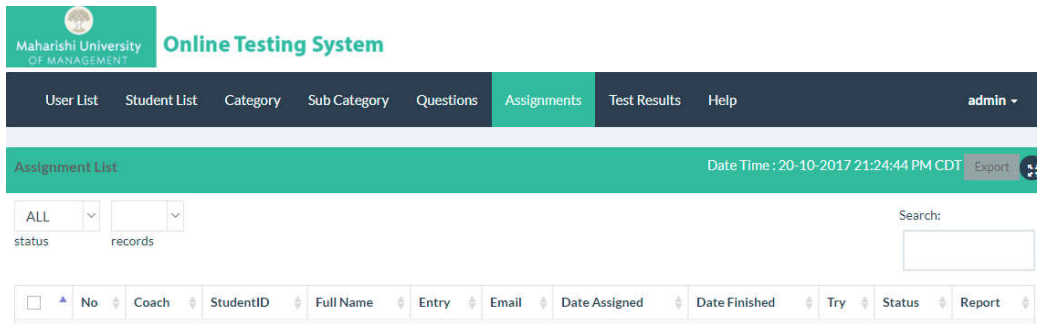
Choose File SelfAssess...ormat.xlsx

Import

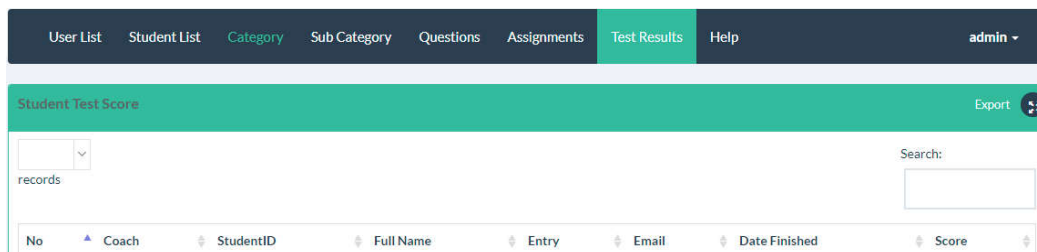


Please follow the format below to get ready for the document you want to upload.

## 2.6 Check Assignments



## 2.7 Check Test Results



## 3. DBA Manual

### 3.1 Edit Profile

As a DBA you are able to edit your own profile including change your password.

The screenshot displays the 'Edit Profile' interface of the Online Testing System. At the top, the Maharishi University of Management logo and 'Online Testing System' text are visible. A navigation bar includes links for User List, Student List, Category, Sub Category, Questions, Assignments, Test Results, and Help. The user 'admin' is logged in, and a dropdown menu shows 'Edit Profile' and 'Logout' options. The 'Edit Profile' form is divided into two sections: 'Enter user details below:' and 'Change User Name and Password below:'. The first section contains three input fields with the following values: 'admin', 'admin', and 'deepakkc669@gmail.com'. The second section contains three input fields: 'admin', a password field with dots, and another password field with dots. A red box highlights the first section of the form.

Maharishi University  
OF MANAGEMENT Online Testing System

User List Student List Category Sub Category Questions Assignments Test Results Help admin

Edit Profile Logout

Edit Profile

Enter user details below:

admin

admin

deepakkc669@gmail.com

Change User Name and Password below:

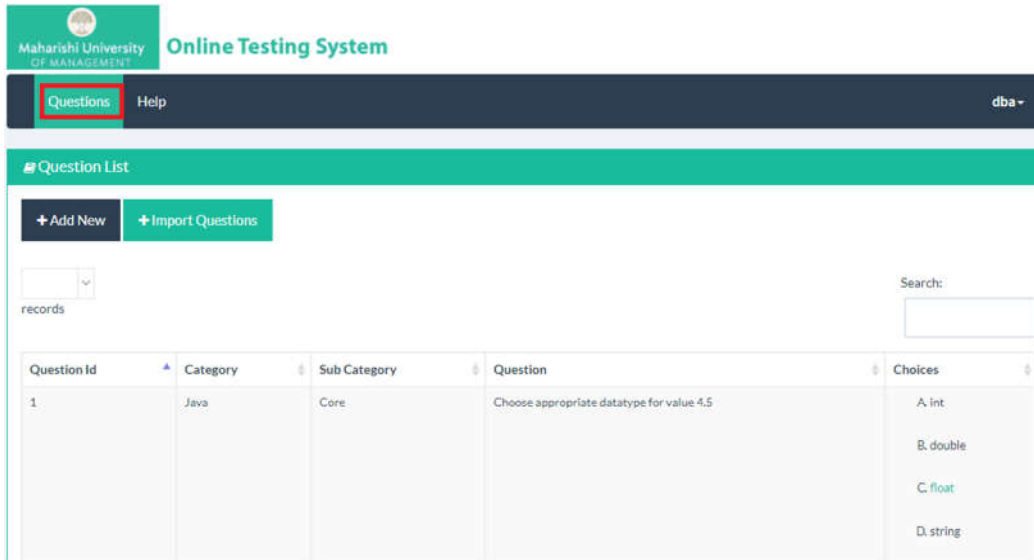
admin

.....

.....

## 3.2 Manage Questions

### 3.2.1 Check the existing question



The screenshot shows the 'Online Testing System' interface. The 'Questions' tab is selected and highlighted with a red box. Below the header, there are buttons for '+ Add New' and '+ Import Questions'. A search bar is present with the text 'Search:'. Below the search bar, there is a table with the following columns: Question Id, Category, Sub Category, Question, and Choices. The table contains one row with the following data:

Question Id	Category	Sub Category	Question	Choices
1	Java	Core	Choose appropriate datatype for value 4.5	A. int B. double C. float D. string

### 3.2.2 Add a New Question



The screenshot shows the 'Online Testing System' interface. The 'Questions' tab is selected and highlighted with a red box. Below the header, there are buttons for '+ Add New' and '+ Import Questions'. The '+ Add New' button is highlighted with a red box.



localhost:8084/online/test/dba/addquestion

### Add Question

Enter Question and its choices below:

Select Category ▼

Sub Categories ▼

Type the Question

Correct Answer(select Only one)

A.  ☐

B.  ☐

C.  ☐

### 3.2.3 Import Questions by Excel File

Maharishi University OF MANAGEMENT Online Testing System

Questions Help dba ▼

Question List

+ Add New + Import Questions

Maharishi University OF MANAGEMENT Online Testing System

Questions Help dba ▼

Import Data

Excel file  No file chosen

## 4. Coach Manual

Coach is responsible for generating the test for Students. Coach could also manage Student List,

Question List and check test results.

## 4.1 Edit Profile

As a Coach you are able to edit your own profile including change your password.

**Online Testing System**

User List Student List Category Sub Category Questions Assignments Test Results Help **admin**

**Edit Profile**

Enter user details below:

admin

admin

deepakkc669@gmail.com

Change User Name and Password below:

admin

.....

.....

**Edit Profile**

Logout

## 4.2 Manage Students

Students here mean MUM students who are doing job seeking.

Home **Students** Assignments Result List Questions Help **coach**

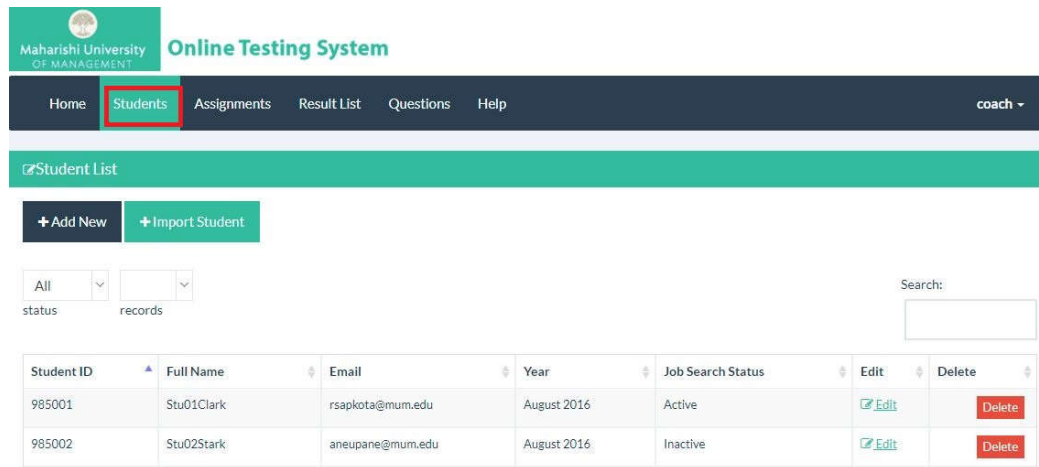
**Student List**

+ Add New + Import Student

All status records Search:

Student ID	Full Name	Email	Year	Job Search Status	Edit	Delete
985001	Stu01Clark	rsapkota@mum.edu	August 2016	Active	<a href="#">Edit</a>	<a href="#">Delete</a>
985002	Stu02Stark	aneupane@mum.edu	August 2016	Inactive	<a href="#">Edit</a>	<a href="#">Delete</a>

## 4.2.1 Check Existing Students



**Online Testing System**

Home **Students** Assignments Result List Questions Help coach ▾

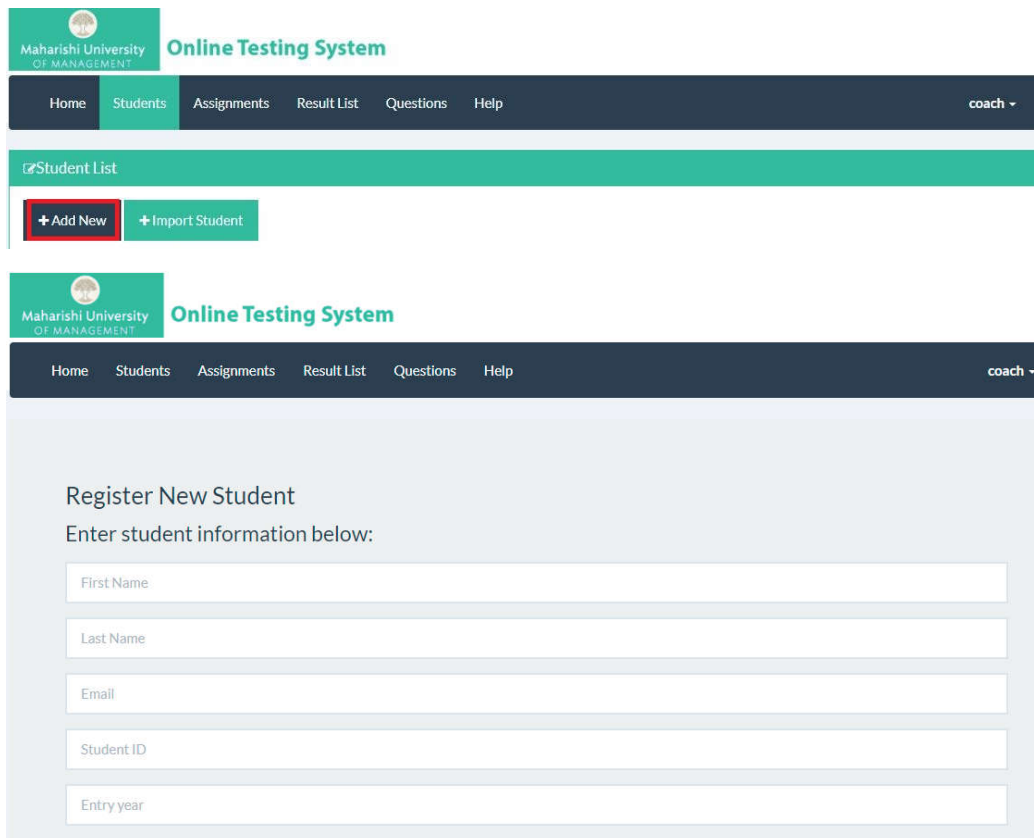
Student List

+ Add New + Import Student

All status records Search:

Student ID	Full Name	Email	Year	Job Search Status	Edit	Delete
985001	Stu01Clark	rsapkota@mum.edu	August 2016	Active	<a href="#">Edit</a>	<a href="#">Delete</a>
985002	Stu02Stark	aneupane@mum.edu	August 2016	Inactive	<a href="#">Edit</a>	<a href="#">Delete</a>

## 4.2.2 Register a New Student



**Online Testing System**

Home **Students** Assignments Result List Questions Help coach ▾

Student List

+ Add New + Import Student

**Register New Student**

Enter student information below:

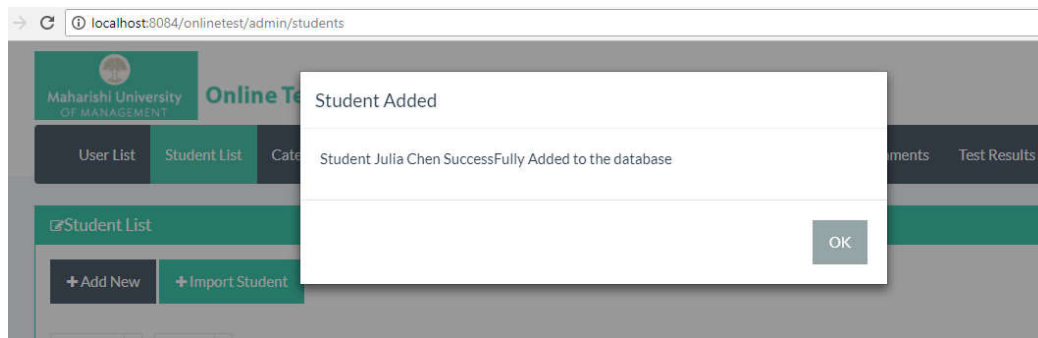
First Name

Last Name

Email

Student ID

Entry year



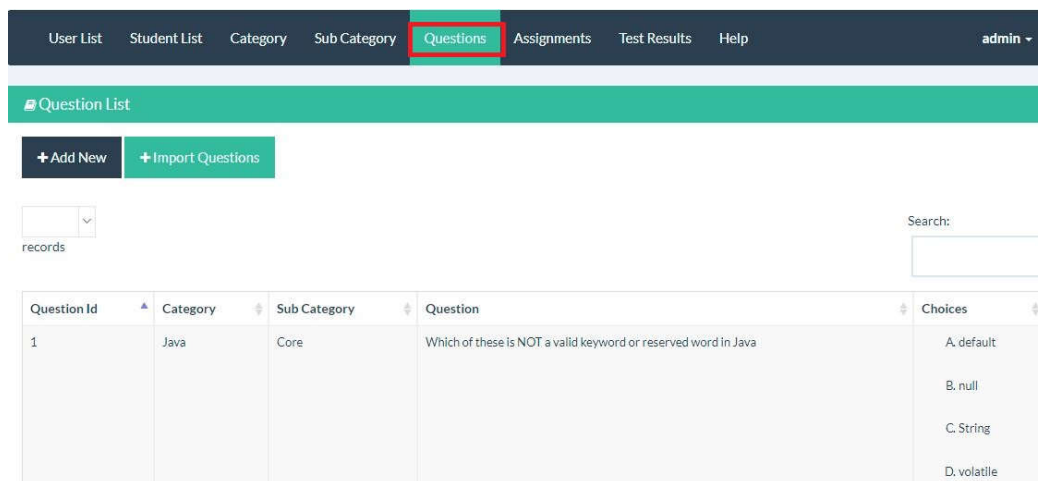
### 4.1.3 Import Students by Excel File

You could import a big amount of students by using **Import Student** Button.



## 4.3 Manage Questions

### 4.3.1 Check the existing question



## 4.3.2 Add a Question

[User List](#)
[Student List](#)
[Category](#)
[Sub Category](#)
[Questions](#)
[Assignments](#)
[Test Results](#)
[Help](#)

admin ▾

Question List

+ Add New

+ Import Questions

▾

records

Search:

Question Id	Category	Sub Category	Question	Choices
1	Java	Core	Which of these is NOT a valid keyword or reserved word in Java	A. default B. null C. String D. volatile

localhost:8084/online/test/dba/addquestion

### Add Question

Enter Question and its choices below:

Select Category

Sub Categories

Type the Question

Correct Answer(select Only one)

A.  Type the Choice ☐

B.  Type the Choice ☐

C.  Type the Choice ☐

### 4.3.3 Import Questions by Excel file

The screenshot shows the 'Questions' section of the Online Testing System. The 'Import Questions' button is highlighted with a red box. Below it is the 'Import Data' section, which includes a file upload area with a 'Choose File' button and a 'No file chosen' message. An 'Import' button is also visible.

Question Id	Category	Sub Category	Question	Choices
1	Java	Core	Which of these is NOT a valid keyword or reserved word in Java	A. default B. null C. String D. volatile

## 4.4 Generate Assignment to Student

Coach could choose a student and generate an assignment (a quiz test) to a certain student. The test link could be set to a certain time to send.

The screenshot shows the 'Student List' section of the Online Testing System. The 'Generate Test' button is highlighted with a red box. The table below lists students and their details.

Student ID	Full Name	Email	Job Search Status	Generate Test	Test History
980000	Julia Chen	juliachenjing@gmail.com	Active	<a href="#">Generate Test</a>	<a href="#">Test History</a>

Home Students Assignments Result List Questions Help coach ▾

### Student Assignment Details

Student: 980000

Student Name: Julia Chen

Student Email: juliachenjing@gmail.com

Access Link:

Access Code:

Date & Time:

Then the email will be sent to the certain student at the chosen time.

Maharishi University OF MANAGEMENT Online Testing System

Home Students Assignments Result List Questions Help coach ▾

### Student Assignment Details

Student: 980000

Student Name: Julia Chen

Student Email: juliachenjing@gmail.com

Access Link:

Access Code:

Date & Time:

Success!

Test is generated and data will be send to the student as scheduled!

Close

## 4.5 Check Out Assignments

Home Students **Assignments** Result List Questions Help coach ▾

# Assignment List Date Time : 21-10-2017 11:05:59 AM CDT Export

ALL status records Search:

<input type="checkbox"/>	No	Coach	StudentID	Full Name	Entry	Email	Date Assigned	Date Finished	Try	Status	Report
<input type="checkbox"/>	1	coach	985001	Julia Chen	August 2016	juliachenjing@gmail.com			0	A	
<input type="checkbox"/>	2	coach	985003	Bimal Parajuli	August 2016	bimalparajulise@mum.edu			0	A	

### 4.5.1 Check Out If the Student Take the test

Maharishi University OF MANAGEMENT Online Testing System

Home Students Assignments Result List Questions Help coach

#### Student List

5 records

Search:

Student ID	Full Name	Email	Job Search Status	Generate Test	Test History
985001	Julia Chen	jullachenjing@gmail.com	Active	<a href="#">Generate Test</a>	<a href="#">Test History</a>
985003	Bimal Parajuli	bimalparajulise@mum.edu	Active	<a href="#">Generate Test</a>	<a href="#">Test History</a>
985004	Stu04 Stu04	test4@mum.edu	Active	<a href="#">Generate Test</a>	<a href="#">Test History</a>
985015	Stu05 Stu05	test5@mum.edu	Active	<a href="#">Generate Test</a>	<a href="#">Test History</a>
985066	Stu06 Stu06	test6@mum.edu	Active	<a href="#">Generate Test</a>	<a href="#">Test History</a>

Showing 1 to 5 of 5 entries

< 1 >

Maharishi University OF MANAGEMENT Online Testing System

Home Students Assignments Result List Questions Help coach

#### Category List

Student ID: 985001  
Student Name: Julia Chen  
Entry: August 2016

records

Search:

Assignment ID	Coach Name	Access Code	Start Time	End Time	Finished
1	coach coach	2UJxFwWHbP	2017-10-21T11:14:11	2017-10-21T11:16:41	true



## 4.5.2 Check Out All the Test Result

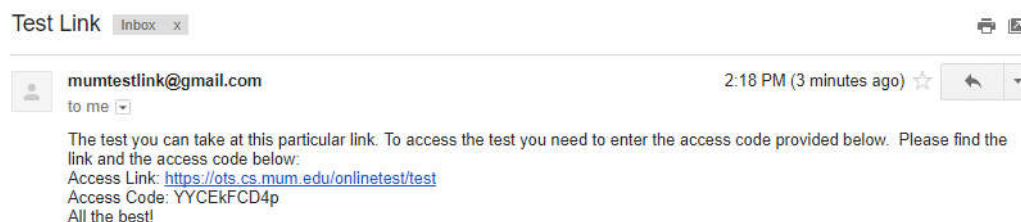
No	Coach	StudentID	Full Name	Entry	Email	Date Finished	Score
1	coach	985003	Bimal Parajuli	August 2016	blmalparajulise@mum.edu	2017-10-21T11:17:52	0
2	coach	985001	Julia Chen	August 2016	juliachenjing@gmail.com	2017-10-21T11:16:41	26

## 5. Student Manual

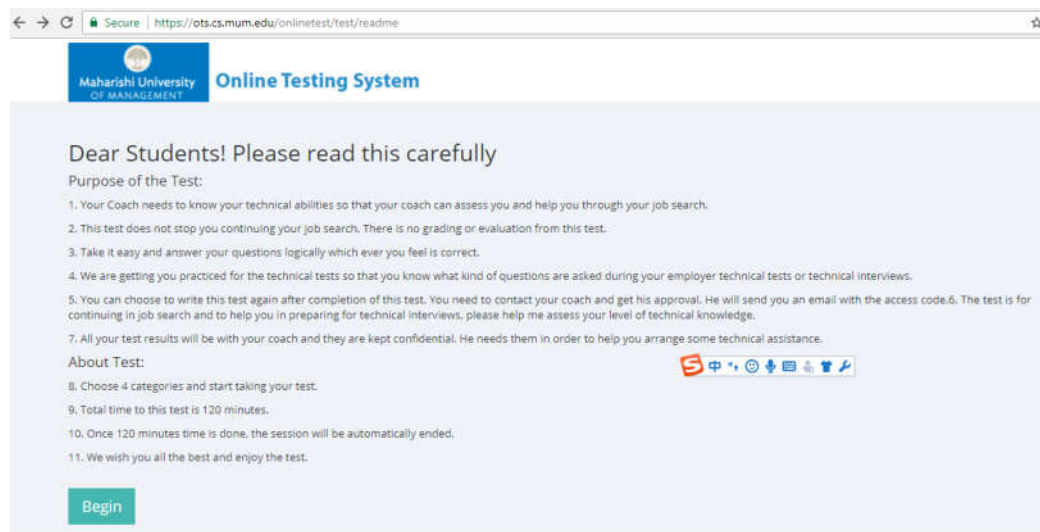
### 5.1 Take the Test

As a student who is doing job seeking, every now and then **Coach** will generate some online test to help you find the weak point of your knowledge tree. All you need is to follow the guide below:

After the coach generates the test, you will receive the link and Access Code in your email:



Click the link, and you will see the guidance:



The screenshot shows a web browser window with the URL <https://ots.cs.mum.edu/online/test/readme>. The page header includes the Maharishi University of Management logo and the title "Online Testing System". The main content area has a heading "Dear Students! Please read this carefully" followed by a section "Purpose of the Test:" and a list of seven points. Below this is a section "About Test:" with a list of five points. A "Begin" button is located at the bottom left of the content area. A small toolbar with various icons is visible on the right side of the "About Test:" section.

Secure | <https://ots.cs.mum.edu/online/test/readme>

Maharishi University OF MANAGEMENT Online Testing System

Dear Students! Please read this carefully

Purpose of the Test:

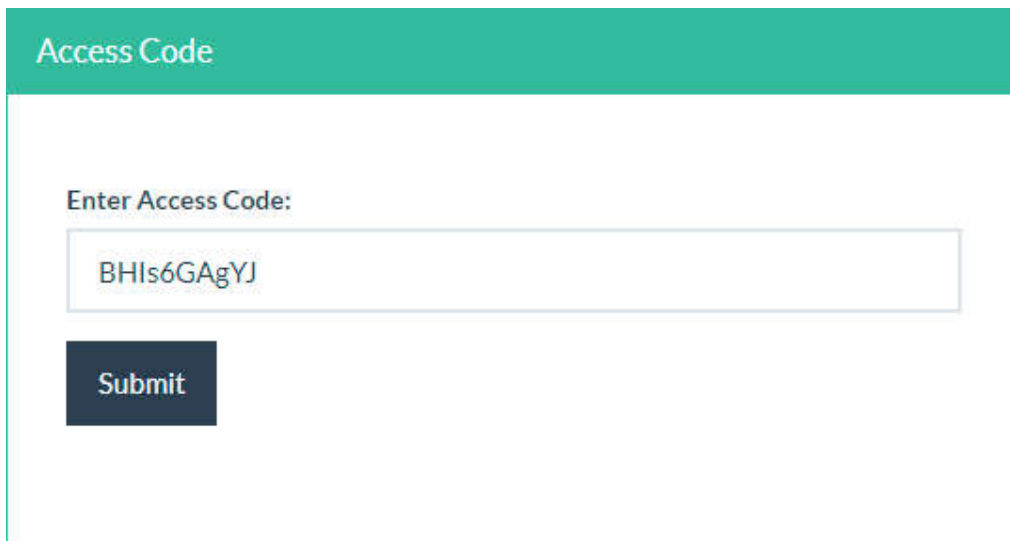
1. Your Coach needs to know your technical abilities so that your coach can assess you and help you through your job search.
2. This test does not stop you continuing your job search. There is no grading or evaluation from this test.
3. Take it easy and answer your questions logically which ever you feel is correct.
4. We are getting you practiced for the technical tests so that you know what kind of questions are asked during your employer technical tests or technical interviews.
5. You can choose to write this test again after completion of this test. You need to contact your coach and get his approval. He will send you an email with the access code.6. The test is for continuing in job search and to help you in preparing for technical interviews. please help me assess your level of technical knowledge.
7. All your test results will be with your coach and they are kept confidential. He needs them in order to help you arrange some technical assistance.

About Test:

8. Choose 4 categories and start taking your test.
9. Total time to this test is 120 minutes.
10. Once 120 minutes time is done, the session will be automatically ended.
11. We wish you all the best and enjoy the test.

Begin

Input the Access Code shown in mail:



The screenshot shows a web form titled "Access Code" in a green header. Below the header, there is a section "Enter Access Code:" with a text input field containing the code "BHIs6GAgYJ". Below the input field is a dark blue "Submit" button.


Access Code

Enter Access Code:

BHIs6GAgYJ

Submit

localhost:8084/onetest/test/showcategories

 **Online Testing System**

## Please select 3 to 4 sub categories

Java

- ☒ Core
- ☒ JSP
- ☐ Servlet
- ☒ Spring

**Submit**

Student Name: Julia Chen

Time Remaining :118 Minute 37 Seconds

Questions 44/60


Unit test case types in C# include

- ☐ Additive Test cases, Reductive Test cases, Exception Test cases
- ☐ Additive Test cases, Reductive Test cases, Non Change Test cases
- ☐ Positive Test cases, Negative Test cases, Exception Test cases
- ☐ Model Test cases, View Test cases, Controller Test cases

**Previous****Next**

Please double check before you submit your answers to grade:

localhost:8084/onetest/test/test

 **Online Test System**

Student Name: Julia Chen

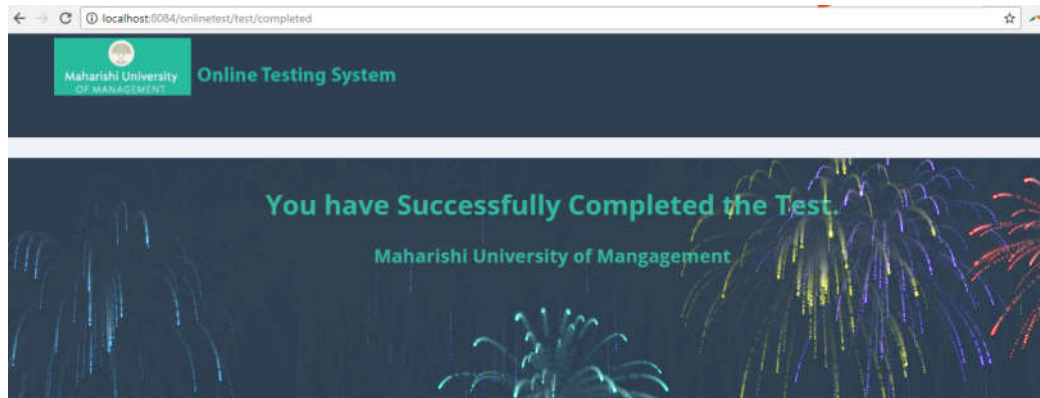
Questions 3/3

Time Remaining :119 Minute 13 Seconds

Confirm Header

Do you want to submit for grading?

**Close** **Confirm**



## 6. Revision History

Version	Date	Author	Description	Approver
V1.0	10/19/2017	Julia	First Version	