

Semester Registration

Created by Mkhuseleli Ngetu with Visual Studio 2019

(Community Edition)

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REQUIREMENTS

Minimum

OS (Operating System): Windows 10

IDE/Coding Platform: Visual Studio 2019 (Community Edition)

Storage: 20MB

RAM: 6GB

Database Management Software: Microsoft SQL Server Management Studio 18

Database Software: Microsoft SQL Server 2019

Source Code and Class Library (included in the submission of the POE).

A working keyboard with the F1 to F12 keys still working.

Recommended

OS (Operating System): Windows 10

IDE/Coding Platform: Visual Studio 2019 (Professional Edition)

Storage: More than 20 MB

RAM: 8GB +

Database Management Software: Microsoft SQL Server Management Studio 18

Database Software: Microsoft SQL Server 2019

Source Code and Class Library (included in the submission of the POE).

A fully functional keyboard with the F1 to F12 keys still functional.

HOW TO COMPILE

How to compile the database

1. Turn on your computer and login to your operating system.
2. Open Microsoft SQL Server Management Studio 18.
3. When asked to connect to a server :
 - 3.1 Set the server type to 'Database Engine'.
 - 3.2 Set the server's name to be the name of your computer.
 - 3.3 Set the authentication to 'Windows Authentication'.
 - 3.4 Enter your username at the 'User name' entry box and your password at the 'Password' entry box.

PLEASE NOTE: Your default username when logging in to Microsoft SQL Server Management Studio is your computer name\username. For your password, by default you do not have a password set , so leave the 'Password' entry box empty.

4. Click the 'Connect' button and wait for the program to load.
5. Press CTRL+O at the same time on your keyboard.
6. Find the submission folder named PROG6212 POE Mkhuseleli Ngetu 20108278.
7. Select the folder PROG6212 POE Mkhuseleli Ngetu 20108278.
8. Enter the folder and look for a file named ModuleStorageDatabase.sql. Once found, click the 'Open' button and wait for the program to load.
9. Select the first two lines of code and press F5 on your keyboard.
10. Select the third line of code and press F5 on your keyboard.
11. Select the rest of the lines of code and press F5 on your keyboard.

12. Press CTRL+O the same time on your keyboard.
 - 12.1 Find the file named SP_CreateANewStudent.sql in the submission folder, select the file and click 'Open'.
 - 12.2 Press F5 on your keyboard.
13. Press CTRL+O at the same time on your keyboard.
 - 13.1 Find the file named SP_StudentLogin.sql in the submission folder, select the file and click 'Open'.
 - 13.2 Press F5 on your keyboard.
14. Press CTRL+O at the same time on your keyboard.
 - 14.1 Find the file named SP_UpdateRemainingSelfStudyHours.sql in the submission folder, select the file and click 'Open'.
 - 14.2 Press F5 on your keyboard.
15. Press CTRL+O at the same time on keyboard.
 - 15.1 Find the file named SP_UpdateRemainingSelfStudyHoursPersonal.sql in the submission folder, select the file and click 'Open'.
 - 15.2 Press F5 on your keyboard.
16. Press CTRL+O at the same time on keyboard.
 - 16.1. Find the file named SP_AddReminder.sql in the submission folder, select the file and click 'Open'.
 - 16.2. Press F5 on your keyboard.
17. Close the program by clicking the cross(x) button at the top right of the program.

How to compile the application with the database

1. Open Visual Studio 2019.
2. Select the 'Open a project or solution' option.
3. Look for the submission folder named PROG6212 POE Mkhuseleli Ngetu 20108278.
4. Look within the submission folder and select the file named Semester Registration.sln .
5. Wait for the program to load.
6. After the program has loaded, press CTRL+Alt+S at the same time on your keyboard.
7. Right click on the text 'Data Connections' and select the 'Add Connection...' option.

PLEASE NOTE: If you are asked for a data source, select 'Microsoft SQL Server' and press the 'OK' button. If you already has a data source set, change it by clicking the change button, select 'Microsoft SQL Server' and press the 'OK'.

8. In the server name entry box, under the text 'Server name:', enter the name of your computer.
9. In the select or enter a database name entry box, under the text 'Select or enter a database name:', enter the name 'ModuleStorage'.
10. Click the 'OK' button.
11. Press Alt+Enter at the same time on your keyboard, after you have clicked the 'OK' button.
12. Go down to the 'Connection String' tab, under the text 'Connection', and right click twice next to the 'Connection String' tab. Select the 'Select All' option and press CTRL+C at the same time on your keyboard.
13. Left click twice on the file named 'Ngetu20108278ClassLibrary.cs', under the folder named 'Models'.
14. Look for the 'TheDatabases' class and find the variable named 'LiveConnectionToDatabase'.
15. In-between the quotation marks , press CTRL+V at the same time on your keyboard.
16. Press CTRL+S at the same time on your keyboard.

17. Press CTRL+B at the same time on your keyboard, to compile the program.

HOW TO RUN

How to set the start date of the semester and number of weeks of the semester


1. Press F5 on your keyboard.
2. Once the program has loaded, click on 'Create Modules'.
3. Enter the start date of the semester and the number of weeks in the semester.
4. After you have entered these fields, click the 'Set Start Date & Number Of Weeks' button to set the start date and number of weeks in the semester.

Semester Registration Home Create Modules Record Self Study Hours Login Register Set Study Reminder Logout **You Are Not Logged In**

Create Modules

Semester Start Date : Has not been set set

Number of Weeks in Semester: Has not been set yet

Set the start date the semester 

Set the number of weeks in the semester

Enter the code of the module

Enter the name of the module

Set the number of credits of the module

Set the number of recommended class hours per week

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Windows taskbar: Type here to search | Taskbar icons: File Explorer, Edge, Word, PowerPoint, Outlook, Chrome | System tray: Network, Volume, Keyboard, Language (ENG), Date/Time (15:42 2021/11/16)

Figure 1: How to set the start date of the semester and the number of weeks in the semester.

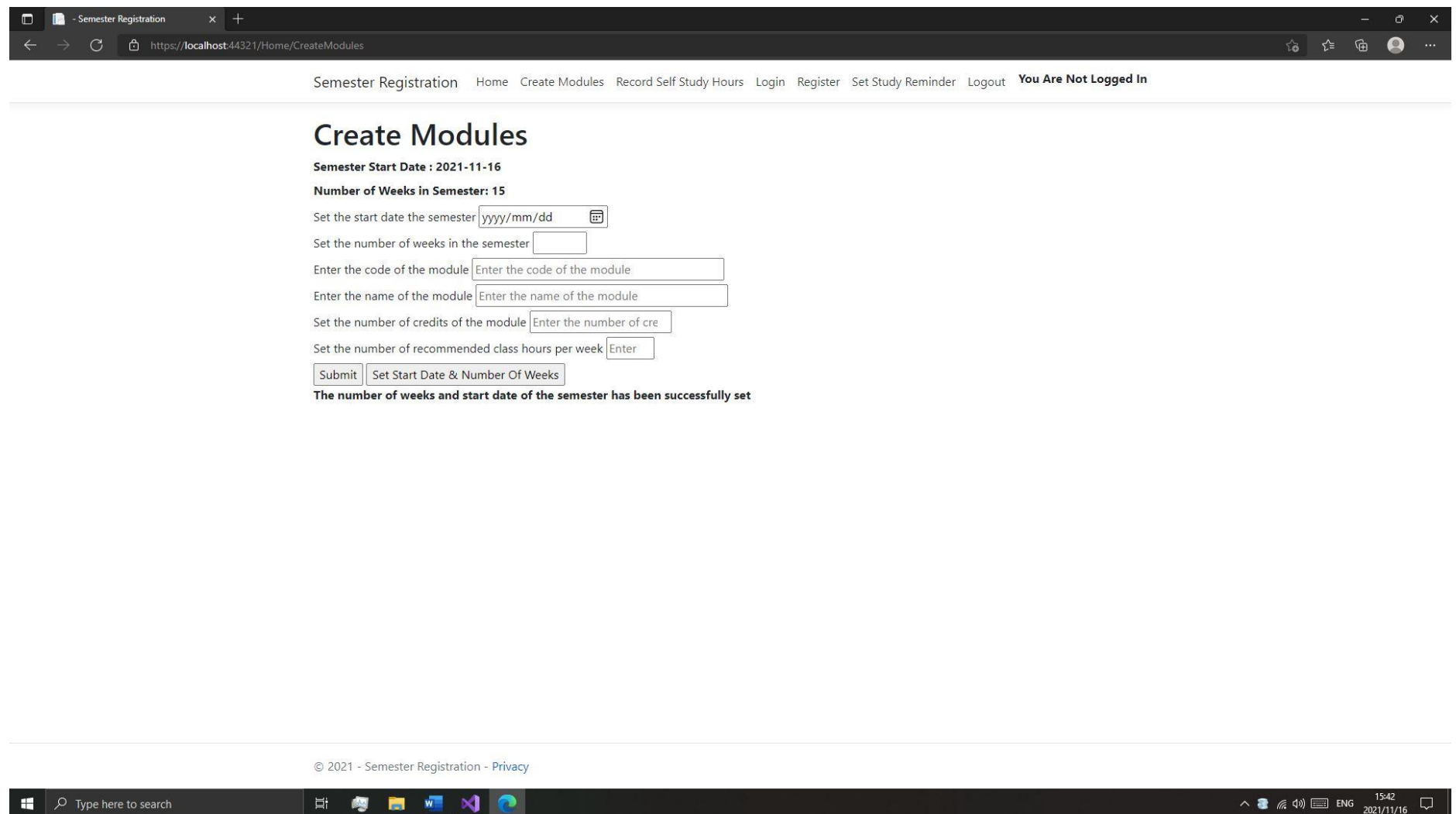


Figure 2: Create Modules webpage if the start date of the semester and number of weeks have been set successfully.

How to create modules

1. After you have set the start date of the semester and number of weeks in the semester, enter the code of your module.
2. Enter the name of your module.
3. Enter the number of credits for your module.
4. Enter the number of recommended class hours for your module.
5. After you have filled all of these fields, click the 'Submit' button to create a module.

NOTE : This process works exactly the same when you are not logged in to your user account and when you are logged in to your user account. All newly created modules are displayed on the Home page (starting page) of the application.

Semester Registration

Home

Create Modules

Record Self Study Hours

Login

Register

Set Study Reminder

Logout

You Are Not Logged In

Create Modules

Semester Start Date : 2021-11-16

Number of Weeks in Semester: 15

Set the start date the semester

Set the number of weeks in the semester

Enter the code of the module

Enter the name of the module

Set the number of credits of the module

Set the number of recommended class hours per week

Submit

Set Start Date & Number Of Weeks

The number of weeks and start date of the semester has been successfully set

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Figure 3: How to create a module.

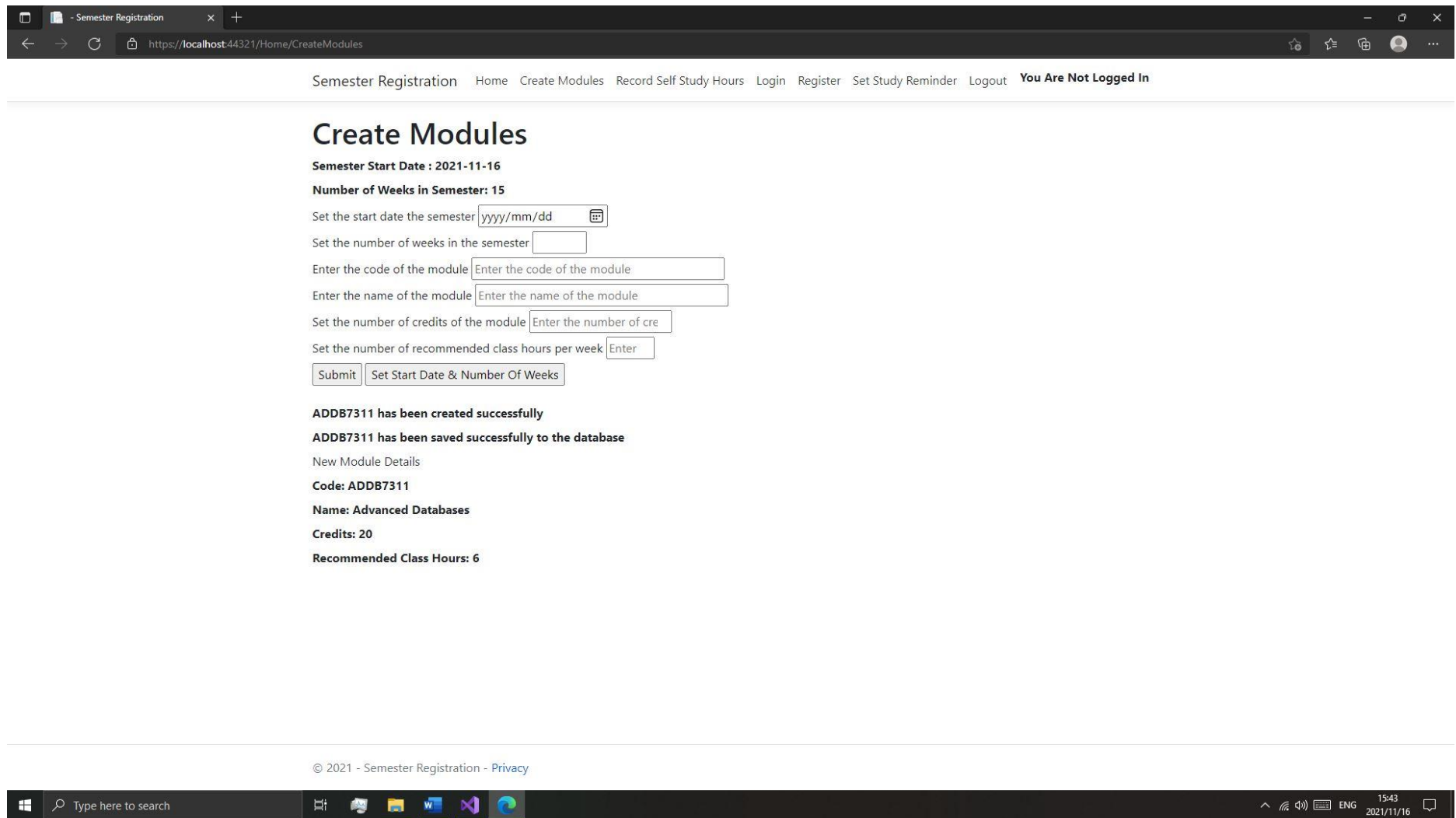


Figure 4: Create Modules webpage if the module has been created successfully.

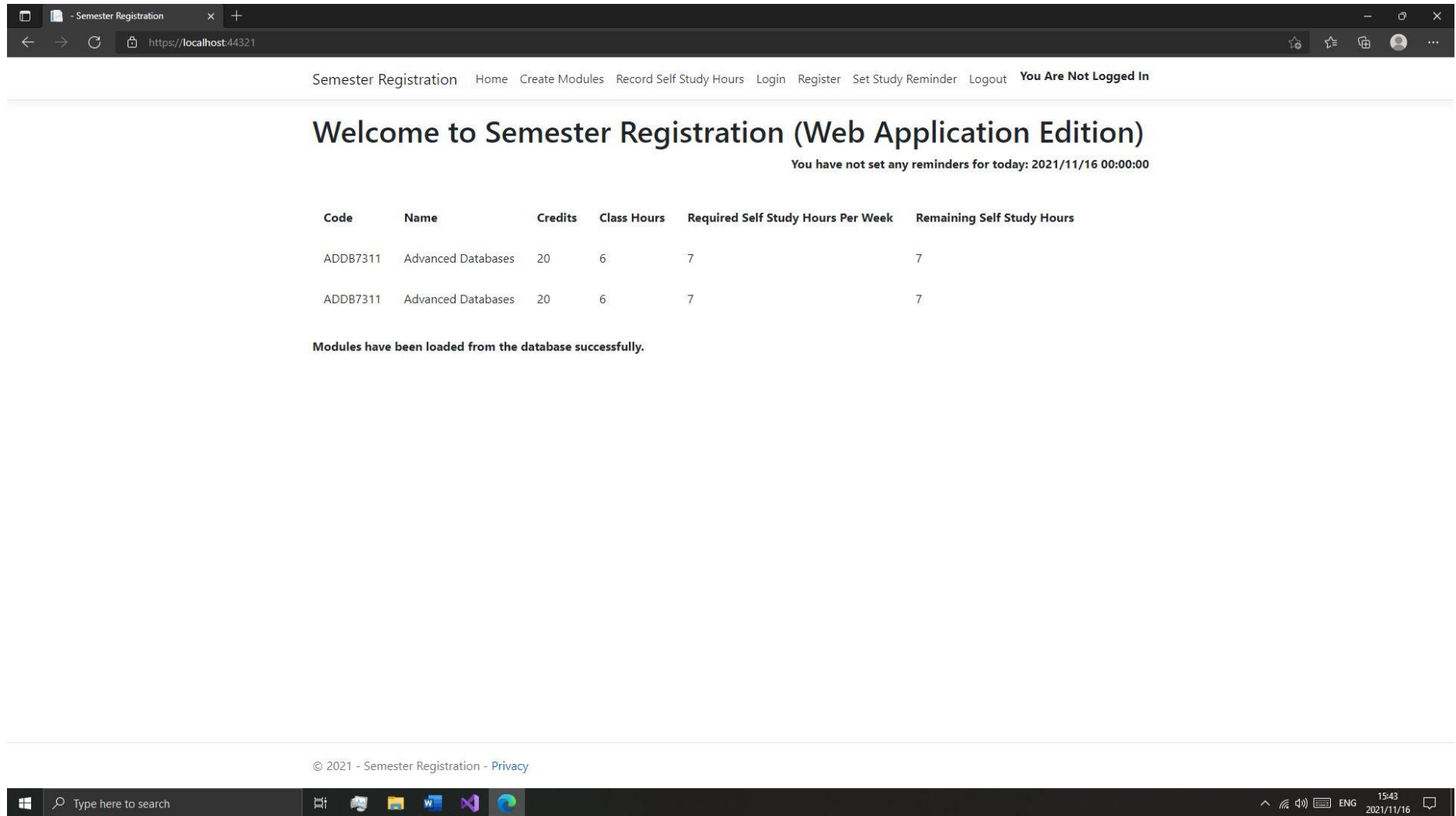


Figure 5: Home webpage if the module has been created successfully.

How to record your hours spent self-studying a particular module

1. Click on 'Record Self Study Hours' .
2. Enter the code of the module you have studied.
3. Enter the date on which you have studied that module.
4. Enter the number of hours you have spent studying.
5. After you have filled out these fields, click the 'Submit' button to record the hours you have spent self-studying a particular module.

Semester Registration Home Create Modules Record Self Study Hours Login Register Set Study Reminder Logout **You Are Not Logged In**

Record Self Study Hours

Enter the code of the module

Enter the day you studied on

Enter the number of hours you have studied

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Figure 6: How to record the hours you have spent self-studying a particular module.

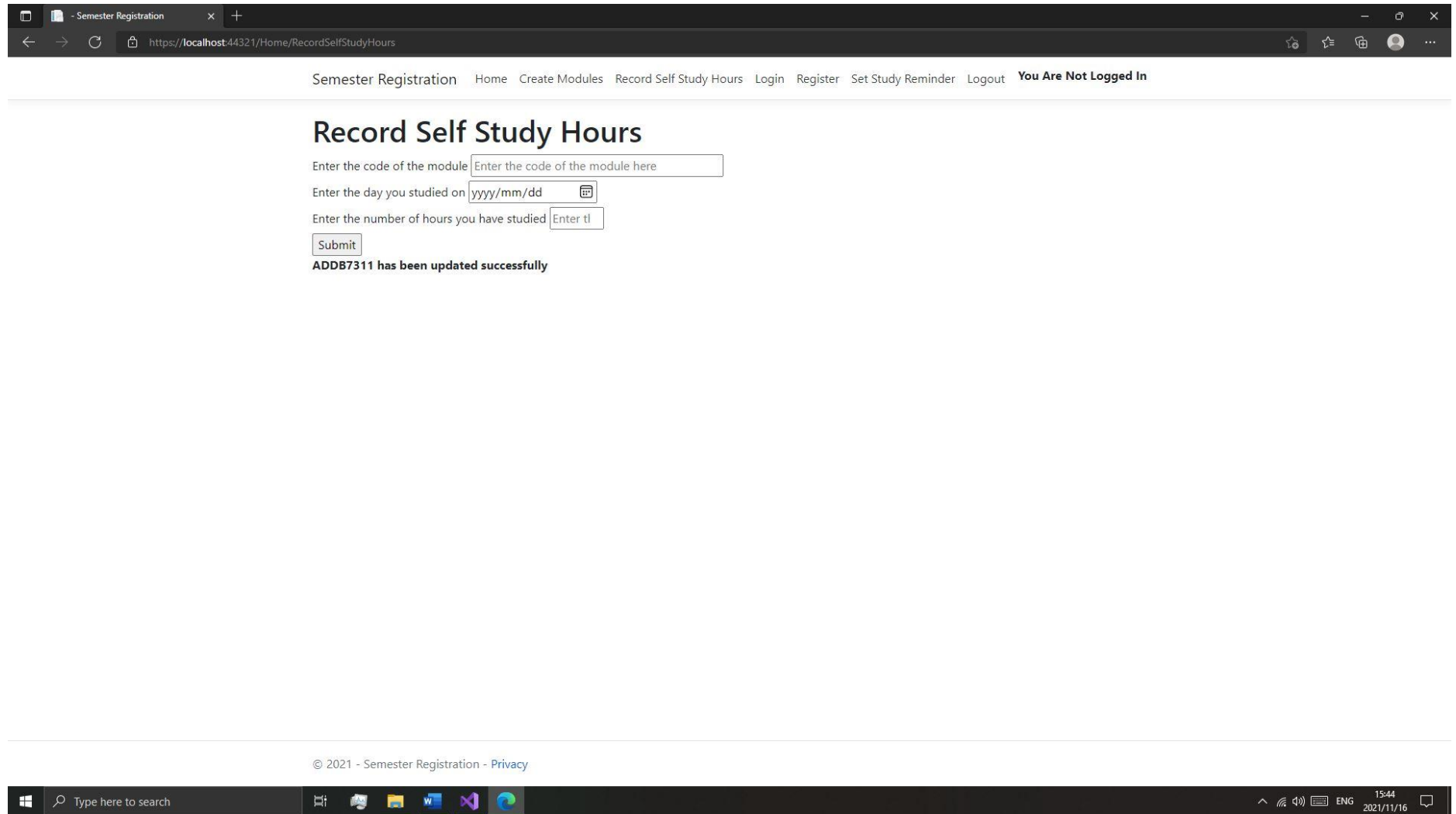


Figure 7: Record Self Study Hours webpage if you have successfully recorded the hours, you have spent self-studying.

Semester Registration

Home

Create Modules

Record Self Study Hours

Login

Register

Set Study Reminder

Logout

You Are Not Logged In

Welcome to Semester Registration (Web Application Edition)

Code	Name	Credits	Class Hours	Required Self Study Hours Per Week	Remaining Self Study Hours
ADDB7311	Advanced Databases	20	6	7	7
ADDB7311	Advanced Databases	20	6	7	5

Modules have been loaded from the database successfully.

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Figure 8: Home webpage if you have successfully recorded the hours, you have spent self-studying .

How to set a study reminder

1. Click on 'Set Study Reminder'.
2. Enter the code of the module.
3. Enter the name of the module.
4. Enter the date you wish to reserve to study this module.
5. Click the 'Set Reminder' button.

Semester Registration | Home | Create Modules | Record Self Study Hours | Login | Register | Set Study Reminder | Logout | You Are Not Logged In

Set Study Reminder

Enter the code of the module

Enter the name of the module

Set the day you wish to study your module

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Figure 9: How to create a reminder to study a module.

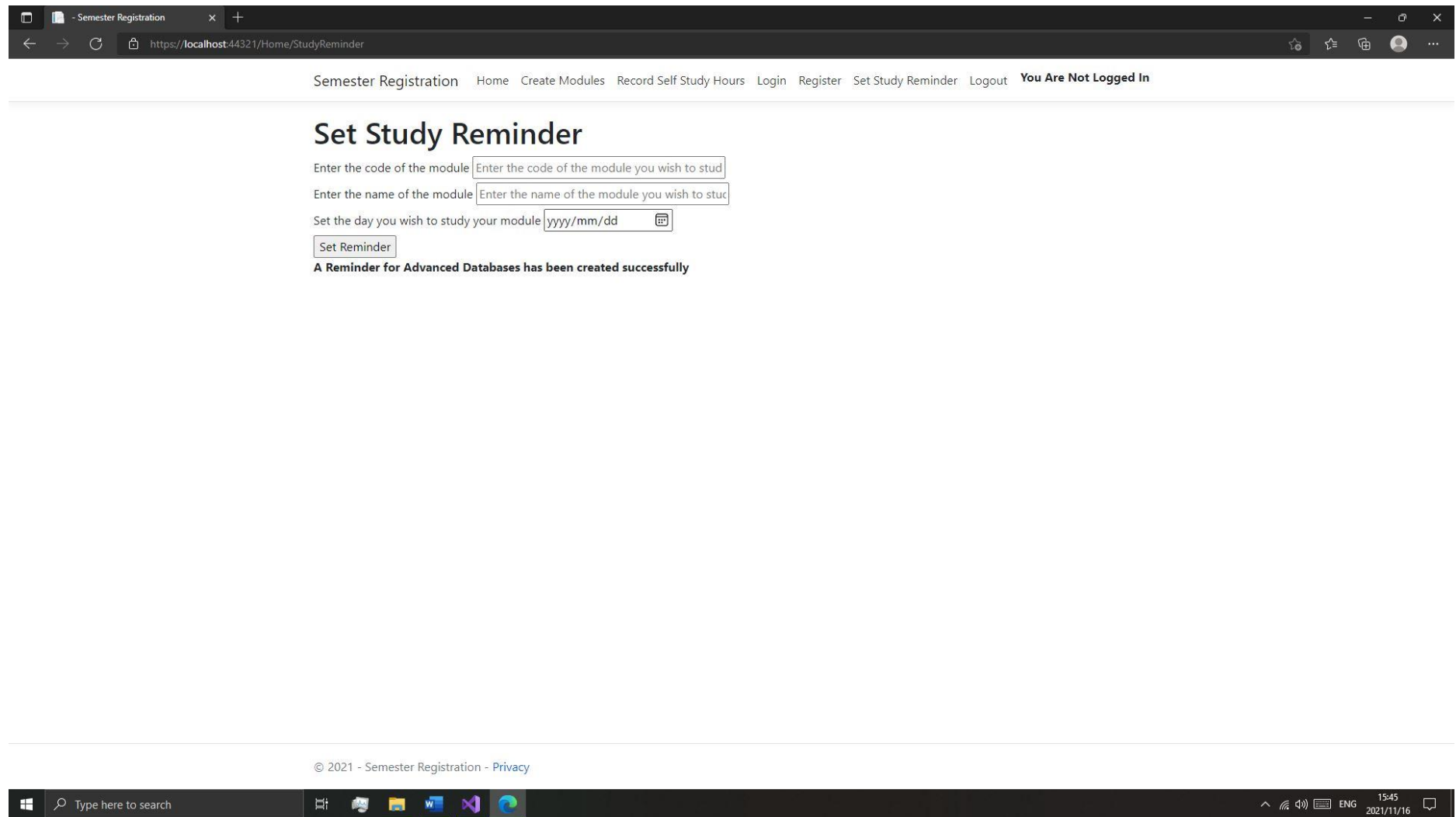


Figure 10: Set Study Reminder webpage if the reminder has been set successfully.

Semester Registration

Home

Create Modules

Record Self Study Hours

Login

Register

Set Study Reminder

Logout

You Are Not Logged In

Welcome to Semester Registration (Web Application Edition)

Reminder: Study ADDB7311(Advanced Databases) !

Original Date Set For Studying: 2021/11/16 00:00:00

Code	Name	Credits	Class Hours	Required Self Study Hours Per Week	Remaining Self Study Hours
ADDB7311	Advanced Databases	20	6	7	7
ADDB7311	Advanced Databases	20	6	7	5

Modules have been loaded from the database successfully.

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Figure 11: Home webpage if the reminder has been set successfully.

How to create a new user

1. Click on 'Register'.
2. Enter a new username.
3. Enter a new password.
4. Click the 'Submit' button.

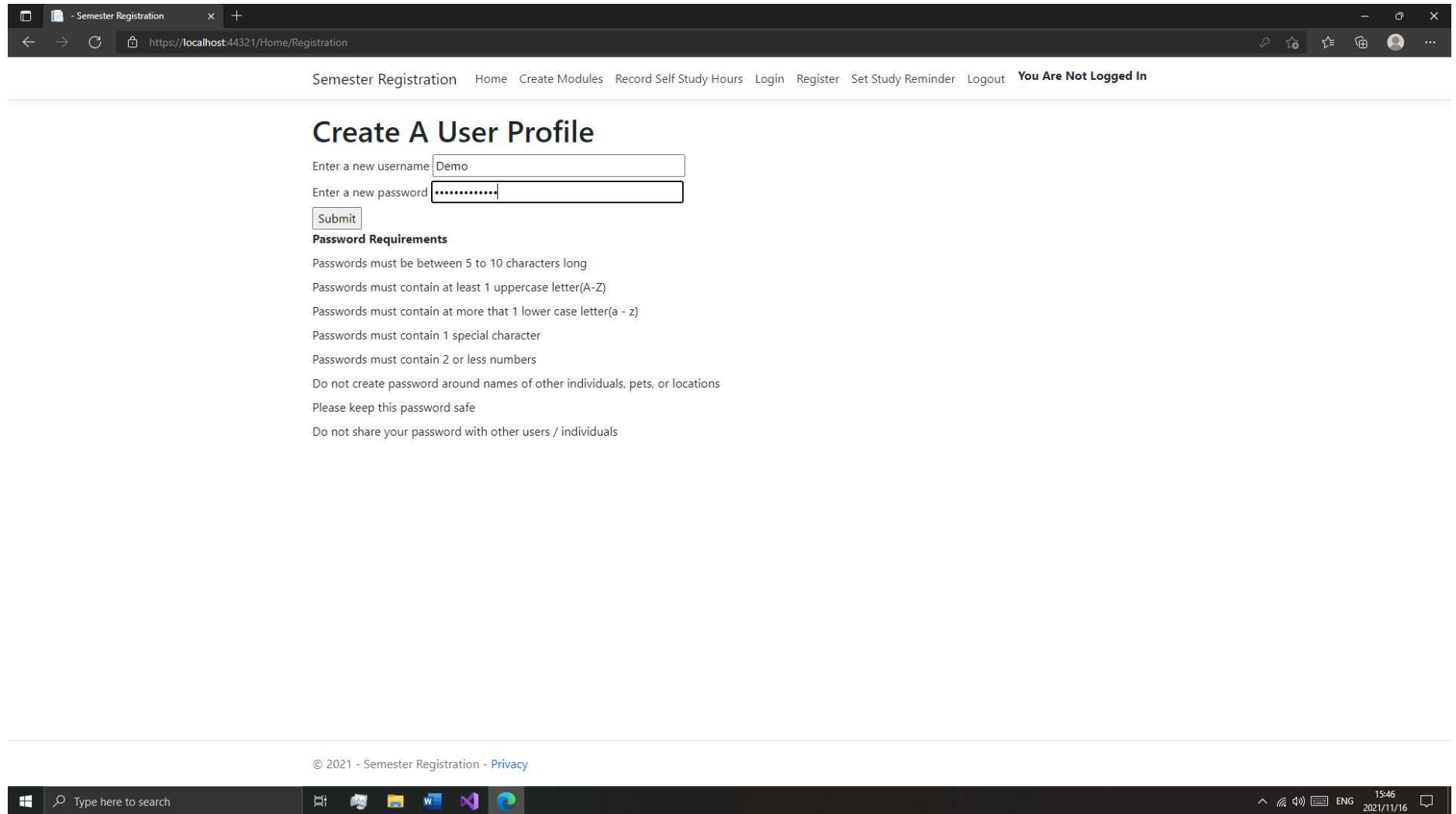


Figure 12: How to create a new user.

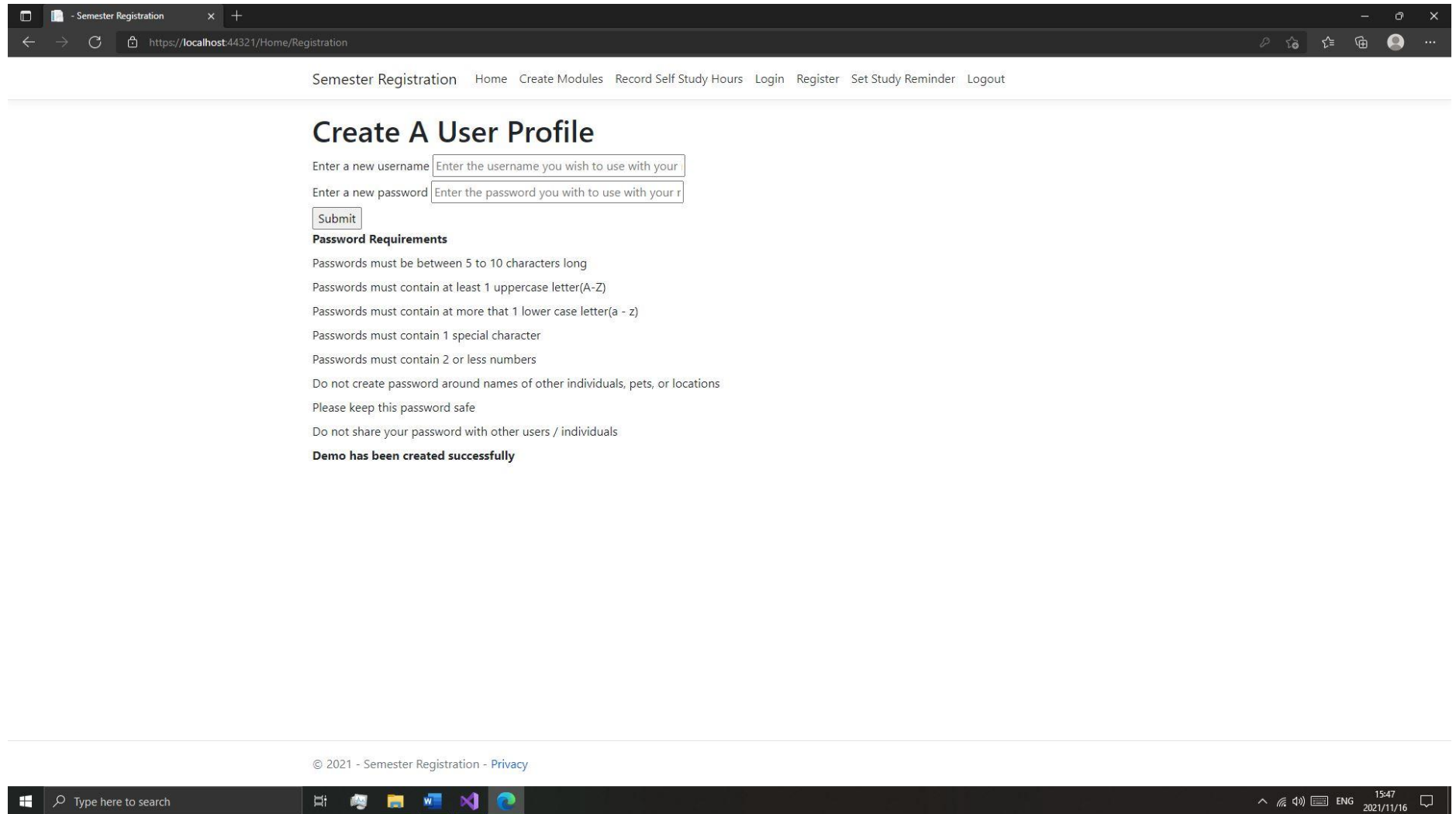


Figure 13: Create A User Profile webpage if the new user has been created successfully.

How to login

1. Click on 'Login'.
2. Enter your username.
3. Enter your password.
4. Click the 'Login' button.

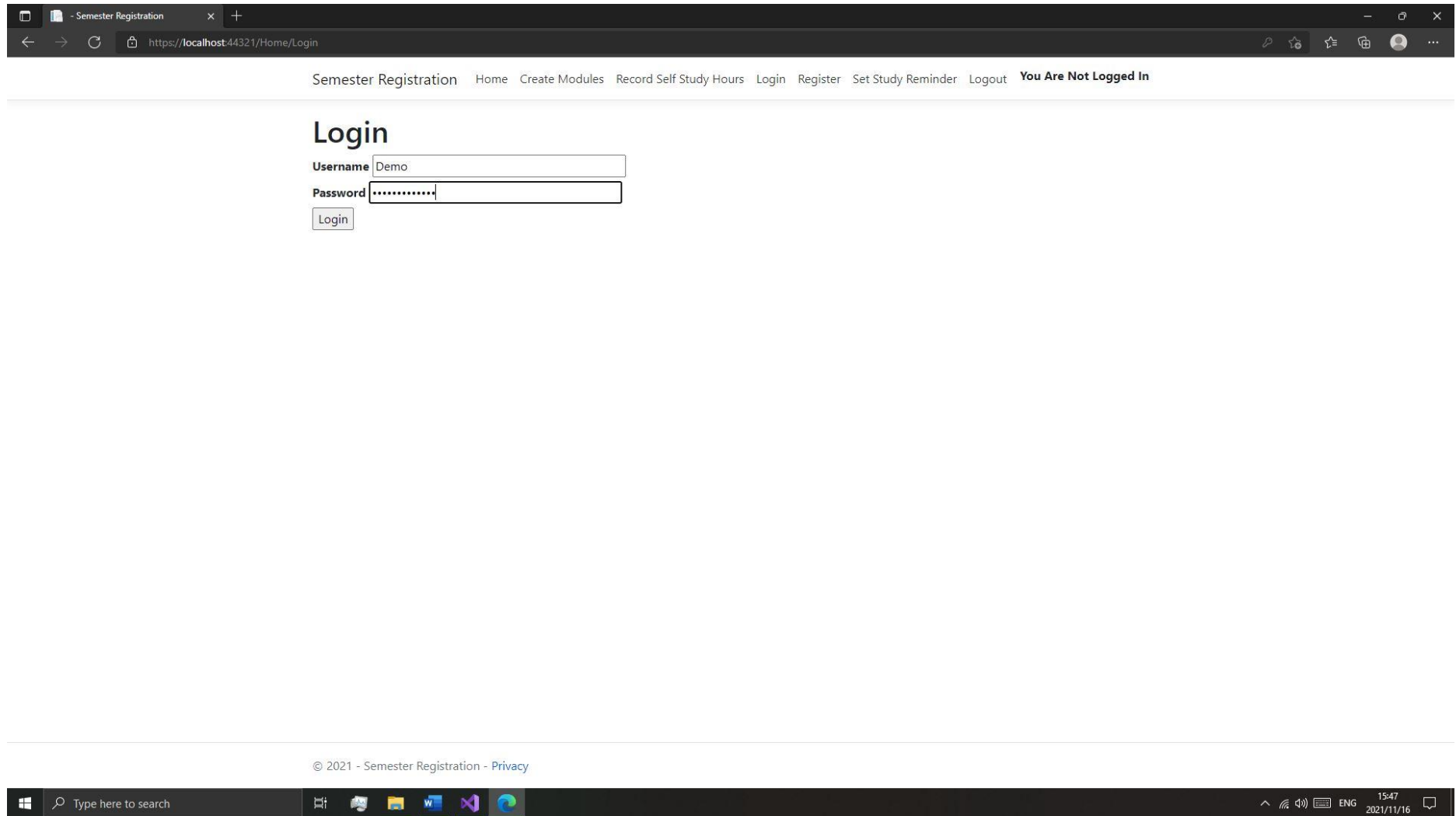


Figure 14: How to enter your username and password to login.

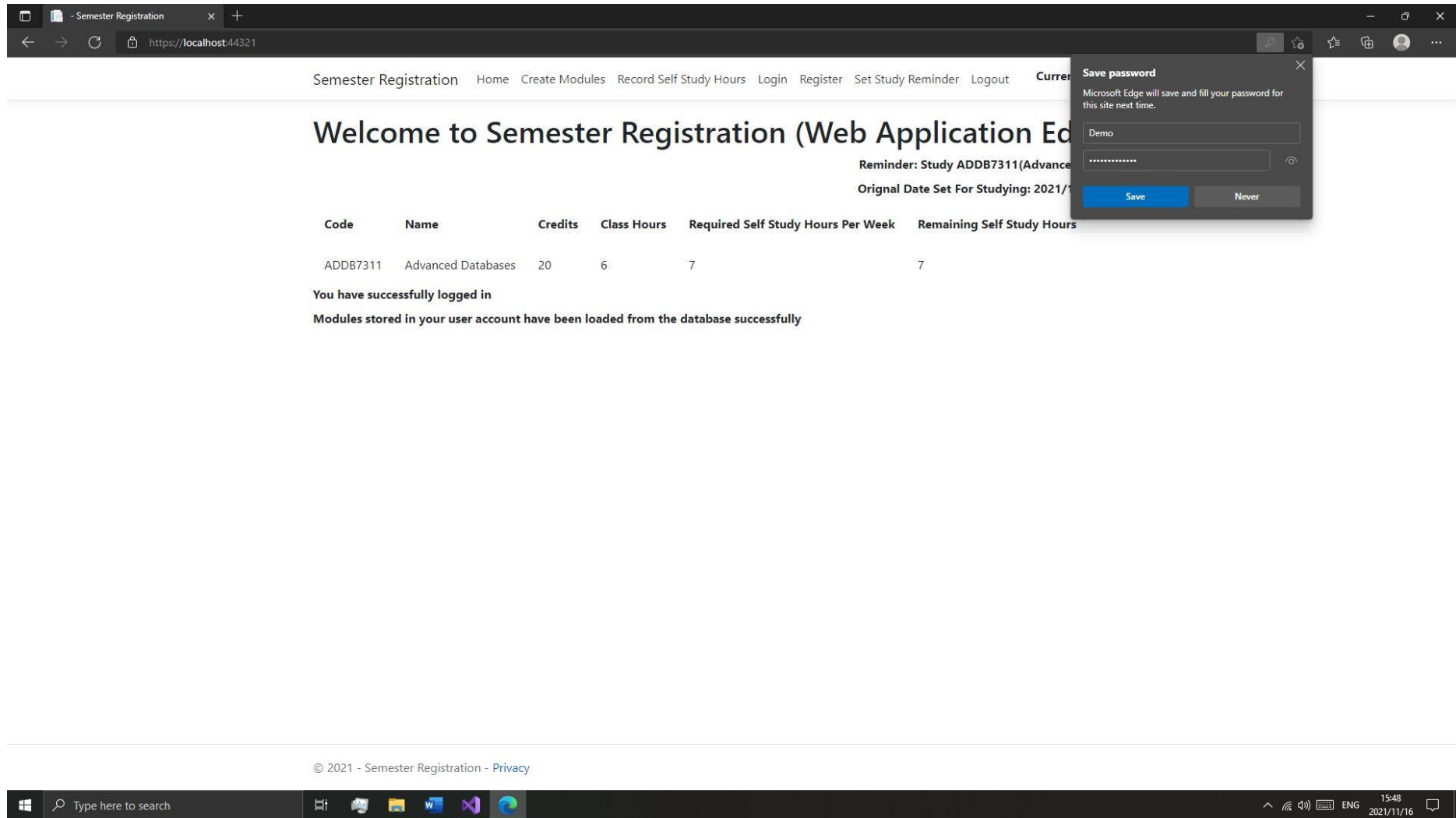


Figure 15: First output screen if the login process was successful.

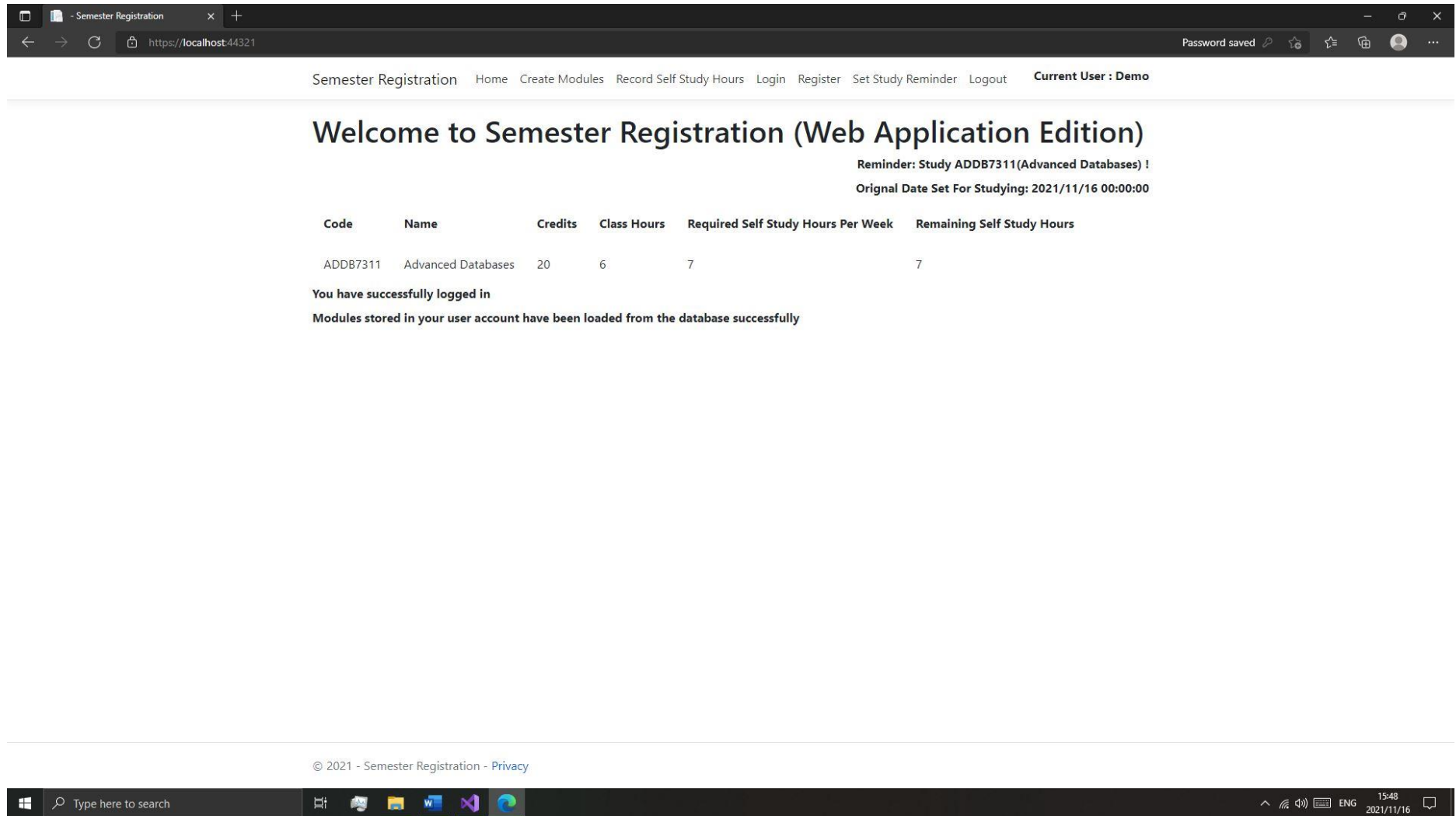


Figure 16: Second output screen if the login process was successful.

How to logout

1. Click on 'Logout'.
2. Click the 'Logout' button.