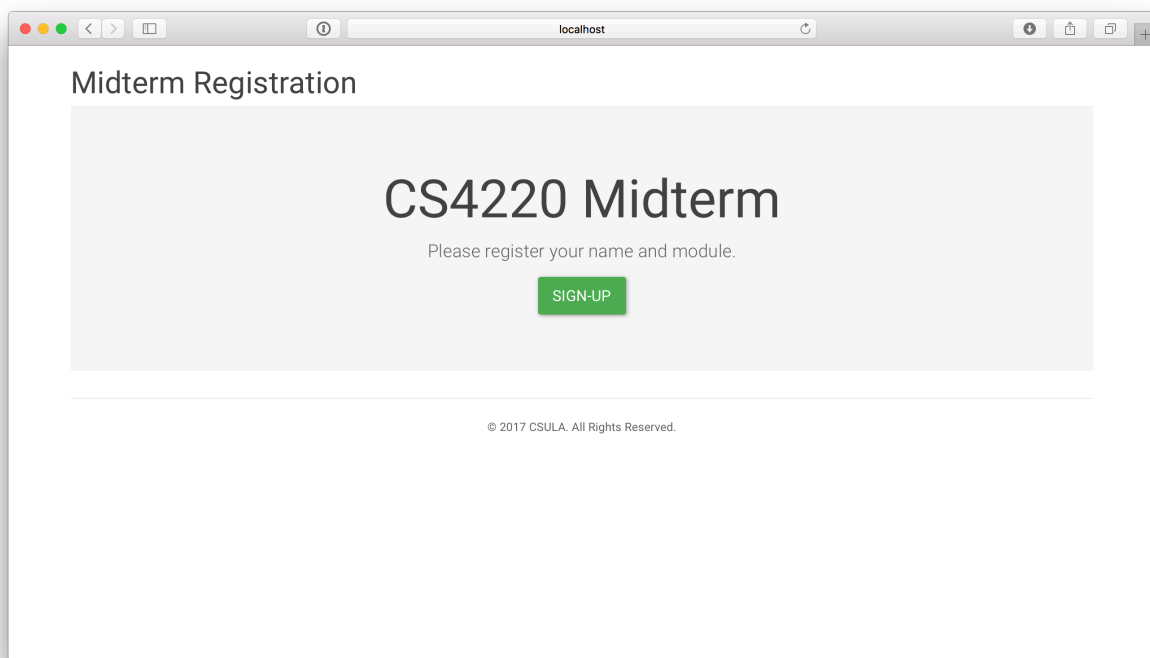


# Midterm Registration

In this assignment you will create an AngularJS application to manage a list of all groups based on the modules they select. You should use routes, controllers, and views to implement a main view, and a sign up view.

## Main View

Your main view should be located at the root path of your application. Below is an example of what your main view can look like:



Upon clicking on the Sign-Up button, the view should change to the sign up view.

## Sign-Up View

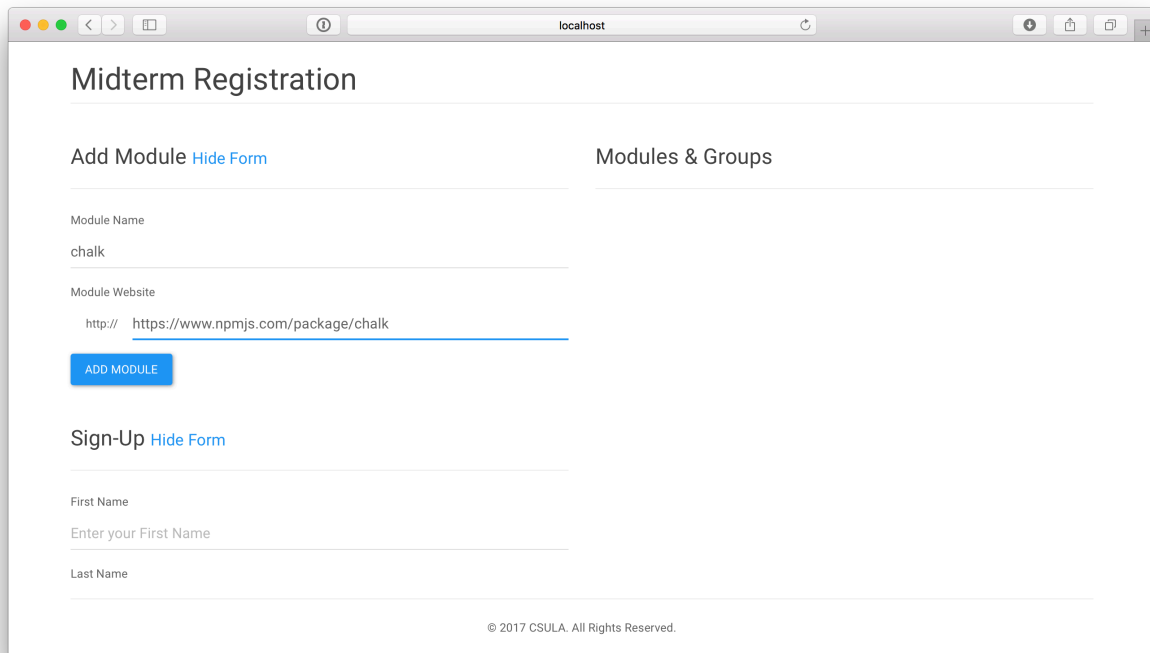
An example of the Sign-Up view can be seen below:

The screenshot shows a web browser window with the address bar set to 'localhost'. The page title is 'Midterm Registration'. The page is divided into two main sections: 'Add Module' and 'Sign-Up', both with 'Hide Form' links. The 'Add Module' section contains a 'Module Name' field with the placeholder 'Enter the name of your module', a 'Module Website' field with the placeholder 'http:// Enter module's website', and a blue 'ADD MODULE' button. The 'Sign-Up' section contains a 'First Name' field with the placeholder 'Enter your First Name' and a 'Last Name' field. A 'Modules & Groups' section is visible on the right side of the page. At the bottom of the page, there is a copyright notice: '© 2017 CSULA. All Rights Reserved.'

The sign up view should consist of an **Add Module Form**, **Sign-Up Form**, and a **Modules & Groups** list.

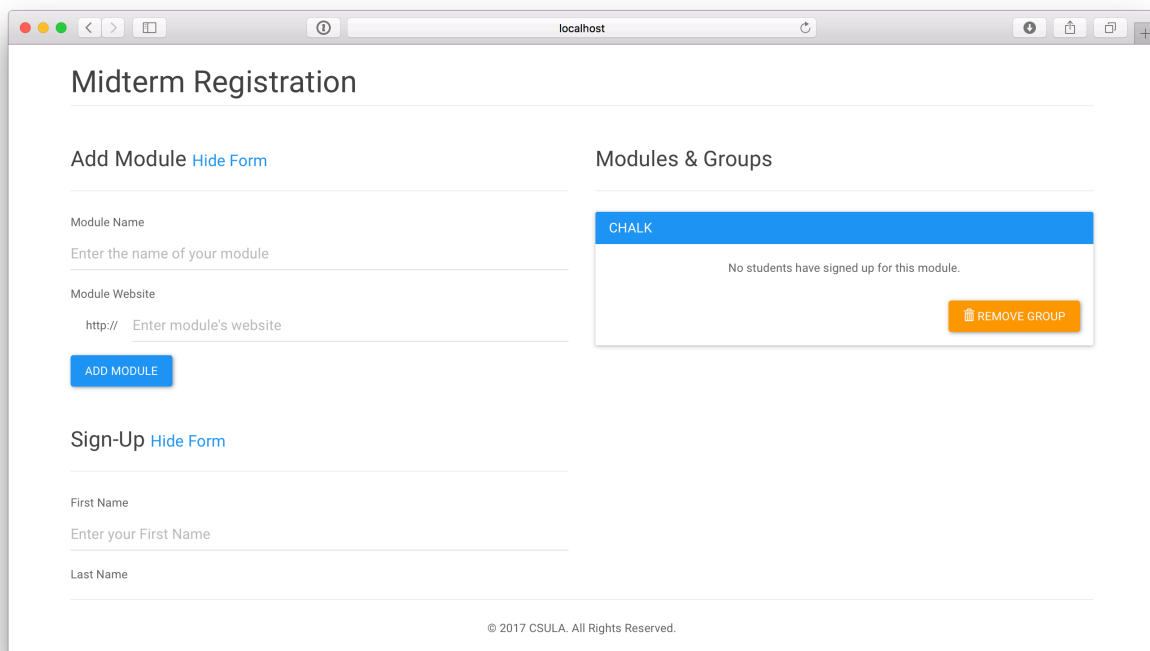
## Add a Module

Before a student can join a group, we must first add their desired module to our application. To do so, the User must fill out the Add Module form as illustrated below:



The screenshot shows a web browser window with the URL 'localhost'. The page is titled 'Midterm Registration'. It features two main sections: 'Add Module' and 'Modules & Groups'. The 'Add Module' section contains a 'Module Name' field with the value 'chalk', a 'Module Website' field with the value 'https://www.npmjs.com/package/chalk', and a blue 'ADD MODULE' button. Below this is a 'Sign-Up' section with 'First Name' and 'Last Name' fields. The 'Modules & Groups' section is currently empty. The footer of the page reads '© 2017 CSULA. All Rights Reserved.'

Upon submitting the Add Module form, a representation of the newly added module should appear under the Modules & Groups section of your page. An example is below:



The screenshot shows the same web browser window as before, but now the 'Modules & Groups' section displays a new module entry for 'CHALK'. The entry has a blue header bar with the name 'CHALK'. Below the header, it states 'No students have signed up for this module.' and includes an orange 'REMOVE GROUP' button. The 'Add Module' and 'Sign-Up' sections remain unchanged. The footer still reads '© 2017 CSULA. All Rights Reserved.'

## Sign-Up (Join a group)

Once your application contains one or more modules, a student can Sign-Up to present on a module. To do so, you should display a Sign-Up form that collects the student's first and last names, e-mail address, and the module they'd like to present. To select a module, you should dynamically update a drop-down field with all modules that have been added to your application. *As a new module is added, the drop-down should automatically update with the new option.* Below is an example of what your form may look like:

The screenshot shows a web browser window with the URL 'localhost'. The page is titled 'Midterm Registration'. On the left, there is a 'Sign-Up' section with a 'Hide Form' link. The form contains fields for 'First Name' (John), 'Last Name' (Doe), 'Email address' (john@doe.com), and a 'Module' dropdown menu currently set to 'CHALK'. A blue 'SIGN-UP' button is at the bottom of the form. On the right, the 'Modules & Groups' section shows a table with one row for 'CHALK'. Below the table, it says 'No students have signed up for this module.' and there is an orange 'REMOVE GROUP' button.

First Name	Last Name	Email address	Module
John	Doe	john@doe.com	CHALK

Upon submitting the Sign-Up form, the student should be added to the corresponding module in the Modules and Groups list. Below is an example:

The screenshot shows the same web browser window after the sign-up process. The 'Sign-Up' section now has placeholder text: 'Enter your First Name', 'Enter your Last Name', 'Enter your Email', and the 'Module' dropdown is still set to 'CHALK'. The 'Modules & Groups' section now shows a table with one row for 'CHALK' containing the student's information: John Doe, john@doe.com. An orange 'REMOVE GROUP' button is still present.

First	Last	E-mail	
John	Doe	john@doe.com	

Since group sizes are limited to 3-4 students, we will need to support multiple groups for the same module. To do so, we will *automatically assign a **Group Number** to each module that has more than one team*. For example if a student wants to prevent on the chalk module, but a group already exists, that student would simply add the chalk module again.

The screenshot shows a web browser window at localhost displaying the 'Midterm Registration' page. The page is divided into two main sections: 'Add Module' and 'Modules & Groups'.

**Add Module:** This section contains three input fields: 'Module Name' (with the value 'Chalk'), 'Module Website' (with the value 'http:// www.npmjs.com/package/chalk'), and an 'ADD MODULE' button.

**Modules & Groups:** This section displays a table for the 'CHALK' module. The table has four columns: 'First', 'Last', 'E-mail', and an empty column with a trash icon. The first row contains the data: 'John', 'Doe', 'john@doe.com', and a trash icon. Below the table is a 'REMOVE GROUP' button.

**Sign-Up:** This section contains two input fields: 'First Name' (with the placeholder 'Enter your First Name') and 'Last Name'.

At the bottom of the page, there is a copyright notice: '© 2017 CSULA. All Rights Reserved.'

Upon submitting, your application will add a new entry in your list of Modules and Groups. Now, each entry will have a Group Number automatically appended to the name. See below:

The screenshot shows the same 'Midterm Registration' web browser window, but after adding a second group. The 'Add Module' section now has the 'Module Name' field with the placeholder 'Enter the name of your module' and the 'Module Website' field with the placeholder 'http:// Enter module's website'. The 'ADD MODULE' button is still present.

**Modules & Groups:** This section now displays two groups for the 'CHALK' module.

**CHALK - Group 1:** This group has a table with the same structure as the first group, containing one student: 'John', 'Doe', 'john@doe.com', and a trash icon. A 'REMOVE GROUP' button is located below the table.

**CHALK - Group 2:** This group has a message: 'No students have signed up for this module.' and a 'REMOVE GROUP' button.

At the bottom of the page, there is a copyright notice: '© 2017 CSULA. All Rights Reserved.'

It is important to mention that the drop-down list of modules should match the names presented in your Modules & Groups list. That is to say, when we had only one Chalk entry, the drop-down list looked like this:

✓ CHALK

But, when we add a second Chalk module, the drop-down list should be automatically updated to include the Group Numbers as well.

CHALK - Group 1  
✓ CHALK - Group 2

Now, when another student signs up, they can select the second Chalk group. Below, we see that Mary is signing up to join Chalk - Group 2:

The screenshot shows a web browser window with the URL 'localhost'. The page is titled 'Midterm Registration'. On the left, there is a 'Sign-Up' form with the following fields: 'First Name' (filled with 'Mary'), 'Last Name' (filled with 'Jane'), 'Email address' (filled with 'mary@jane.com'), and 'Module' (a dropdown menu currently showing 'CHALK - Group 2'). A blue 'SIGN-UP' button is at the bottom of the form. On the right, there is a 'Modules & Groups' section. It contains two entries: 'CHALK - Group 1' and 'CHALK - Group 2'. 'CHALK - Group 1' has a table with the following data:

First	Last	E-mail	
John	Doe	john@doe.com	

Below the table is an orange 'REMOVE GROUP' button. 'CHALK - Group 2' has the text 'No students have signed up for this module.' and an orange 'REMOVE GROUP' button. At the bottom of the page, there is a copyright notice: '© 2017 CSULA. All Rights Reserved.'

Upon submitting the Sign-Up form, Mary is added to Chalk - Group 2. See image on the next page.

The screenshot shows a web browser window with the URL 'localhost'. The page is titled 'Midterm Registration'. On the left, there is a 'Sign-Up' form with fields for 'First Name', 'Last Name', 'Email address', and 'Module'. A 'SIGN-UP' button is at the bottom of the form. On the right, there is a 'Modules & Groups' section. It contains two groups: 'CHALK - Group 1' and 'CHALK - Group 2'. Each group has a table with columns 'First', 'Last', 'E-mail', and an action column with a trash icon. Below each table is a 'REMOVE GROUP' button. The footer of the page says '© 2017 CSULA. All Rights Reserved.'

First	Last	E-mail	
John	Doe	john@doe.com	

REMOVE GROUP

First	Last	E-mail	
Mary	Jane	mary@jane.com	

REMOVE GROUP

To continue outlining the naming behavior, if a module is added with a new, unique name, it should be added to the list *without a group number*.

The diagram shows a transition from the 'Add Module' form to the 'Modules & Groups' list. A large blue arrow points from the 'Add Module' form on the left to the 'Modules & Groups' section on the right. The 'Add Module' form has fields for 'Module Name' (with the value 'async') and 'Module Website' (with the value 'http:// www.npmjs.com/package/async'). An 'ADD MODULE' button is at the bottom. The 'Modules & Groups' section now includes a new group 'ASync' at the top, which has a message 'No students have signed up for this module.' and a 'REMOVE GROUP' button. Below it are 'CHALK - Group 1' and 'CHALK - Group 2', which remain unchanged from the previous screenshot.

First	Last	E-mail	
John	Doe	john@doe.com	

REMOVE GROUP

First	Last	E-mail	
Mary	Jane	mary@jane.com	

REMOVE GROUP

It is also important to note that the list of modules appears in alphabetical order.

## View all Modules and Groups

The list of modules and groups should clearly outline all students who are part of a group, and what module they will be presenting. *The title of each panel should be a hyperlink to the npm website for the module.* Additionally, the list should allow a User to remove students from groups, and delete entire groups.

Keep in mind, if you have two modules with the same name, they will be displayed with an added group number. But, if you delete one of the two modules, the name should return to just the module name *without* the group number.

## Additional Notes

Each form should contain an obvious way of showing/hiding the form to make room on the screen.

## Grading

- 10pts - Use routes to switch between your main view and sign-up view.
- 10pts - Add Module
- 10pts - Delete Module
- 15pts - Correctly display module names in Modules and Groups list
- 15pts - Correctly display module names in the Sign-Up drop-down list.
- 10pts - Allow User to hide/show each form.
- 10pts - Add student to specific group/module
- 10pts - Remove student from specific group/module
- 10pts - Display modules in alphabetical order

Total: 100pts