# CST8218 Assignment 2

## Submissions Due: End of Day, Saturday April 11

Demo instructions coming…

Objective: (Part 1) Implement user accounts to support security constraints, and (Part 2) add security constraints to protect both the JSF pages and the RESTful API of your Assignment 1 solution. (Use the attached SpriteBase project if you have no Assignment 1 solution.)

## Methodology:

* Implement Assignment 2 Part 1 (separate document) JSF pages to manage the appuser table.
* Practice applying Basic Authentication to the address-book application
  + Start by adding a user to the file realm and testing with that user
  + Then, add the @DatabaseIdentityStoreDefinition annotation to a class in your project (which one?) in order to test with users in your appuser table
* Apply Basic Authentication to your Sprite application JSF pages
  + Test both successful and unsuccessful authentication
  + Test both successful and unsuccessful authorization
* Apply Basic Authentication to your Sprite application RESTful API
  + Test both successful and unsuccessful authentication with Postman
  + Test both successful and unsuccessful authorization with Postman
* Add a form as a separate page to your JSF pages to do Form Authentication

## Requirements:

* The RESTful interface works as specified in Assignment 1, except now it is secured. (NO RESTful API is required for the AppUser entities.)
* Ensure your code has appropriate implementation comments.
* User administration area (see Assignment 2 Part 1) for your Sprite project.
* Lock down the application with authentication of users to the application, so that in order to use the JSF pages or the RESTful interface, the user must have been added to the database with the right group:
  + RESTful resources accessible only to group RestGroup
  + JSF Sprite Pages accessible only to group JsfGroup
  + Admin group can access both of the above, and JSF AppUser Pages
  + Other users cannot access any of the above

Grading Criteria:

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AppUsers functionality merged into the Sprite project: 5

Password Hashing:

RESTful resources accessible only to group RestGroup: 5

JSF Pages accessible only to group JsfGroup: 5

Admin group can access both and AppUser table (included in 10 marks above)

Other users cannot access either (included in 10 marks above)

Implementation comments:

Comments on all files and methods added to files: 5

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Actually ready: 2 (app running, admin console running, Netbeans running, users added, and Postman running with correct URL)

Run app showing users with hash passwords: 3

Show Postman request successful: 3

JSF request fail: 2

## Submission

Demonstrate your final secured Sprite program to your Lab Instructor, and submit a zipped archive of the Netbeans project folder(s) using the Brightspace link provided. Please use only zip, and do NOT use .7zip, or .rar formats for the submitted archive.