

# Project

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**Due** Dec 1 by 11:59pm      **Points** 100      **Submitting** a file upload  
**Available** Nov 11 at 12am - Dec 5 at 11:59pm 25 days

## Requirements

For the project you may work in a group of up to 4 people -- NOTE: If you are working in a group of 4 you must Angular.js (see your book, as I won't be covering it in lecture) for the client-side. You are not required to work in a group, but you are **very strongly encouraged** to do so -- frankly this is too big for an individual.

Like previous assignments, sign up for a Project Group in People. You have until Wednesday, Nov 15 at 11:59 PM to sign up in a group. After that I will close the sign up.

As you will be working in groups, you are strongly encouraged to use GitHub for this. I have created an assignment in GitHub for this project, here is the link: <https://classroom.github.com/g/j1h1y4Os>  
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## Peer Rating Web App

Recall an earlier assignment has extra credit for the best submissions. You will build a web site that will allow for students to view and rate (first, second, and third) of the various student submitted web sites.

- Your web app, must store usernames and passwords in an SQL database.
- The passwords must be salted and hashed.
- There needs to be at least 2 roles - one for students allowing them to vote, and one for instructors/tas.
- There must be a way to upload a list (CSV) of users, their passwords, and roles.
- Your web app should allow each student to vote once and only once.
- The instructor/ta is able to upload as a large zip file the websites for the students.
- They instructor/ta is able to view a report of the voting. The report should clearly indicate who voted and how they voted.
- The instructor/ta should be able to download the voting report as a CSV file.
- All input from the client needs to be sanitized and validated on the server. NOTE: you are not required to sanitize and validate the data coming from the database.
- For the voting, the order of the websites should be randomized when displayed for students.
- You will need to use sessions to ensure that users log in.
- You are also required to have an option for logging out.
- You are required to use Bootstrap for styling your web app.
- Notice I am not requiring you to use a particular language for your server side code. Since we have covered it the most, Ruby + Sinatra is recommended. However, you may choose any programming language/framework that you wish. Note, however, that if you have a group with 4 members you must meet one of the language/framework requirements specified earlier.

## What to submit

Zip your project and submit the zip file as an attachment. Include a `readme.md` file in it that details how to run your project -- if it is not Ruby and Sinatra. If your chosen language/framework does not create the database, make sure to include an SQL file to create the database together with instructions in the `readme.md` file.