

Program 1: NodeJS. Due March 28, by 5pm.

You are going to create a NodeJS website with persistent storage, including a web site and API version. The web will be a small forum site. The user “logins”, they can post text messages and other users can comment on them.

Undergraduate:

1. If the user is not “logged in”, then the user will see a login screen, where they can either really login, or just have user pick a username. They will then use that username on the site.
2. Once logged in, the site will display all posts, when a user clicks on a post they can then comment on that post. So, you will get a list of comments after the post. Note, users only comment on the post, they can’t comment on comments (like most social media sites)
3. The user can add new posts or comment on other posts, it will use their username, they don’t add it.
  - a. Uses can also edit their own posts and comments
4. If a user deletes a post, then it also deletes all the comments on post. If a user deletes their comment, then only that comment is deleted.
5. Add a set of ReST APIs, so that users can use an android app to interact with the site, instead of using the website. Remember, they need to be able to use CRUD for posts and of course comments as well. The login name would be sent with posts as needed.

Graduate:

1. All the undergraduate version
2. While the undergraduate version displayed all the posts, your version will have categories. The initial screen after “logging in” will display 5 different categories user can view posts in (names are up to). Then everything works the same, in each category. Users post, comment, etc.
3. You will also need to update the APIs to handle categories as well.

Use this link to get the GitHub repo: <https://classroom.github.com/a/UIBKQFoU>

Turn in:

1. Make sure the readme has been updated, name, Program 1
2. Update the AI use section
3. Make sure you push everything to GitHub.
4. This will be too difficult to grade without you, so arrangements will be made to have to live demo the site and that everything works. Have a set of tests ready to show the APIs work as well. Or you can create a video showing that everything works.