

Congratulations! You've made it to Project Phase 3, the Implementation phase. Your task now is to implement the system you've been designing to this point.

We have suggested the use of the various \*AMP or \*APP stacks, implementing in MySQL or PostgreSQL and PHP, but you are by no means limited to those, you are welcome to implement your system in any language or platform you wish, subject to the caveat that you must write your own SQL and implement your own logic on the database. Use of tools such as hibernate and others which handle your database interaction (and even your schema design) are strictly prohibited.

There will be two deliverables for this phase of the project. First, your implementation must be done and checked in to GitHub by 11:59pm AoE time, Sunday November 20<sup>th</sup>. You will indicate this by having one designated member of your team submit on T-Square the commit ID of the final version of your application. Nothing else needs to be committed on T-Square, just enter the commit ID of the final git commit.

**PLEASE INCLUDE A phase3.txt file in the root directory of your project indicating which file/files contains the SQL implemented by your project. The grading TA will want to look at your SQL, and it will be much easier for us to find if you tell us which file(s) that's located in!**

Note: MAKE SURE you have pushed your changes to GitHub, not merely committed locally. We need to be able to check out your change.

If you are unsure how to get the commit ID, one way is to go into your project directory and type "git log". This will give you a long list of output, and each of your commits will begin with a line like this:

```
commit 40da96c63a0a82d71e531cf137b6c95e282f9289
```

The commit ID is the part after the "commit ".

The second major deliverable for this phase of the project will be a demo for one of the TAs.

Sometime in the week leading up to the project deadline, we will put up a sign-up sheet on Piazza for teams to choose a time to demonstrate their project to a TA. These will be 25 minute slots, and the idea is that you should come prepared with a 15 minute demonstration of all of the features of your project. You should also plan for about 10 minutes' worth of questions, both during your demo and at the conclusion, and should be prepared to have a query window open into your database to show the data in your tables as you proceed through your demo. More will be presented as we get closer, but you will want to make sure your entire team can attend if at all possible, and everyone should be prompt, most of the time there will be another team following you, and so if you are late, it will cut into your time and you may not be able to fully demonstrate your system, which will likely negatively impact your grade!

These demos will take place over WebEx most likely, but it is possible we may decide to go with Google Hangouts or Skype or some other application that allows screen sharing.

### How To Submit

- 1) As before, select one member to act as “team captain” for this phase of the project. THIS DOES NOT HAVE TO BE THE SAME PERSON AS LAST TIME.
- 2) The team captain will submit the GitHub commit ID in the comment field on the assignment.
- 3) Please make sure the “phase3.txt” file described above is included in the root directory of your project.
- 4) No one else on the team is required to submit anything, although you will not be penalized if more than one team member submits the commit ID. HOWEVER: You WILL be penalized if multiple people submit and the commit IDs do not match, so if you intend to all submit, be certain you all submit the same commit ID.
- 5) In the week leading up to the submission deadline, look on Piazza for the method of signing up for your demo time slot, and make sure you sign up for a time when your team can all be present.
- 6) When your time slot comes along, do your demo for the TA.

A note on Team Captain: If anyone on your team is considering dropping the class, PLEASE do not have them act as Team Captain, and here’s why: If you drop the class, T-Square purges all record of you from our view. So if your Team Captain submits and then drops the class, we will not see a submission for your team, we will have to ask you to resubmit, and there will be a fairly hefty penalty for the late submission. Obviously, this is not a huge deal at this stage of the game, the odds are slim anyone will be dropping at this point. Still, it’s worth mentioning.

As before, the “team captain” doesn’t need to mean anything more than “the student who submits”. It doesn’t change responsibilities or denote that someone is in charge, it won’t change anyone’s grade, and it needn’t be the same person for each phase of the project.

### How You Should Work:

We strongly advise you to do all of your code sharing on GitHub. This will ensure that you have checked in everything necessary, because if anyone fails to submit something important, the rest of the team will pick up on it and make sure it’s corrected. This way, when you submit your final commit on T-Square, we will not have to figure out how to handle the files you intended to submit but didn’t realize git had not properly committed.