

Web-server Embedded-system Tester

Student User Guide

The WET System is designed to automatically download your project code, flash it to real Atmel hardware, and grade your project in real time. This guide is designed to explain how to use the features should there be any confusion.

As of now, access the site via url `ecegrading.umassd.edu:26388`

Getting Started

You should receive an email from the WET System that looks like this – it's automated by the system just to associate your GitHub account with your UMassD details. If you don't receive the email – check your spam folders, and if still there's nothing, please tell your instructor!




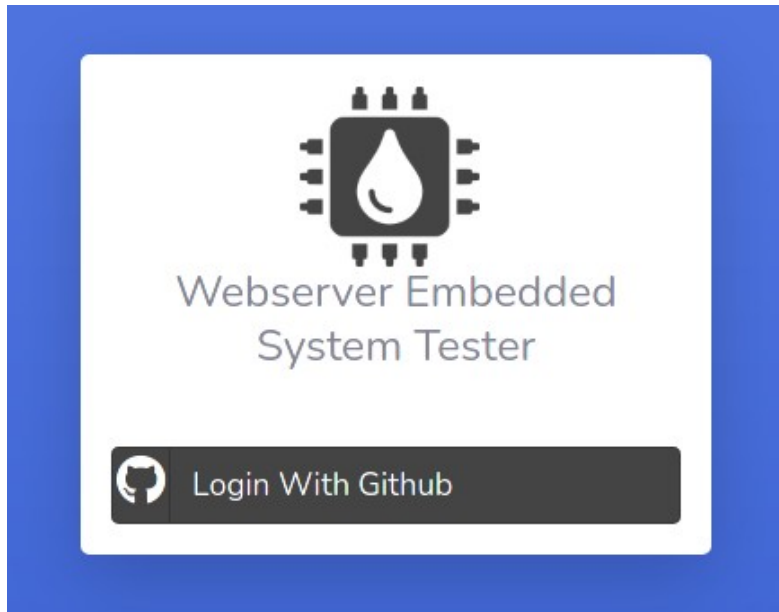

Welcome from the WET System!
Click the link below to get started with the
auto-grading system.

[VERIFY YOUR EMAIL](#)

Thank you!

GitHub Setup

After clicking the link, you'll be redirected to the WET Site, where you can login using your GitHub account. If you haven't done so, login to your GitHub account and grant permission to the site:

Sign in to **GitHub**
to continue to **Web-server
Embeded-system Tester**

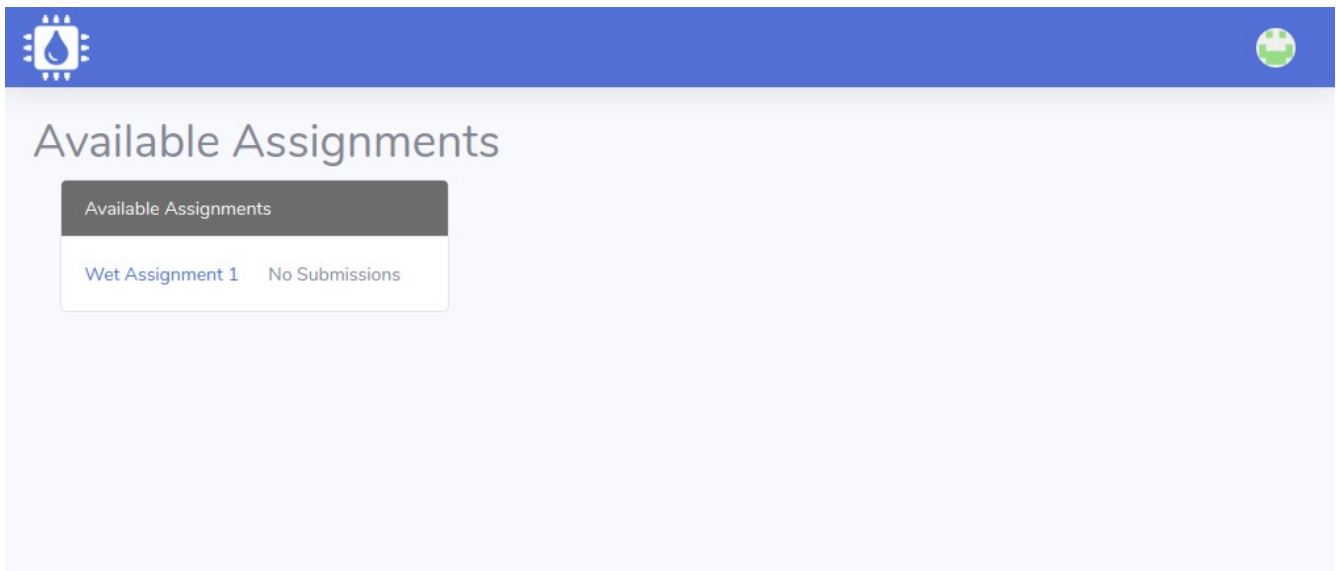
Username or email address

Password [Forgot password?](#)

You'll also need to enter your name, so that your instructor knows whose account is tied to who!

WET Site

Once on the site, your browser should look something like this:



You will be able to see any assignments that your instructor has made visible, as well as your most recent grade (if you've made a submission yet). You may also log out by clicking on your GitHub user icon in the top-right corner. Clicking on the assignment link will bring you to your own assignment repo, after accepting the assignment:


ECE-classroom







Accept the assignment — First Assignment


Once you accept this assignment, you will be granted access to the `first-assignment-student` repository in the [ECE-classroom](#) organization on GitHub.

Accept this assignment

After this point, you're free to make any updates and commits to your new classroom repo. It'll be based off a template repository provided by the instructor:

 **github-classroom** Initial commit 795a4e 2 minutes ago 🕒 1 commit

 .github/workflows	Initial commit	2 minutes ago
 __pycache__	Initial commit	2 minutes ago
 dut	Initial commit	2 minutes ago
 README.md	Initial commit	2 minutes ago
 main.c	Initial commit	2 minutes ago
 test_blinky.py	Initial commit	2 minutes ago


README.md 

First Assignment


This is your first WET System assignment.

This repo has some handy features for completing your assignment – since this will be an AVR project, in this case the *main.c* file is already provided. However, it'll need some changes to actually work. Your instructor will go over the lab details on what specifics they want. When you want to test your code (or have already tested it on your own board and want a grade), just make a commit and push your code via Git.

If there's tests that don't pass, you'll see an X icon in your GitHub repository:

 **student** Completed project! ✖ 7045533 30 minutes ago 🕒 2 commits

Click the icon to be directed to the project run, where you may find more details about the tests. You can also open the python test file to see what tests are applied to your code. This icon will change depending on the test status, e.g.

 13c1f12 34 seconds ago 🕒 5 commits

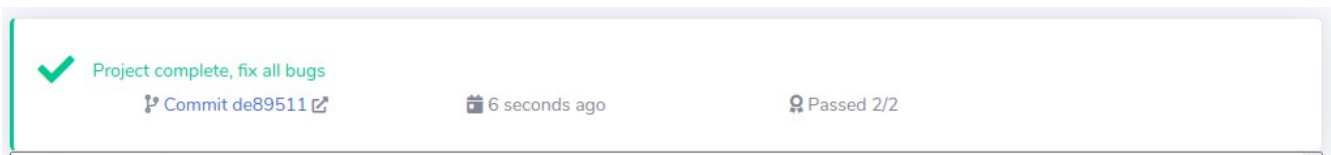
If there's errors in your code, or for some other reason the project won't compile, you'll see the below icon with some details as to why:



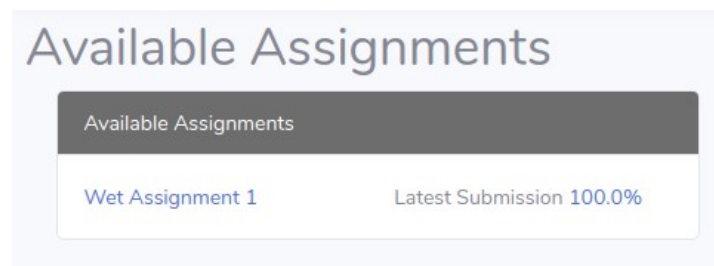
The screenshot shows a submission interface with a red error icon and the text "Completed project!". Below this, it says "Commit 12734b3" and "8 minutes ago". The submission status is "Passed 0/0". The main content area displays the output of a compilation process, including the command "avr-gcc -g -Wall -mcalls-prologues -mmcu=atmega328pb -Os -B atmega328pb/ -I include/ -c -o main.o main.c" and several error messages. The errors include a warning about a data definition with no type or storage class, a warning about a type defaulting to 'int', and an error about an undeclared identifier 'dir'.

```
Cloning Repository
Cloning into 'first-assignment-student'...
Compiling and Uploading
avr-gcc -g -Wall -mcalls-prologues -mmcu=atmega328pb -Os -B atmega328pb/ -I include/ -c -o main.o main.c
main.c:7:1: warning: data definition has no type or storage class
    7 | err = 0;
      | ^~
main.c:7:1: warning: type defaults to 'int' in declaration of 'err' [-Wimplicit-int]
main.c: In function '__vector_13':
main.c:11:5: error: 'dir' undeclared (first use in this function)
    11 | if(dir){
      |     ^~
main.c:11:5: note: each undeclared identifier is reported only once for each function it appears in
make: *** [<built-in>: main.o] Error 1
make: *** [makefile:22: program] Error 1
rm main.obj main.o
!!Exiting!!
```

Once all the problems have been fixed, you'll see a check mark both on the run page as well as in your repository:



Keep in mind that projects are all put into a queue, so you may have to wait a few seconds until your project runs. After your project passes all the tests, you'll see a grade on your assignments dashboard:



The screenshot shows a dashboard titled "Available Assignments". It contains a table with two columns: "Assignment" and "Latest Submission". The first row shows "Wet Assignment 1" with a "Latest Submission" of "100.0%".

Available Assignments	
Wet Assignment 1	Latest Submission 100.0%