A comprehensive method for testing documentation was a must for us from the beginning. We created a testing form that would automatically record the time and date when it was created and submitted. In this testing form, the user had to fill out who was present, the date of the test, how well it went (on a scale from 1-5), the battery voltage, and notes (where the user would enter what occurred on the run).

Along with this, the user had to directly submit a video file of the test run, all of our test runs have footage unless the video had trouble uploading. We also chose categories to track what we were changing on each test, as shown in the image below. The combination of the two of these allowed us to track what was changed on each run.

3. What was tested? *	Whole Robot	Specific Mechanism	Specific Program	Debugging	Other
Software	○	○	○	○	○
Hardware	○	○	○	○	○
Course Run	○	○	○	○	○

The result of the testing log is shown below.

Testing_Form

Hi Annie, when you submit this form, the owner will be able to see your name and email address.

* Required

1. Who was there? *****

   - [ ] Annie
   - [ ] Julie Rose
   - [ ] Maria
   - [ ] Wyatt

2. Date *****

   | Please input date in format of M/d/yyyy |

3. What was tested? *****

	Whole Robot	Specific Mechanism	Specific Program	Debugging	Other
Software	○	○	○	○	○
Hardware	○	○	○	○	○
Course Run	○	○	○	○	○

4. Upload Footage *

⤒ Upload file

File number limit: 10   Single file size limit: 1GB   Allowed file types: Word, Excel, PPT, PDF, Image, Video, Audio

5. How well did it go? *

☆ ☆ ☆ ☆ ☆

6. Battery Voltage: *

Enter your answer

7. Notes: *

Enter your answer

Submit

First 17 of 111 Test Log Entries:

NO.	START TIME	COMPLETION TIME	MEMBERS PRESENT	RATING (1-5)	TESTING FOOTAGE	NOTES	SOFTWARE	HARDWARE	COURSE RUN	BATTERY
1	2/12/20 13:50:31	2/12/20 13:51:33	Annie ;	5	File	This is a test.	Other	Other	Other	Other
2	2/19/20 18:32:00	2/19/20 18:34:19	Annie ;Wyatt;	2	File	Bump switches too far apart Wheel directions half incorrect	Whole Robot	Whole Robot	Debugging	NA
3	2/19/20 18:40:58	2/19/20 18:42:48	Annie ;Wyatt;	2	File	Robot still goes backwards	Whole Robot	Whole Robot	Specific Program	NA
4	2/19/20 19:03:56	2/19/20 19:05:27	Annie ;Wyatt;	2	File	Hit jukebox	Whole Robot	Whole Robot	Specific Program	NA
5	2/19/20 19:11:59	2/19/20 19:13:10	Wyatt;	4	File	Found new blue CDS reading, with a lower limit of 0.61	Specific Mechanism	Whole Robot	Debugging	NA
6	2/19/20 19:22:20	2/19/20 19:23:46	Annie ;Wyatt;	1	File	Bot didn't stop	Whole Robot	Whole Robot	Specific Program	NA
7	2/19/20 19:45:24	2/19/20 19:46:58	Annie ;Wyatt;	4	File	Initial line follower a problem	Specific Program	Whole Robot	Specific Program	NA
8	2/19/20 19:53:25	2/19/20 19:55:18	Annie ;Wyatt;	3	File	Turn not large enough Did not sense line	Specific Program	Whole Robot	Specific Program	NA
9	2/19/20 20:00:33	2/19/20 20:02:10	Annie ;Wyatt;	5	File	Perfect turn	Whole Robot	Whole Robot	Specific Program	NA
10	2/19/20 20:06:46	2/19/20 20:09:44	Annie ;Wyatt;	3	File	Second turn happens too far out Line follower is a mess	Whole Robot	Specific Program	Specific Program	NA
11	2/19/20 20:15:46	2/19/20 20:17:45	Annie ;Wyatt;	2	File	Turn not big enough, persisting issues with sensing line initially. Blue light wrongly detected.	Specific Program	Whole Robot	Specific Program	NA
12	2/19/20 20:24:26	2/19/20 20:27:40	Annie ;Wyatt;	3	File	Still needs to find line, otherwise good	Specific Program	Whole Robot	Specific Program	NA
13	2/19/20 20:47:48	2/19/20 20:49:20	Annie ;Wyatt;	2	File	Robot moves forward even after button is pressed, blue angle needs adjusted	Specific Program	Whole Robot	Specific Program	NA
14	2/20/20 13:27:55	2/20/20 13:30:33	Annie ;Wyatt;	3	File	Didn't find line, not stopping after hitting jukebox, did not hit blue light	Specific Program	Whole Robot	Specific Program	NA
15	2/20/20 13:37:52	2/20/20 13:39:45	Annie ;Wyatt;	3	File	Turn much better, line follower still having issues. Wrong light	Specific Program	Whole Robot	Specific Program	NA
16	2/20/20 13:39:58	2/20/20 13:41:18	Annie ;Wyatt;	2	File	Line follower is a bit janky	Specific Program	Whole Robot	Debugging	NA
17	2/20/20 13:46:34	2/20/20 13:48:15	Annie ;Wyatt;	2	File	Need to bump up the back up, cds cell was wrong, line follower needs a push?	Specific Program	Specific Program	Whole Robot	NA