

# Introduction to Programming - II

## Project Log - 1

Project title:	Drawing App
Topic:	Topic 7: Extending the apps, Part - 3(Week 14)
What progress have you made on this topic?	
<p>This topic, I completed my last three extensions for the app, i.e., Flower Tool, Arrow Tool and Spirograph Tool. The Flower Tool which draws flowers with different numbers of petals was completed within a day, the arrow tool which makes simple straight line arrows pointing in desired direction also took a day. But, the Spirograph tool was most time taking, it took me almost a week to get it right. I read its wikipedia article for the whole day to understand its mathematical concept. After the bucket-fill tool, this is the extension that required a lot of time for debugging.</p> <p>So, all of my extensions for this app are done by this topic.</p>	
What problems have you faced and were you able to solve them?	
<p>I faced few problems while implementing Arrow tool and Spirograph tool:</p> <ol style="list-style-type: none"><li>1. Arrow tool required a lot of P5js reference exploring to make it always point in the intended direction. But fortunately, at last i was able to solve it by using rotate function and some trigonometry.</li><li>2. The Spirograph tool was very hard to implement. In order to draw lines for making a spirograph I have to calculate previous x and y coordinates so they fall on the same trajectory, it took a lot of time to get its mathematical aspect right.</li></ol>	
What are you planning to do over the next few weeks?	
<p>With all the extensions done only few more tasks are left, like testing the app on various browsers, documentation, adding comments in files, making code consistent, correcting wrong file names, user testing, organizing all diagrams, and making a final report.</p> <p>So, I would hopefully be able to get these tasks done within a few weeks.</p>	
Are you on target to successfully complete your project? If you aren't on target, how will you address the issue?	

Yes, if everything goes well for a few more weeks(i.e. I don't get ill or something), then the project would get completed before the deadline without any rush.

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## Project Log - 2

Project title:	Drawing App
Topic:	Topic 8: Callbacks(Week 16)
What progress have you made on this topic?	
I've completed adding comments, organizing my research for a report, making naming of variables, functions, etc consistent, removing commented out content, adding citations, and organizing my files along with correcting their file names. Project will get absolutely ready for submission once the report is completed.	
What problems have you faced and were you able to solve them?	
Only problem I faced was that I didn't know the styling conventions of JavaScript which got easily sorted out by reading Google's Style Guide for JavaScript.	
What are you planning to do over the next few weeks?	
I will test the app on different browsers, and run user testing on it and modify the app based on the feedback. But before that I will complete till Week 20 to get complete information about testing the app. And if the final submission section will get unlocked then I will try to complete my final report too.	
Are you on target to successfully complete your project? If you aren't on target, how will you address the issue?	

Yes, I am on target to successfully complete my project because of app testing and final report is left which can be done easily in a couple of weeks.

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## Project Log - 3

Project title:	Drawing App
Topic:	Topic 9: Testing for Stability
What progress have you made on this topic?	
<p>I ran the app on different browsers to ensure that it's compatible with most popular ones. I also ran user testing on the app(though with only 5 users), their feedback was really helpful in bringing many small but crucial things which make UX much better but often get overlooked by the developer. So, accordingly I made some changes in app to make it more accessible.</p>	
What problems have you faced and were you able to solve them?	
<p>Finding users to test your app is not an easy task. But fortunately my family members and friends volunteered for it and they gave honest feedback which improved the usability of my app.</p>	
What are you planning to do over the next few weeks?	
<p>Next week, I'm going to write the final report and submit my project.</p>	
Are you on target to successfully complete your project? If you aren't on target, how will you address the issue?	

Yes, once the final report is done my project will get completed.

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### Project Log - 4

Project title:	Drawing App
Topic:	Topic 10: Testing with Users
What progress have you made on this topic?	
<p>I have completed my final report and am going to submit the project. I've answered all the questions and answering them made me realize how effective my planning was, where I could have done things differently to make the project better. Writing the report was a very knowledgeable activity, it forced me to look for faults in my planning and project overall.</p>	
What problems have you faced and were you able to solve them?	
<p>I didn't face any major problem while writing the report, only a few confusions regarding certain questions which got cleared in the webinar with an online tutor.</p>	
What are you planning to do over the next few weeks?	
<p>My project is completed and I'm going to submit it after completing this progress log.</p>	
Are you on target to successfully complete your project? If you aren't on target, how will you address the issue?	

Yes, my project is finally ready for the submission.