IEEE Functional Programming with Erlang

Summer Project

We started the course in May 2017 and our mentors used Slack and Whatsapp as main mode of communication. In the first two weeks, we learnt the basics of the language. Initially when I heard that there were no loops in Erlang, I was thinking “what type of a language this was? :P”. But later on when we learnt recursions and its simplicity in erlang, and I started to get the essence of this language.

We then moved on to learn some more complicated topics like tail recursions, and higher order functions like fold, map, filter etc. Searching for something in erlang, in google was not an easy task, as there weren’t many good websites that useful information. But thanks to the mentors, we came accross this webiste (<http://learnyousomeerlang.com/content>) which had a lot of helpful information.

I used to take out some time every week (4-5 hours) in my summer to work on erlang. I have submitted all assignments (without copying :D) on time, and it gives a me sense of accomplishment. I liked assignment 3 (Yogi and Jinx problem) the most, as it had to do something with time complexity and competitive programming(which i have a passion for). I liked the questions of all assignments in general. They were clear, and an example was also given for each question to have a better understanding.

The project I have worked on is called the “Assignment Judge”, with the help of my teammate Praveen Gupta, and one of our mentors, Vilas M. Assignment Judge is used to run the assignments submitted by students against the solution program, for a given input. It tells whether the ouput produced by an assignment file is correct/wrong, and also compares the execution time. The results are formatted into a table in alphabetical order of assignment file name. For more details on the project visit <https://github.com/Aj163/Erlang-Project>. The project contains a README file which has all the details of our project.

We would to thank the mentors and IEEE for this wonderful opportunity. The mentors have replied to all our queries, whether they were silly or not. This summer project has inspired me to use Erlang more (I have submitted a solution on HackerRank for one of their practice problems using Erlang!!), and explore into other topics.

Report by

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