



Kharagpur Winter of Code'19

End Evaluation Report

By
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Introduction :

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Projects Worked On -

Cinfo (<https://github.com/chavarera/Cinfo>)

RockPaperScissor (<https://github.com/97shivank/RockPaperScissor>)

Interview Preparation Kit (<https://github.com/maze-runnar/interview-preparation-kit>)

May-May Bot (<https://github.com/mukul-mehta/may-may>)

KWOC Stats :

Total PRs	=	29
Closed PRs	=	27
Open PRs	=	02
Total No of commits	=	77

About KWOC :

KWOC — Kharagpur Winter of Code is a 5-week long online program organised by KOSS for the students of various colleges, especially for students of IIT Kharagpur, who are new to open source software development.

About Me :

My name is Deepak Chauhan, pursuing sophomore year in Masters of Computer Application at National Institute of Technology, Jamshedpur. A newbie to open-source but highly enthusiast for new and interesting projects in software development which is why ended up participating in KWOC'19. Looking to prepare for GSOC this year, that's why participated in KWOC to get the exposure of the environment.

My KWOC Experience :

At first it was confusing to learn what I have to do, but the timeline and helping hands at KOSS helped a lot to understand the full procedure, It took me some time to choose what project and tech to go for. As I'm a python enthusiast I chose to focus on python projects for now. Afterwards I chose 2 projects i.e. Ookla SpeedTest Scraper and Cinfo, but couldn't continue to Ookla one as I was not able to find anything to improve or work on, then I focused on this wonderful project **Cinfo** whose project mentor Ravi sir was highly active, responsive and a lot helping in nature. Started out working on it, the rest you can find my work in detailed contribution information coming next. Afterwards I reached a peak point where I was not able to do much more in the projects, then I found this another project named as **RockPaperScissor** maintained by Shivank Sir, a wonderful mentor always ready to appreciate my work. I worked on both projects simultaneously improving front-end and

back-end for both projects mainly for linux version of projects. In the last days of KWOC I started to solve unsolved Java Problems in project **Interview Preparation Kit** whose mentors were active and ready to help. I worked on two more projects but was not able to close the PRs I opened. This is how I worked throughout the KWOC. It felt very competitive by watching stats page daily to let myself grow through bottom to top.

Overview of Project Works :

1) Cinfo :

Language	:	Python3
Operating System	:	UNIX (Kali Linux 19.4 XFCE)
Tools and Libraries Used	:	Sublime Text Editor, PyQt5, OS, Shell Scripting, QT Designer

I mainly worked on the Linux version of the project working from backend scripting for all modules, to creating a CLI version for the software and afterwards making GUI front-end for software. And afterwards creating a complete installation package which let's the software install and directly let it open from application drawer.

2) RockPaperScissor :

Language	:	Python3
Operating System	:	UNIX (Kali Linux 19.4 XFCE)
Tools and Libraries Used	:	Sublime Text Editor, Tkinter, Sqlite3, Shell Scripting, OS

I started working on this project with the aim to improve front-end UI for the project, which afterwards solved the database issues and diving the whole project from one single script to module based project. I mainly worked on the Linux version of the project, afterwards creating a complete installation package which let's the software install and directly let it open from application drawer.

3) Interview Preparation Kit :

Language	:	Java, Python3
Operating System	:	UNIX (Kali Linux 19.4 XFCE)
Tools and Libraries Used	:	Hackerrank.com, Onlinegdb.com

This project was not much of a software development project but it was more focused towards competitive programming, so I made PRs containing solution for different problems in this project .

PRs OVERVIEW

Merged PRs Report (27 PRs):

- 1) Python Scripts for all required modules was added in **Cinfo**.
(<https://github.com/chavarera/Cinfo/pull/4>)
- 2) An extra Script was added to list all installed browser in Linux machine in **Cinfo**.
(<https://github.com/chavarera/Cinfo/pull/7>)
- 3) Added a script for getting all open ports along with protocol and updated script listing installed browsers was updated with more optimized code in **Cinfo**.
(<https://github.com/chavarera/Cinfo/pull/8>)
- 4) Script to get network details was updated, which contracted the code and method by 80% and a CLI version was developed in **Cinfo**.
(<https://github.com/chavarera/Cinfo/pull/15>)
- 5) Output files and screenshots for the CLI version was added to the respective folder in **Cinfo**. (<https://github.com/chavarera/Cinfo/pull/17>)
- 6) CLi script was changed to output the result in more dynamic and optimized way, and file sorting method was implemented in script used to list all files in **Cinfo**.
(<https://github.com/chavarera/Cinfo/pull/20>)
- 7) Readme file was changed with all updates notified and files were rearranged in **Cinfo**. (<https://github.com/chavarera/Cinfo/pull/21>)
- 8) Homepage Ui was improved new theme and color changes in **RockPaperChanges**.
(<https://github.com/97shivank/RockPaperScissor/pull/12>)
- 9) Gameplay UI was improved and new animations were added making gameplay dynamic to the user in **RockPaperScissor**.
(<https://github.com/97shivank/RockPaperScissor/pull/13>)
- 10) Readme was updated with newer details, Linux Ui was changed further for newer information, one module's back-end was linked to front-end in **Cinfo**.
(<https://github.com/chavarera/Cinfo/pull/23>)
- 11) GUI components were linked to all modules except network information module in **Cinfo**. (<https://github.com/chavarera/Cinfo/pull/24>)
- 12) Homepage UI was improved and Network Information module was linked to front-end, moreover a bug from last PR was removed too in **Cinfo**.
(<https://github.com/chavarera/Cinfo/pull/26>)
- 13) Functions to save output in JSON, CSV and text file was added to front-end and functions were created for same in back-end too in **Cinfo**.
(<https://github.com/chavarera/Cinfo/pull/28>)
- 14) Database issues were solved and database scheme was upgraded too, all screen's UI were finalised in **RockPaperScissor**.
(<https://github.com/97shivank/RockPaperScissor/pull/16>)
- 15) Home Screen and Game Screen were now part of single windows instead of two separate windows, a back button was added to game screen to reach back to home screen in **RockPaperScissor**.
(<https://github.com/97shivank/RockPaperScissor/pull/17>)

- 16) Refresh button was bonded with back-end support to refresh current table in GUI in **Cinfo**. (<https://github.com/chavarera/Cinfo/pull/31>)
- 17) Birthday Cake Candles Problem was solved in **Interview Preparation Kit**. (<https://github.com/maze-runnar/interview-preparation-kit/pull/82>)
- 18) Birthday Cake problem was solved in python and Java's solution was improved for solution in $O(n)$ time complexity in **Interview Preparation Kit**. (<https://github.com/maze-runnar/interview-preparation-kit/pull/84>)
- 19) Database UI was now added into the same window as in Home screen and Game Screen window, game directory was restructured in **RockPaperScissor**. (<https://github.com/97shivank/RockPaperScissor/pull/18>)
- 20) Solution for Frequency Queries problem was added in **Interview Preparation Kit**. (<https://github.com/maze-runnar/interview-preparation-kit/pull/87>)
- 21) Making Anagram Problem solved in **Interview Preparation Kit**. (<https://github.com/maze-runnar/interview-preparation-kit/pull/88>)
- 22) Executable File was added for linux users and readme was updated with latest screenshots in **RockPaperScissor**. (<https://github.com/97shivank/RockPaperScissor/pull/19>)
- 23) Max MIn Problem solved in **Interview Preparation Kit**. (<https://github.com/maze-runnar/interview-preparation-kit/pull/92>)
- 24) Readme was updated with instructions for linux users in **RockPaperScissor**. (<https://github.com/chavarera/Cinfo/pull/32>)
- 25) Exe file for window users was added for simple one click usage in **RockPaperScissor**. (<https://github.com/97shivank/RockPaperScissor/pull/20>)
- 26) Bash Script was added for direct installation of program in application launcher in **RockPaperScissor**. (<https://github.com/97shivank/RockPaperScissor/pull/21>)
- 27) Installation bash script was added for direct installation of program in application launcher in **Cinfo** . (<https://github.com/chavarera/Cinfo/pull/33>)

Open PRs Report (2 PRs):

- 1) A reddit meme scrapper bot was added to the project with config file created in **May-May**. (<https://github.com/mukul-mehta/may-may/pull/3>)
- 2) Two UI bugs were solved in **My-Notepad**. (<https://github.com/abhishuraina/MY-NOTEPAD/pull/9>)

Future of Projects:

1) Cinfo :

After working on this project for time span near to one month, this project seems to be a need for new linux users who want to know about their machine but don't know how to, so I would like to make it available to official linux repos bundled as a single software and solving all the bugs remaining with complete UI.

2) RockPaperScissor :

I look forward to make this program available to all linux users by implementing it to all Linux repos. This project can be enriched with some more little games like tic-tac-toe, Bingo and more by making it a mini game hub for linux users.

Final Words :

I would like to thank [Ravishankar Chavare](#) and [Shivank Singh](#), It was nice working with these guys, they helped me a lot and was supportive from start to end of the KWOC and were always responsive towards my requests, Ravishankar helped me a lot in learning a lot in python and guided me throughout the KWOC. I would like to thank KWOC and KOSS team for organizing this event as this helped me to find a new approach in world of programming. I would continue to contribute now onwards to more projects.

**** THE END or A NEW START ****