

**CONFIDENTIAL**



## **INDIVIDUAL PROJECT WORK JUNE SEMESTER 2021**

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### **BACHELOR OF COMPUTER SCIENCE (HONS.) (IN COLLABORATION WITH IUKL)**

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#### **DISTRIBUTED AND PARALLEL COMPUTING (CSC 2624)**

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**MATRIC NO.** : 

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**IC. / PASSPORT NO.** : 

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**LECTURER** : **MANOJ GAUTAM**

#### **GENERAL INSTRUCTIONS**

1. This question booklet consists of 2 pages including this page.
2. There is one **SECTION** in this question booklet.
3. Please submit project in **SOFT COPY (PDF FORMAT)**.
- 4. The DEADLINE FOR SUBMISSION is on 31<sup>ST</sup> AUGUST.**
- 5. Presentation Week: 1st Sept-10<sup>th</sup> Sept**



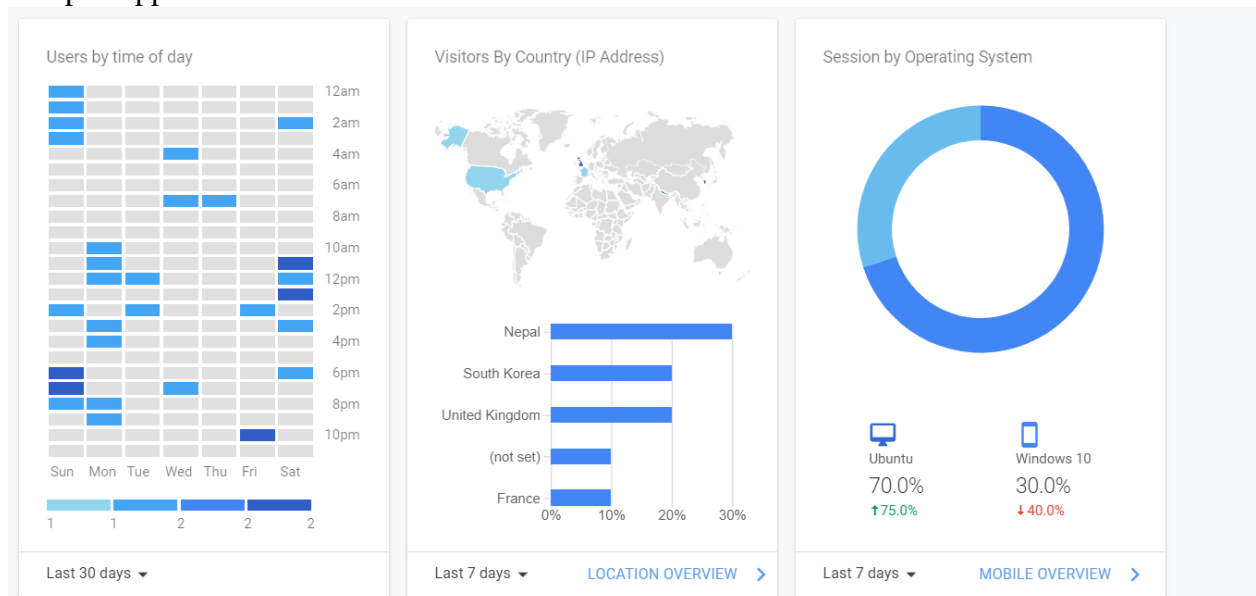
Develop a web based *server log analyzer* tool that aggregate the information and display it in a visual dashboard.

- Display country wise visitors based on the IP address.
- Operating system wise visual dashboard
- Web browser wise visual dashboard
- Users by time of day visual dashboard

```
root@manojubuntu-4gb:/var/log/nginx# ls
access.log      access.log.3.gz  error.log.1      error.log.4.gz
access.log.1    access.log.4.gz  error.log.10.gz  error.log.5.gz
access.log.10.gz access.log.5.gz  error.log.11.gz  error.log.6.gz
access.log.11.gz access.log.6.gz  error.log.12.gz  error.log.7.gz
access.log.12.gz access.log.7.gz  error.log.13.gz  error.log.8.gz
access.log.13.gz access.log.8.gz  error.log.14.gz  error.log.9.gz
access.log.14.gz access.log.9.gz  error.log.2.gz
access.log.2.gz error.log         error.log.3.gz
root@manojubuntu-4gb:/var/log/nginx# tail -n 10 access.log
108.162.237.9 - - [14/Dec/2020:02:15:42 +0100] "GET /wp-login.php HTTP/1.1" 200
2147 "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:62.0) Gecko/20100101 Firefo
x/62.0"
108.162.237.91 - - [14/Dec/2020:02:15:43 +0100] "POST /wp-login.php HTTP/1.1" 20
0 2291 "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:62.0) Gecko/20100101 Fire
fox/62.0"
162.158.75.241 - - [14/Dec/2020:02:15:43 +0100] "POST /xmlrpc.php HTTP/1.1" 200
413 "-" "Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:62.0) Gecko/20100101 Firefox
/62.0"
```

You can download the log files of web server from public database on internet.  
Note, Your application must parse the log files using multiple cpu cores.

### Sample Application



\*\*\* END OF QUESTIONS \*\*\*