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| Connecting Devices and Message Communication using TCP/IP |
| Project Diary |
| Network and Communication- CSE1004 |

**Prepared By:**

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**Dates Worked and Mentioned**

* 01/08/2018
* 22/08/2018
* 29/08/2018
* 30/08/2018
* 01/09/2018
* 05/09/2018
* 06/09/2018
* 12/09/2018
* 13/09/2018
* 19/09/2018
* 03/10/2018
* 12/10/2018
* 14/10/2018
* 17/10/2018
* 24/10/2018

Date- 01/08/2018

* We made a group consisting of three members in the lab today.
* We have searched on different upcoming network research and product development areas together.
* We decided to each find a probable topic and learn about it as prior knowledge will be helpful for implementing the project.

Team Members:

1. Keshav Moorthy - 16BCI0066
2. Simriti Koul - 16BCE2211
3. Oyindrila Sen Gupta -16BCE2274

Date 22/08/2018

* Today as discussed in the previous lab we have each found a topic for our project.
* The topics were:
* Wireless attendance recorder
* Message communication using TCP
* IP based patient monitoring system

* Then we have discussed about all the requirements for implementation. Basically we have jotted down all the pros and cons of each topic to help us decide.
* After much discussion and search we have taken down one topic for our project and that is:
* Message communication using TCP.

Date: 29/08/2018

* Today in the lab it was date to submit our topic and discuss with sir why we have chosen the project.
* We gave our topic to sir and sir said it is too common to be implemented and we should think of something more deeper based on the concepts taught in class
* He gave us suggestions as to try to connect the devices through the TCP and also explained us the concepts.
* We took down sir’s suggestion and all three of us had to make further studies based on what sir said.
* So in the lab we have all studied about how devices are connected and how TCP is integrated to connect it.

Date: 30/10/2018

* After yesterday’s lab, we had decided to meet after our classes today to come to a conclusion as what exactly we are going to take as our project.
* Yesterday after our lab we all had decided to learn about the real time applications of connecting devices and how TCP is integrated into it, so our meeting was based on that.
* Taking sir’s suggestion and also what we had initially planned to do, we had finally come up with our project topic and that is:

**Connecting Devices and Message Communication using TCP/IP.**

Date: 01/09/2018

* Today we have only confirmed the topic with sir and took his further suggestion to which will be helpful for further implementation.
* As our topic was finalized it was time to divide our work among 3 of us for the 1st review
* For 1st review which will be held in Wednesday’s lab, sir asked us to submit Abstract, Features, Requirements, Challenges and Future enhancements.
* So our work was divided accordingly.

Keshav – Abstract and Features

Simriti- Project Requirements

Oyindrila - Challenges and Future enhancements

Date: 05/09/2018

* According to the work division, we have prepared the first review requirements
* We have combined all the points in one paper and showed it to sir.
* After that we were told to start with the implementation part.
* So in today’s lab we started preparing whatever we will need to implement the project.

Date 06/09/2018

* Today we met again and finalized all the requirements beforehand.

Date: 12/09/208

* The project requirements that we have found after previous meeting are:

1. Android Studio
2. Setting up with Android virtual device (AVD)
3. We decided to code in Java
4. Eclipse IDE
5. Mobile device and USB cable for showing the connection
6. Base papers to help in our project.

* Each one of us has downloaded all the software required for the implementation.
* The base paper that we are taking is:

**Remote data access for controlling TCP/IP using android mobile device.**

Date: 13/09/2018

* Firstly started with the server side coding today, we all sat together and understood the underlying structure code for any server side module.

Date: 19/09/2018

* We were still doing the server side coding in Eclipse IDE EE.
* Initially a lot of errors were shown so taking the help of the internet we slowly debugged the errors and finally the server side module was implemented.
* We have tested it by connecting and it got connected.

Date: 03/10/2018

* So earlier our one module was done and was compiled.
* Today we started with the second one which was the client side module. It is also done in Java language in Eclipse IDE.
* We have all put our programming concepts and network concepts for executing the code.

Date: 10/10/2018

* All this date we have been working on the client module.
* We have found difficulty in executing it these days, as we were unable to debug the errors shown.
* Finally in the lab we were able to make the client module but still it was not connecting with the server.

Date: 12/10/2018

* We met again today to work on the client side as it was connecting earlier.
* We found some YouTube videos and forum discussion related to our project which helped us to finally build the connection.
* Then it was to make the message communication which we started working on right after.

Date: 14/10/2018

* We are still working on the message communication part and bringing all the modules together.
* The connection will be shown with the help of Android Studio and AVD.

Date: 17/10/2018

* Today we have completed the implementation part in the lab and simultaneously started making a presentation for our project demo
* The points included in our presentation is:

1. Abstract
2. Features
3. Requirements
4. Architecture
5. Working with Connection
6. Server Module
7. Client Module
8. Mobile Application
9. Challenges
10. Future Enhancements
11. Conclusion

Date: 24/10/2018

We have completed our project, done with the presentation, project diary

Today is the final presentation day, so we practiced among us and revised everything once again to present our demo.