

Course Project for CSC 1202

Introduction to Communications and Information Networks

Objectives:

The project is made up of a small team (approx four people) and requires strong collaboration and a problem solving mindset to get the job done. The instructor will put the teams together with each member being responsible to deliver against a part of the overall work.

The goals of this activity are:

- to help you develop the confidence, skills, and habits necessary to accomplish a team work project
- to develop vital skills in self-directed learning, problem solving, and communication.

Deadline Date: Week 14 – 1st of May

Preparation:

- Create a group of 3-4 members of your class, having one of you as a team leader.
- Agree on a topic related to networking using nowadays technologies/devices. Your topic needs to be practical.
- Discuss your idea with the instructor.

Implementation

- Search for material related to your topic (i.e. websites, books, magazines)
- Synthesize ideas and organize the steps.
- Start practically implementing your project.
- Write your results and findings.
- Work on the group report and on the blog to record your work, keep track of the references.
- Prepare the deliverables.
- Write your individual report
- Reserve a slot in the presentation table.

Group Report / Blog Basic Outline

Table of contents

- Introduction to the project
- Objectives
- Team members' responsibilities and leader
- Background about the topic
- Tools needed
- Create implementation steps (Tutorial) including diagrams / pictures for others to benefit from.
- Results and findings
- Project's blog (URL)
- References page

You can include more parts if needed.

Individual Report (for each member of your group)

Each individual report should be at least 2 pages long, addressing the following topics

- **The work you did for the project.** Fully but concisely explain the work you did. What was your role in the group? Which parts did you work on more than others, and what did you do for each part?
- **What you learned.** What do you now know that you did not when you started your project? Feel free to address your learning on particular subjects (e.g., Networking) as well as in any other relevant areas you can think of (e.g., group work, project design, self-discipline). It is crucial to give examples rather than write generally about your learning. You may find it useful to consider the following questions as you develop this part of your individual report:
 - How did your project work deepen your understanding of concepts in computer networking and/or computer science?
 - To what extent did the final version of your project resemble your original design for the project (as described in your project proposal and project plan)?
 - Which parts of your project work went the way you expected them to? Which ones didn't?
 - How did keeping minutes affect your group's work? How did it shape your experience of your project work?
 - If you were to do this project again, what would you do differently next time?

This section in particular may develop into part of your self-evaluation.

- **The purpose of your project and how your project connects to each part of your life.** Here we're particularly interested in how you're able to

see your project work as an extension of your work in the rest of the program.

Presentation

Including to the report requirements:

- A demo needs to be presented.
- Questions regarding your topic should be received from the audience and answered properly.
- The presentation duration is 30 minutes maximum.

You can include more parts if needed.

Deliverables:

- A project report that captures your work will be submitted as part of the assessment.
- Blog with all your work uploaded
- Power point slides
- Hard copy of your report printed on regular A4 paper, no fancy printing or wrapping is allowed.
- Soft copy on a CD (Report + power point slides)

Time Table

2 weeks topic selection

5 weeks for questions and follow-up on project progress

Group project Deadline on Monday / the 14th week

Individual project Deadline on Saturday/ the 14th week

1 week for presentations

Assessment

This project is worth 20% of your overall course work. Your overall assessment will include peer assessment, where team members evaluate each other.

SUGGESTION TOPICS:

1. Chatting between computers
2. client/server , database is stored on the server
3. Remote desktop to fix problems

4. Video Surveillance through network
5. Sharing external hard drive and printer, creating a wireless network
6. Creating a network between computers and mobiles using Bluetooth
7. Creating a network between computers and Mobile phones using mobile network
8. Network Security
9. Monitor computers activity in a network using net support school
10. Using the laptop as a router
11. Connecting different [network topology] together

Please check the following link for previous network projects:

<https://docs.google.com/spreadsheet/ccc?key=0AlriMvZaHsj6dFpQWHJ3cDVEdWM0ZzBVdzdGYmROVEE>