Building a BuB Community (C4EU 5.5.1: Report on support actions - training and networking)

Name Name, and Name Name

Abstract

This is the abstract

Index Terms

Bottom-up-Broadband (BuB), wifi, super-wifi, fiber, sensor networks

Affiliation

CONTENTS

LIST OF FIGURES

LIST OF TABLES

I. Introduction

This is the introduction blah blah blah blah blah blah blah. Blah blah blah blah. Blah blah blah blah. Blah blah blah blah.

II. Mentor program and academic advice

The students selected to participate in the Commons for Europe (C4EU) project do so as part of their education at the university. Specifically, this training is divided in two different blocks: *practicum* and *degree thesis*. The practicum involves real-world work in which the students have the opportunity to use the skills they have learned in regular courses. It is also the opportunity to realize that real-world work is far away from the courses taught at the university, which means that the students have to make an extra effort to get acquainted with technologies and work-flows that they have not learned in class.

The *practicum* is not a controlled environment as the course lab assignments are. Things can go wrong, and it is important to understand and accept it. Furthermore, there is not a teacher that *knows the solution*. This means that the level of effort to achieve results is much higher in the practicum than in a course assignment, as it is possible to get stuck and it may take days or longer to find a solution or a workaround. The effor is measured in the European Credit Transfer System (ECTS). The *practicum* has a value of 20 ECTS credits, which is equivalent to 400 hours of work.

The students are not alone in this quest. A *mentor* is assigned to each student to indicate the tasks that the student has to do and provide the necessary help and guidance. As the practicum is tied to a real-world work, the *mentor* needs to be someone that has been working in this real-world for some time.

Besides the actual technical skills acquired in the execution of the *practicum*, the students are also expected to practice *soft* skills such as participation in meetings, effective communication, organization of work to meet schedules, generation of documentation, etc. For some people, the practicum can be the starting point of a professional career.

In the next months, we will assign a mentor to each of the student participating in the C4EU project. It is important that the mentor is someone from outside the university that

is very familiar with bottom-up-broadband and with the pilot. We have already taken the decision for two students:

- Nacho Justel will be mentored by Giovanni Calcerano in the FreeEuropeWiFi pilot.
- Jorge Beltran will be mentored by Roger Baig in the fiber-from-the-home (FFTH) pilot.

In addition to the *practicum*, the students also have write their *degree thesis*. This thesis is an academic document that is necessary to obtain the degree. In the thesis, the students will comprehensively describe their pilot. As an academic document, it has to be carefully written, well structured and profusely documented. It is necessary to include introductory material, related work and references. It is also important to include a detailed work-plan with descriptions of the tasks. The work should be described in such a way that an external evaluator can understand what is the contribution and why it is important.

The *thesis* has also a value of 20 ECTS credits, which means 400 additional hours of work. This part of the work will be supervised by an academic advisor from the university. There is hard deadline for the *thesis* in June. Not meeting this deadline would represent a delay of one year in the obtention of the degree. For this reason, it may be a good idea to plan the work in such a way that the thesis is finished considerably earlier, to have some *safety margin* in case of unexpected events.

LaTeX is a popular document preparation system in the academia, that we will also use in the preparation of the thesis. It is convenient to structure a large document in chapters, sections and subsection. It also provides support for references and cross-references. And automatically generates tables of contents, tables of figures, bibliography, etc. Our idea is to use LaTeX also for the preparation of the documentation of the C4EU project, in such a way that it can be re-used in the preparation of the thesis of the students.

Another tool that can be helpful in the preparation of the documentation is github. Github is a web based extension of the git revision control system, and makes it possible that different people work in parallel on the same document, suggest changes, rollback modifications, etc. in a distributed fashion.

III. Internal Workshop

IV. Mailing list

V. Web

VI. External international forums

VII. Conclusion

And this is the conclusion.

Acknowledgment

This work has been partially funded by the European Commission (grant CIP-ICT PSP-2011-5). The views expressed in this technical report are solely those of the authors and do not represent the views of the European Commission.