BSPro - A First Bachelor Semester Project in

BiCS-land

Monday 18th November, 2019 - 15:49

Motivated Student

University of Luxembourg Email: [motivated.student@uni.lu](mailto:motivated.student@uni.lu)

Motivated Tutor

University of Luxembourg Email: [motivated.tutor@uni.lu](mailto:motivated.tutor@uni.lu)

Abstract

2.1.2. Technical. Provide a description of the technical do-

main(s) in which the project is being made.

*This document is a template for the scientific and technical (S&T*

*for*

*short) report that is to be delivered by any BiCS student at the end of each Bachelor Semester Project (BSP). The Latex source files are available at:* [*https://github.com/nicolasguelfi/lu.uni.course.bics.global*](https://github.com/nicolasguelfi/lu.uni.course.bics.global)

2.2. Targeted Deliverables

2.2.1. Scientific deliverables. Provide a synthetic and abstract

description of the scientific deliverables that were targeted to be produced.

*This template is to be used using the Latex document preparation system or using any document preparation system. The whole document should be in between 6000 to 8000 words (excluding the annexes) and the proportions must be preserved. The other documents to be delivered (summaries, . . . ) should have their format adapted from this template.*

2.2.2. Technical deliverables. Provide a synthetic and ab-

stract description of the technical deliverables that were tar- geted to be produced.

1. Introduction (± 5% of total words)

This paper presents the bachelor semester project made by Motivated Student together with Motivated Tutor as his moti- vated tutor. It presents the scientific and technical dimensions of the work done. All the words written here have been newly created by the authors and if some sequence of words or any graphic information created by others are included then it is explicitly indicated the original reference to the work reused. This report separates explicitly the scientific work from the technical one. In deed each BSP must cover those two dimensions with a constrained balance (cf. [[BiCS(2018b)](#_bookmark2)]). Thus it is up to the Motivated Tutor and Motivated Student to ensure that the deliverables belonging to each dimension are clearly stated. As an example, a project whose title would be “A multi-user game for multi-touch devices” could define as scientific [[Armstrong and Green(2017)](#_bookmark3)] deliverables the

following ones:

* + Study of concurrency models and their implementation
  + Study of ergonomics in human-computer interaction The length of the report should be from 6000 to 8000 words

excluding images and annexes. The sections presenting the

technical and scientific deliverables represent ± 80% of total words of the report.

1. Project description (± 10% of total words)

2.1. Domains

3. Pre-requisites ([5%..10%] of total words)

Describe in these sections the main scientific and technical knowledge that is required to be known by you before starting the project. Do not describe in details this knowledge but only abstractly. All the content of this section shall not used, even partly, in the deliverable sections.

3.1. Scientific pre-requisites

3.2. Technical pre-requisites

4. A Scientific Deliverable 1

For each scientific deliverable targeted in section [2.2](#_bookmark0) provide

a full section with all the subsections described below.

4.1. Requirements (± 15% of section’s words)

Describe here all the properties that characterize the de-

liverables you produced. It should describe, for each main deliverable, what are the expected functional and non func- tional properties of the deliverables, who are the actors exploiting the deliverables. It is expected that you have at least one scientific deliverable (e.g. “Scientific presentation of the Python programming language”, “State of the art on quality models for human computer interaction”, ) and one

technical deliverable (e.g. “BSProSoft - A python/django web- site for IT job offers retrieval and analysis”, ).

2.1.1. Scientific . Provide a description of the scientific do-

main(s) in which the project is being made.

4.2. Design (± 30% of section’s words)

Provide the necessary and most useful explanations on how those deliverables have been produced.

7. Appendix

All images and additional material go there.

4.3. Production (± 40% of section’s words)

Provide descriptions of the deliverables concrete production.

It must present part of the deliverable (e.g. source code extracts, scientific work extracts, . . . ) to illustrate and explain its actual production.

4.4. Assessment (± 15% of section’s words)

Provide any objective elements to assess that your deliver-

ables do or do not satisfy the requirements described above.

5. A Technical Deliverable 1

For each technical deliverable targeted in section [2.2](#_bookmark0) provide

a full section with all the subsections described below. The cumulative volume of all deliverable sections represents 75% of the paper’s volume in words. Volumes below are indicated relative the the section.

5.1. Requirements (± 15% of section’s words)

cf. section [5](#_bookmark1) applied to the technical deliverable

5.2. Design (± 30% of section’s words)

cf. section [5](#_bookmark1) applied to the technical deliverable

5.3. Production (± 40% of section’s words)

cf. section [5](#_bookmark1) applied to the technical deliverable

5.4. Assessment (± 15% of section’s words)

cf. section [5](#_bookmark1) applied to the technical deliverable

Acknowledgment

The authors would like to thank the BiCS management and

education team for the amazing work done.

6. Conclusion

The conclusion goes here.

References

[BiCS(2018a)]

BiCS Bachelor Semester Project Report Template.

https://github.com/nicolasguelfi/lu.uni.course.bics.global University of Luxembourg, BiCS - Bachelor in Computer Science (2017).

[BiCS(2018b)] Bachelor in Computer Science: BiCS Semester Projects Reference Document. Technical report, University of Luxembourg (2018) [Armstrong and Green(2017)] J Scott Armstrong and Kesten C Green. Guidelines for science: Evidence and checklists. *Scholarly Commons*,

pages 1–24, 2017. https://repository.upenn.edu/marketing*p apers/*181*/*