

Multimedia Services

Practice C (continuous assessment)

1. Introduction

This document sets out the information needed to carry out the practice required in C sessions of the Multimedia Services course for the academic year 2024-2025. This specification is valid for all those who follow the continuous assessment. Any doubt about this document or about the practice itself can be discussed through the classroom hours or in the e-mail yolanda@det.uvigo.es

2. Practice objective

The main objective of the C hours of this course is to develop a project related to transmission of video over IP networks. In this way, the student has to put into practice the concepts learned in the theoretical part of the subject. The particular projects that will be carried out in this practice will be defined by the students. The idea is to carry out a project by playing with some of the following concepts:

- Streaming video servers.
- Different combinations of video streaming.
- Different streaming protocols.
- Different bandwidths available.
- Different latencies.
- Any aspect considered important in relation to the contents explained in the subject.

Students have the freedom (and the responsibility) to independently search and choose the appropriate technologies to carry out their project. Nowadays there are multiple solutions related to the deployment of a streaming server, to the libraries for the manipulation of video streaming, to the video clients, etc. Each specific project must adopt the appropriate combination of technologies to achieve its objectives and overcome the challenges proposed.

3. Teamwork

During the classroom hours there will be a tracking of the distribution of the tasks between each member of the team. Likewise, this division of tasks will have to be reflected in the final report of the work and in the oral presentation.

4. Key dates

December 10, 2024 (12:00 - 14:00). Oral presentations of teams' projects in AS06 lab. Attendance at this event is mandatory for all of the team members.

January 10, 2025 (23:59). Deadline for Practice C submission (report and software code). Delivery will be made through Moovi. The report must be delivered in PDF format.

5. Oral presentations

5.1. Description

The objective of the oral presentation is to show to the class the project that each team is developing. All the members of the group must participate in the exhibition. During the exhibition, the work done will be detailed justifying the choice of technologies, protocols, etc. It may be a good idea to show a prototype that contains some of the functionality of the project. This presentation takes place when the project is still been developed. It is understood that the projects present on-going work. This circumstance can be used to exchange useful information between the different teams and maybe to redirect some erroneous decision.

The maximum time given to each group for its presentation will be around 20-25 minutes (depending on the number of groups). At the end of the presentation, a round of questions will be opened.

5.2. Evaluation

The oral presentation represents the 10% of the total grade for the course. The evaluation will be shared between the teacher and the students. On the day of the presentations each student will have to evaluate each presentation using a rubric.

The grade does not have to be shared among all members of the group. Some aspects may be assessed individually for each team member. In particular, the following aspects will be taken into account:

- General clarity of the work exposure.
- Performance of each member.
- Complexity of the solution.
- Level of knowledge showed.

6. Written report and project code

6.1. Description

The project must be documented describing the functionalities, technologies used, distribution of tasks within the group, development stages, problems encountered with possible solutions, etc. The project code, as well as **instructions for installation and execution of the project must also be provided.**

Visual samples of the operation of the project will be taken into account (through screenshots or videos). The memory has no size limitations. Since there is about one month and half between the oral presentation and the delivery of the report and the project code, it is understood that there must be an adequate progression of the projects between the two events.

6.2. Evaluation

The report and the project code represent 20 % of the total grade of this course. The report will have a free format and each group will include everything it considers relevant.

Since each group must detail the distribution of tasks, the grade will not be necessarily shared among all the members of the group. In particular, the following aspects will be taken into account:

- Quality of the presentation of the document.
- Organization in sections.
- Content (relevance and usefulness of the proposal, design decisions, technologies used, complexity of the project, etc.).
- Visual probes (screenshots or videos of the operation).
- Quality of the text (writing, clarity, grammar, spelling, etc.).
- Quality of the software code submitted.