

# Construction Task Sheet

## The Tutoria Project

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Construction in the Unified Process takes a project through to the Initial Operational Capability (IOC) milestone and beta release. IOC represents the point at which developers consider the product to be operational and ready for deployment and real-world testing in the client's environment. All major risks have been mitigated in Elaboration and the remaining work for Construction is straightforward.

A full Construction phase would add all remaining functionality and exception handling, fully implementing all use-case extensions. In terms of learning, the routine work in Construction does not offer much and so our final phase will add only some of the remaining features that are typical of Construction. Your major deliverables for this phase will be the final, definitive versions of project documents, source code and product. You will demonstrate your IOC executable at the end of the phase.

There are several pieces of functionality in Tutoria that are of low priority and need not be added for the IOC release. There are also some routine, low risk details that can be omitted. You can consider those features to be out of scope for the course project – they are the features that have not appeared as requirements in Elaboration and are not present here in Construction. If, however, you have already implemented them in whole or in part, you are not required to remove them. Update the Release descriptions in your Vision and Scope document to reflect what is included in your IOC release (Release 1) and what will be deferred (add to Release 2).

### Description: Construction

Build on your E2 executable to add the following functionality after extending, if necessary, any related use case descriptions. It is likely you may have included some of this functionality already during Elaboration.

With reference to stakeholder needs, your IOC executable will add the simplest forms of:

#### User Services (various):

- (for Users) view a transaction history for their wallet for the past 30 days.
- (for Users) view details of their upcoming tutorial sessions.
- (for Tutors) view the status of their timeslots for the current and next week.

#### Profile Management:

- (for Users) specify a name, contact email address and a contact phone number.
- (for Tutors) tag their profile with general subjects they can tutor.
- (for Tutors) specify an hourly rate if they are not a contracted tutor.
- (for Tutors) black out timeslots for which they are not available.
- (for Tutors) activate or deactivate their profile for display to prospective students.

#### Wallet Management (simulated as outlined in Section (f) of the Project Description):

- (for Tutors) transfer money from their wallet.
- (for Students) add money to their wallet.
- (for MyTutors) transfer money from their wallet.

#### Review Session:

- (for Students) submit a review of the tutor after a tutorial session.

## **Deliverables (Construction)**

### **1) Requirements, Analysis and Design Documents**

Package together a final version of each document delivered in Inception and Elaboration, including any changes you made during Construction to make corrections or to document new realizations.

This will be the definitive document set for your project and will be evaluated as a whole during the final and most heavily weighted stage of assessment.

### **2) Implementation**

Extend the previous E2 increment as described above and deliver your final Tutoria source code by zipping the root directory of your Django project.

Include a Readme file outlining any limitations of the executable with respect to the requirements of Elaboration and Construction – for example, is anything not working correctly? Also include in the Readme file any special steps required for deployment that are not already stated in your Vision and Scope document or Supplementary Specification.

### **3) Details of Teamwork**

Outline the structure of your project team and list the general responsibilities of each member. If several team members worked on a major deliverable like an executable, we need to know if the work was evenly distributed among those members or whether one or two members did most of the work. Outline how you communicated as a team and how you assigned and coordinated development activities.

Give a numerical indication of the relative contribution of each team member to each iteration (and so, four scores per team member) on a six-point integer scale of 0 (no contribution at all) to 5 (excellent contribution). If any team member is given several scores of 0 or 1, we will follow up with them to determine the reason. Some redistribution of the team's project marks may result. Contact us independently if you do not agree with the assessment submitted by your team for this deliverable.

## **Delivery:**

Please upload a zipped file to Moodle containing your definitive set of documents, including the teamwork document. Upload a second file containing your zipped Django project files as described above.

Please deliver 2 hard copies of your definitive document set. You do not need to include hard copies of your user interface prototypes.

## **Deadline:**

November 26 (Sunday), 11:55pm