

Call for Bids

Name of Project: **Unit Tests in ILIAS Step 1: Investigation**
Deadline for Bids: **August 20, 2017**
Hand in Bids to: Matthias Kunkel, ILIAS open source e-Learning e.V., kunkel@ilias.de

Dear All,

The Technical Board of the ILIAS society hereby calls for bids for the following project:

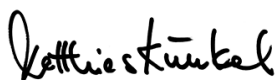
In the strategy 2017 of the technical board we declare in section “Reliable Learning Management” that “the development process is backed by an environment for continuous integration that enables regular execution of automated tests” and claim “unit tests to begin to be a requirement”¹.

Currently we lack a proper centralized source of information pointing to all relevant know-how and things to consider while devising unit tests for ILIAS. Therefore, we initiate this research and documentation project as first step towards this envisioned environment for continuous integration.

Details of the project are outlined on the next pages. Please hand in your bids and a corresponding statement of work by email according to the information in the header.

Bids will be judged by the offered price and the details outlined in the statement of work. We are looking forward to your submissions.

Best regards,



Matthias Kunkel

on behalf of the Technical Board of the ILIAS society

¹ See Strategy 2017: https://www.ilias.de/docu/goto_docu_file_5585_download.html

Project Details

Name of Project: **Unit Tests in ILIAS Step 1: Investigation**

Latest date of delivery: **October 31, 2017 for the PR of the tests/README.md to be discussed in the JF.**

Goals and Benchmarks:

Goal

- Ease the conception and implementation of Unit tests for developers by providing an easy to find collection of existing important information concerning unit tests in ILIAS.

Benchmark

- Having one single source in the ILIAS repo containing or pointing to all relevant information, guidelines and examples existing in ILIAS.

Deliverables:

- PR including the tests/README.md containing all gathered information concerning Unit tests in ILIAS and/or links to further sources or documents presenting this information. This may also contain links to external sources (e.g. the PHPUnit documentation).
- Set of guidelines in the tests/README.md files containing all already agreed upon guidelines concerning unit tests.
- Set of examples in the tests/README.md which shows how unit tests for common scenarios in ILIAS can be devised (if possible pointers to existing tests should be provided). The set of scenarios covered by the example will result of the set of scenarios found during research for which already tests exist.
- FAQ containing at least answers to the following question (the answer may also be, that this question has no final answer yet):
 - What needs to be tested?

- How is a local test environment set up?
- How do I start unit tests for ILIAS in PHPStorms and Console?
- Where do I put my unit tests?
- What is the ILIAS CI-Server and how can I benefit from it in terms of unit tests?
- What do I need to consider concerning tests before pushing code to the ILIAS repo?
- Presentation of the tests/README.md in the JF. If the research of existing guidelines for ILIAS unit tests revealed contradictory guidelines or guidelines that have been implicit up to this point they must clearly be outlined in the discussion and resolved.
- Removal/refactoring of other sources concerning unit/tests in ILIAS (e.g. Dev-Guide) by linking to the new source in tests/README.md.

General Conditions: The following steps will have to be completed:

- Discussion of a first proposal of the tests/README.md with the TB.
- Revision of the tests/README.md according the feedback of the TB.
- Discussion of the proposal of the tests/README.md with the JF.
- Revision of the tests/README.md according the feedback of the JF.
- Merge of the test/README.md after the final approval of any member of the TB.
- Removal/Refactoring of former sources for information of unit tests on ilias.de.