

**Assignment 5**  
**Exploratory testing and UI Web Automation Testing**

**Assignment Objectives:**

- Generating test cases for different levels of testing, integration testing and Exploratory testing (SBTM).
- Use of **archetype Serenity, JUnit**; [See **Info-Web-UI-serenity-junit** in Teams General->Files->Laboratories->Tutorials]

**Assignment = In-Class assignment + Take-Home assignment**

- **In-Class assignment**

- First hour of the laboratory. Maxim 25 XP
- TO DO:

1. **Session Based Test Management – SBTM (See Lecture 8, Seminar 4) (25 XP)**

- For the **addGrade** feature conduct a SBTM session
- Each student from the team for 30-60 minutes
- Each student will create a different file + the charts and analysis of the session
- Instructions how to use the template
- <https://altom.com/sbtm-with-itester-and-google-drive/>
- SBTM template available here (use your gmail account):
- <https://docs.google.com/previewtemplate?id=0Aqk-dNwZsfwrDHlfYTRSN3FKQzIVenBYWUhZUk44REE&mode=public>
- For creating the report use the template
- <https://docs.google.com/previewtemplate?id=0Aqk-dNwZsfwrDG9Eazhyc0tSMHNOc1ZRQzZFdFRLMGc&mode=public>

- **Take-Home assignment**

- At home. Maxim 75 XP
- TO DO:

1. **UI Web Automation Testing**

- A. Use the template (25XP)
  - Create project archetype.
  - Implementing 2 test cases (add 2 more terms to search).
  - Generate documentation using “aggregate”.
- B. Test an existing web page (50XP)
  - Use DDT. Create a csv file with the input data to be tested.
  - For a chosen web page (e.g., [www.eximtur.ro](http://www.eximtur.ro), [www.emag.ro](http://www.emag.ro), [www.cs.ubbcluj.ro](http://www.cs.ubbcluj.ro)), identify and test 2 functionalities (add, search, filter, etc) of the web page.
  - For each functionality 2 test cases will be created (1 test case with valid data and 1 test case with invalid data).
  - Generate documentation using “aggregate”.

**Assignment and Delivery date:**

1. Assignment date: laboratory 4
2. Delivery date for **In-Class assignment**: laboratory 4 (max 25 XP)
3. Delivery date (first) for **Take-Home assignment**: laboratory 5 (max 75 XP)
4. Delivery date (last) for **Take-Home assignment**: laboratory 6 (max 25XP)

**Turn in:**

Delivered and presented in class AND upload on canvas after Delivery in class the following archives (IC for In-Class delivery, TH for Take-Home delivery, 93X change with your group, Name01Name02 the name of the team)

- a. Lab4\_IC\_93X\_Name01Name02.zip
  - i. SBTM generated file for the **addGrade** feature.
- b. Lab4\_TH\_93X\_Name01Name02.zip
  - i. Source code: Implementation for the UI Web
  - ii. Source code: Implementation of the test cases.
  - iii. The generated documentation of the testing test cases using "aggregate".

**References** - See Lecture 5 (UI Web) Lecture 8 (Exploratory testing), <http://www.testingeducation.org/BBST/exploratory/>