Experiment package

* Experiment script
* Task description printouts (Name and subject Id written for the 2nd run)
* Students’ instructions printouts
* Bowl + numbers to draw; BSc: 1-99
* Laptop, charger, VGA, HDMI adaptor
* Board marker
* Student list
  + name, student id 🡪 printout from BB

Experiment starts at T (BSc: T=14:15)

T: Enter the lab

* Turn on the lights
* Start presentation computer and projector
* Open the pre- and post-questionnaire for responses
  + Write to the blackboard that students shall settle and check their mails for “BB Mails”

T: Students arrive

* Let students take their seats (check for as much space as possible)
* Let students draw a number (session ID)
* Remind students to check their laptops
* Send “BB Mail” with the link to the pre-survey

T+15: [5 min] Introduction

* Intro
  + We will distribute the instructions and go over them all together and check them as we proceed.
  + When we are all ready we will give the task description
  + At the end we will submit together
  + Don’t leave before we come and check your submission
* Distribute instructions (remind them to wait). Ask them to fill in their name, etc. Session ID is the number drawn in the beginning.
* Walk through the instructions.
  + Is there anyone who has not completed this step.
  + Mark the checkbox for this step
* Remind them to check the boxes for the completed steps and we will control their list.
* Do not turn over the page. We will go over the submission instructions together after you work on the task for 2 hours
* Fill-in the pre-project survey (see link in “BB Mail”)
* RECORD TIME

T+29: Distribute the task descriptions

* Now we will distribute the task descriptions. Please do not turn them over until we say so.
* Place them face down and ask them not to open
* Pay attention to control and treatment assignments
* When everyone has the task description ask them to open it
  + You can now look at the task description
* The task is to implement an application that can calculate the score of a single bowling game. The rules for the calculation are explained in the task descriptions. You are expected to use Test-fist or Test-last approaches.
* Do not interact with each other. Raise your hand if you have any problems.
* Publish the scaffold and make it accessible.
* Raise your hand if you finish early

T+30: [120 min] Implementation

* Show the methods and tell them they should not change the signature
  + You should not change the names of the existing classes.
  + You should not change signatures of the existing methods.
  + You can add other helper methods.
* RECORD TIME
* Note the start time if any of the students starts later than the others
  + Students shall note the time on their check list as well

[T+30 – T+2:30] Checks while students are working on the task

* Student works properly/any problems
* Check the student has correct task description for his/her group
* Check that students really do their task…

T+2:20 10 minutes left

T+2:25 You have 5 more minutes. We will start submitting in 5 minutes.

(prepare the “BB Mail” with the link to the evaluation questionnaire)

T+2:30 [10 minutes] Submissions

* Please stop implementation. We will submit the projects now. Again follow the instructions on check list and mark the completed steps. Do not leave before we come and check everything is OK.
* Walk through the submission steps: Submit to the BB-Assignment
  + Check for naming schema
  + If you are done you can proceed with the evaluation questionnaire
* Do not close the browser windows for the questionnaire.   
  We will check them.

T+2:40 [10 minutes] Post questionnaire

* Please complete the questionnaire.
* Do not close the window after you submit. We will check the submission page.

T+2:50 Final checks

* When you are done, raise your hand. We will come and check everything is OK. Do not close the browser windows for the questionnaire. We will check them.
* Collect check list and task description
* Check questionnaire
* Tell them not to talk about the exercise:
  + Do not discuss this exercise with anyone until the end of this week.

After session

* Close questionnaire
* Download the files