

## מסמך דרישות

שם פרויקט: VPL

הערות	<b>גוס</b> (פונקציונאלית/ לא פונקציונאלית)	סוג הרשאה/ משתמש	תיאור	מס' מזהה
Below	Functional	Practitioners/Lecturers /assignment checkers	Upload new assignment with VPL plugin	1
	Functional	Practitioners/Lecturers /assignment checkers	Upload execution files (scripts) for the pre- running	2
	Functional	Student	Submit the solution multiple time and receive feedback on the work in real-time	3
	Functional	Practitioners/Lecturers /assignment checkers	Review the student submissions	4
	Functional	Practitioners/Lecturers /assignment checkers	Submit grade for each student considering the proposed grade and the other properties	5
	Functional	VPL plugin	Support variety of programming languages	6



#### **Explanation:**

The VPL plugin must be installed and configured on the Moodle platform.

\* The plugin should allow educators to create and upload test cases for each programming task, including the expected input and output for each test case.

Part of the tests will be pulled by a script into the VPL plugin, and store them in the workspace environment location.

These test files may be uploaded by the lecturer or practitioner either through GitHub or manually.

The VPL tests should be dependent on these test files.

\* Students should be able to submit their code multiple time and receive feedback on their work in real-time. The submission will be due to the specific programming course requirements (ZIP folder and GitHub URL etc.)

\* The plugin should allow the educators to review the student submissions according to pre-written script which we will provide.

The script should be able to accept a GitHub URL or a ZIP file as an input.

- If a GitHub URL is provided, the script should clone the repository and extract the necessary files .
- If a ZIP file is provided, the script should extract the necessary files from the ZIP file.

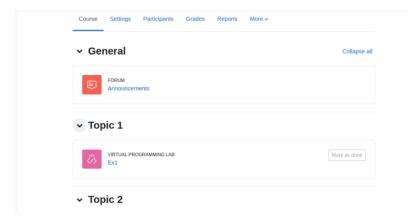
The extracted files will be saved in an appropriate location in the working environment.

\* The plugin should be integrated with the Moodle gradebook, allowing educators to easily assign grades to students based on their code submissions.

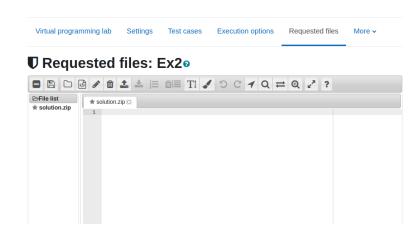


### The procedure:

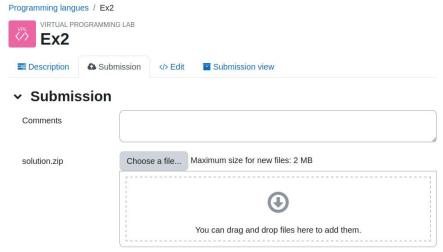
1- open new assignment with VPL plugin:



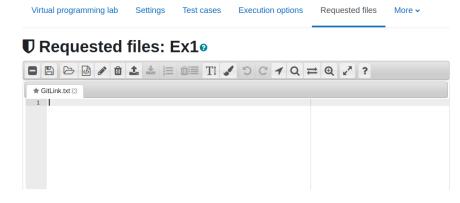
**2-** In the setting for the new assignment we have few options for the students submission. For the courses that the students submit their code with ZIP directory (C, Networking, Introduction to Programming )- the practitioner will create a new file in the requested files tab, with .zip extension



### The students will drag the file to:

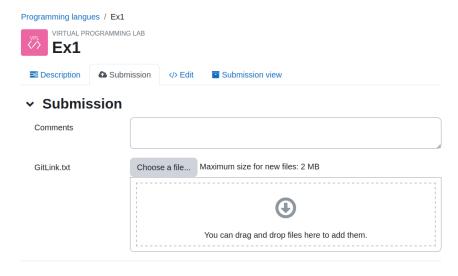


For the courses that the students submit their code with git URL (C++, OOP, Operating System, DataBases), the practitioner will create a new file in the requested files tab, with .txt extension.





### The students will drag the file to:



3- For those two options, practitioners will add the pre-run-script to the execution file. It will be the same script for both types of submission.

As well this script will test the student's submission. Example:

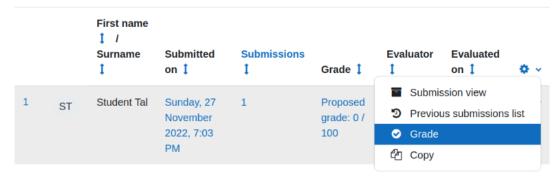
# </> Execution files: Ex20



# אוניברסיטת אריאל בשומרון

**4-** Practitioners/Lecturers/assignment checkers get proposed grade from VPL evaluation , that they will be able to submit for the student:





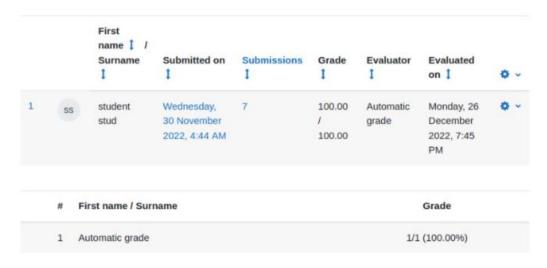
VPL



#### After teacher check:

1 St Student Sunday, 27 1 100.00 / Teacher Monday, 12		First name   / Surname	Submitted on ‡	Submissions ‡	Grade	Evaluator	Evaluated on ‡	<b>o</b> ~
	1		November 2022, 7:03	1	100.00		December 2022, 11:57	<b>o</b> ~

The practitioners will have as well an option to choose for automatic grade, which will be proposed by VPL when the student submit his code and it will be updated directly on the student's moodle.





5- From student side: Student can submit their code as many time as they want, and get a grade due to Practitioner's test:

# Grade

Reviewed on Monday, 12 December 2022, 11:57 AM by Teacher Teacher

Grade: 100.00 / 100.00

Assessment report � [-] [+]Summary of tests