



# *TEST RUNNER*

*First Delivery*

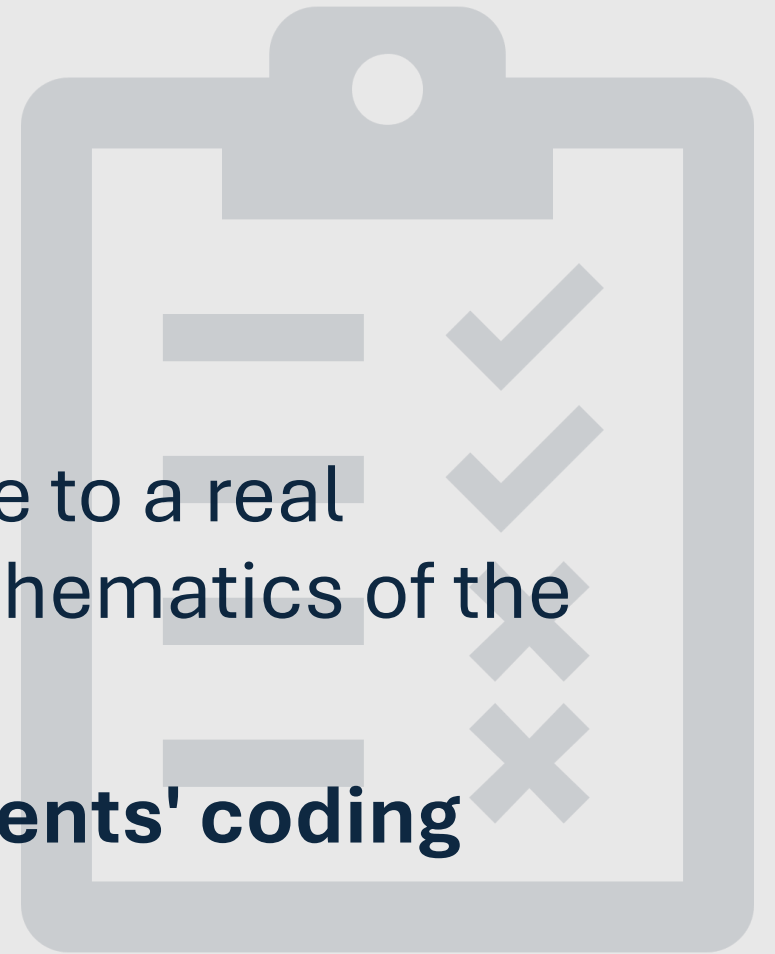
# *PROJECT DEFINITION*



# *Problematic*

The project starts as a direct response to a real problem present in the Faculty of Mathematics of the UADY:

- Teachers **cannot evaluate all students' coding assignments.**
- Students **often do not receive feedback** on the correctness of their code answers.



Test-Runner is a command line **tool for code testing**, based on input-output files.

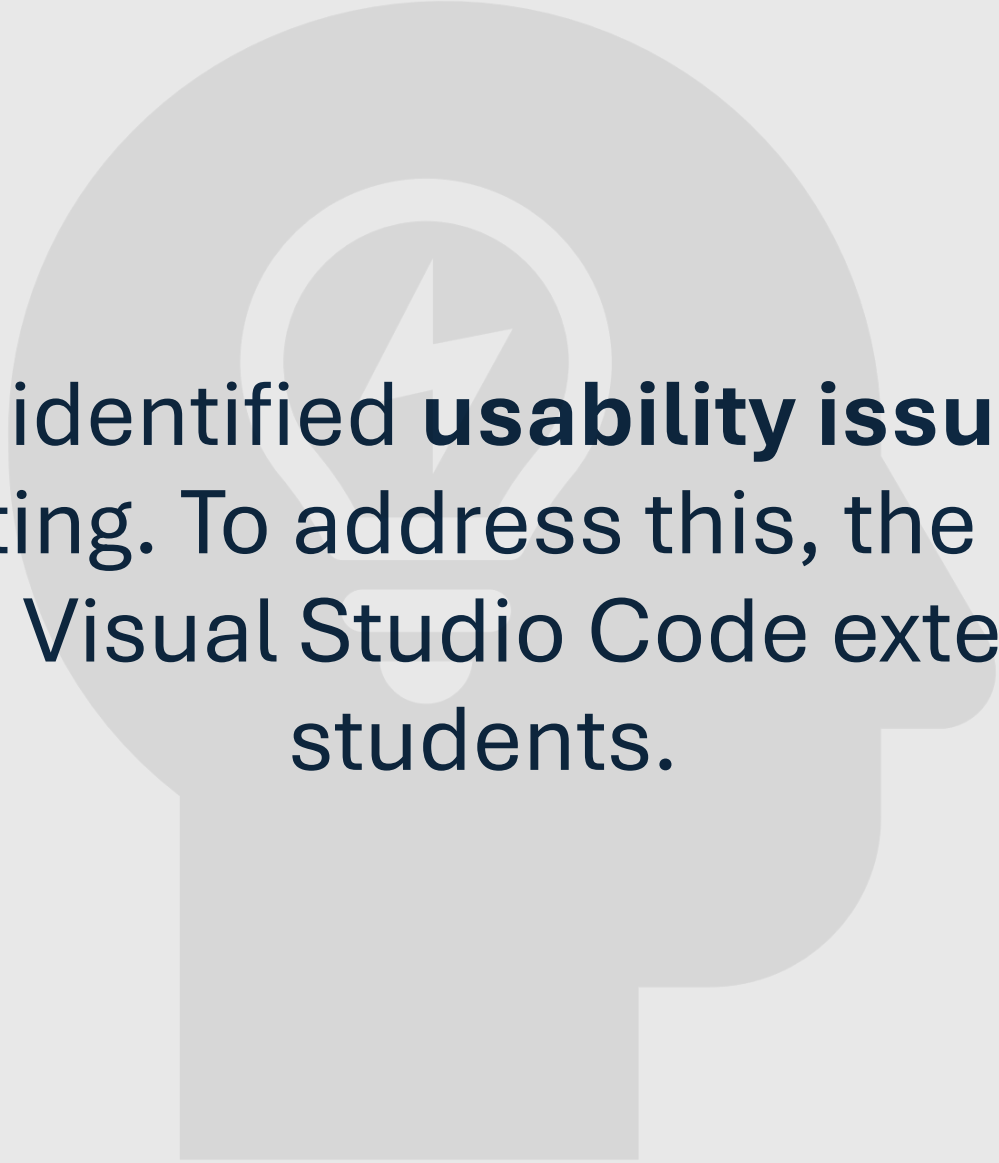
The tool is oriented to:



- Support ***students*** in the first semesters of computer science university degrees.



- ***Professors*** who teach subjects that involve the use of programming languages.



The project identified **usability issues** through student testing. To address this, the project will develop a Visual Studio Code extension for students.

# *USER ANALYSIS*



# Survey

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## Encuesta sobre exploración de estudiantes de cómputo

Esta encuesta tiene el objetivo de analizar las características de los estudiantes universitarios de la carrera de Ingeniería de Software durante sus primeras etapas de aprendizaje sobre tópicos de algoritmia y programación.

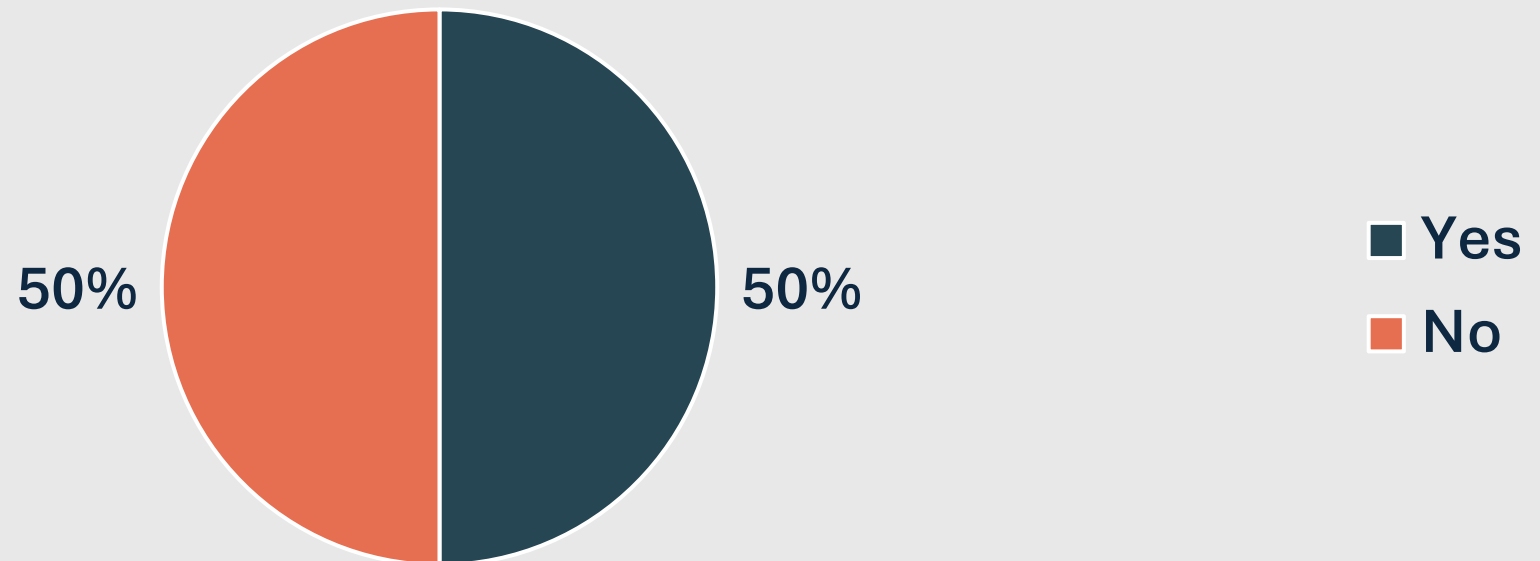
La encuesta comprende 9 preguntas (como máximo).

¿En qué semestre equivalente de la carrera te encuentras actualmente? \*

- ☐ 1er - 3er semestre
- ☐ 4to - 5to semestre
- ☐ 6to - 7mo semestre
- ☐ 8vo - 9no semestre

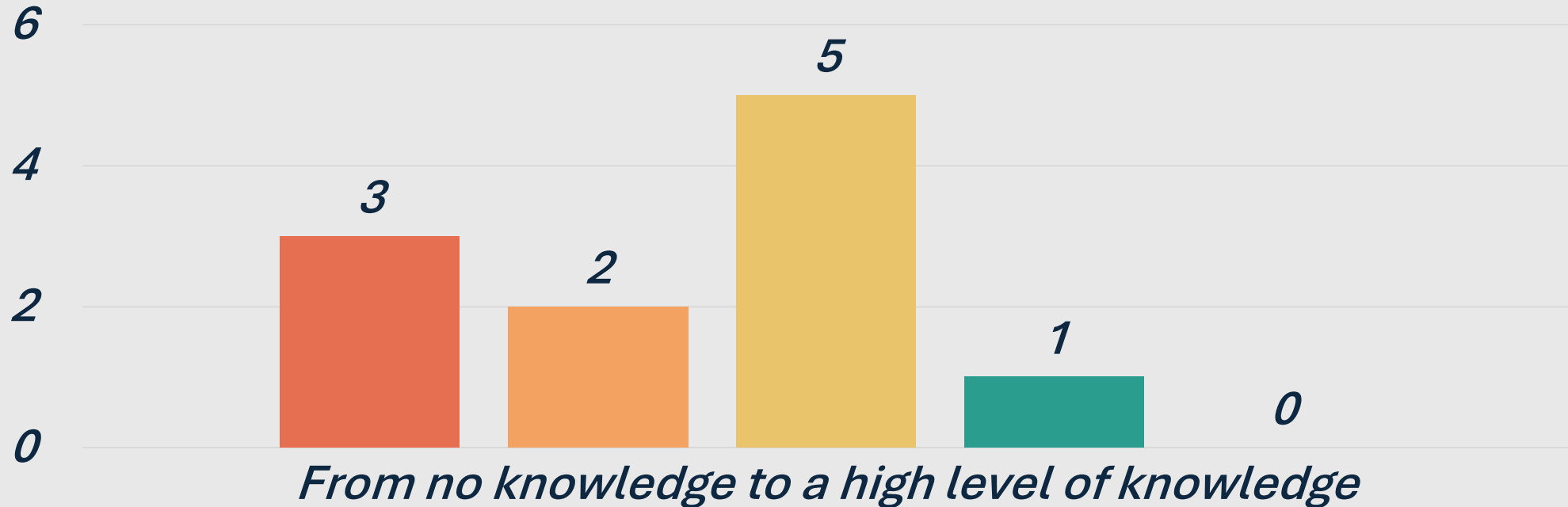
# *Survey Results*

*Did you have any exposure to algorithmics or programming topics before starting your degree?  
(22 responses)*

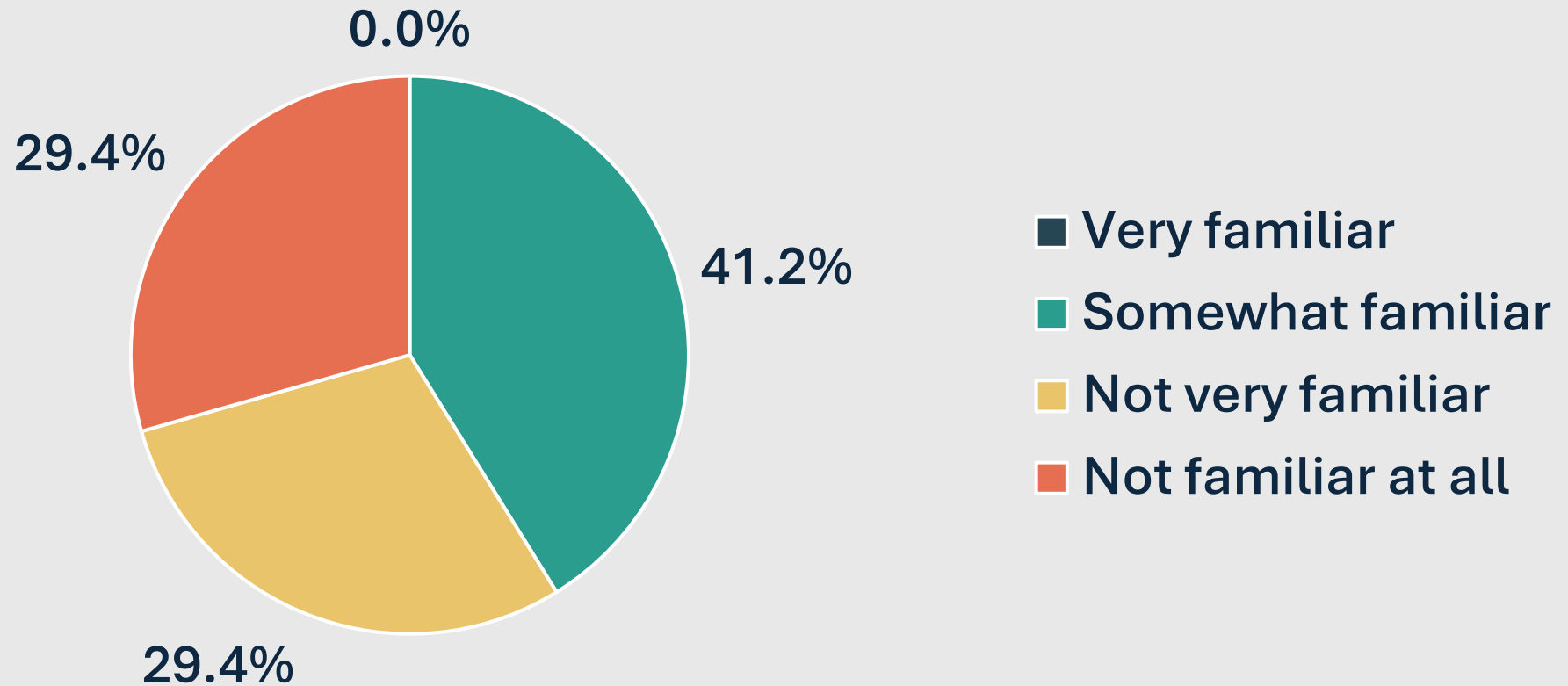




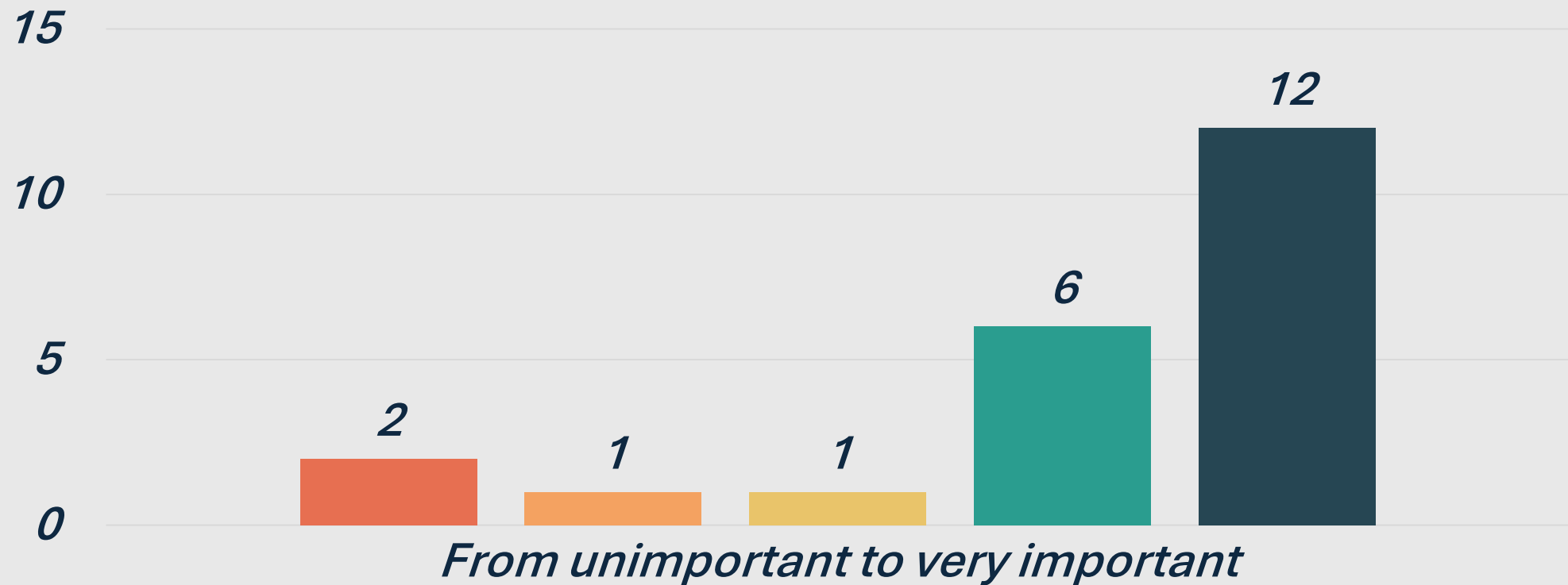
*How would you rate your level of knowledge in algorithmics and programming topics before starting your degree? (11 responses)*



*How familiar are you with Visual Studio Code extensions? (17 responses)*



*How important is it for you to receive feedback on your programming code? (22 responses)*



# *Student Personas Profile*



Jose is a first semester Software Engineering student.

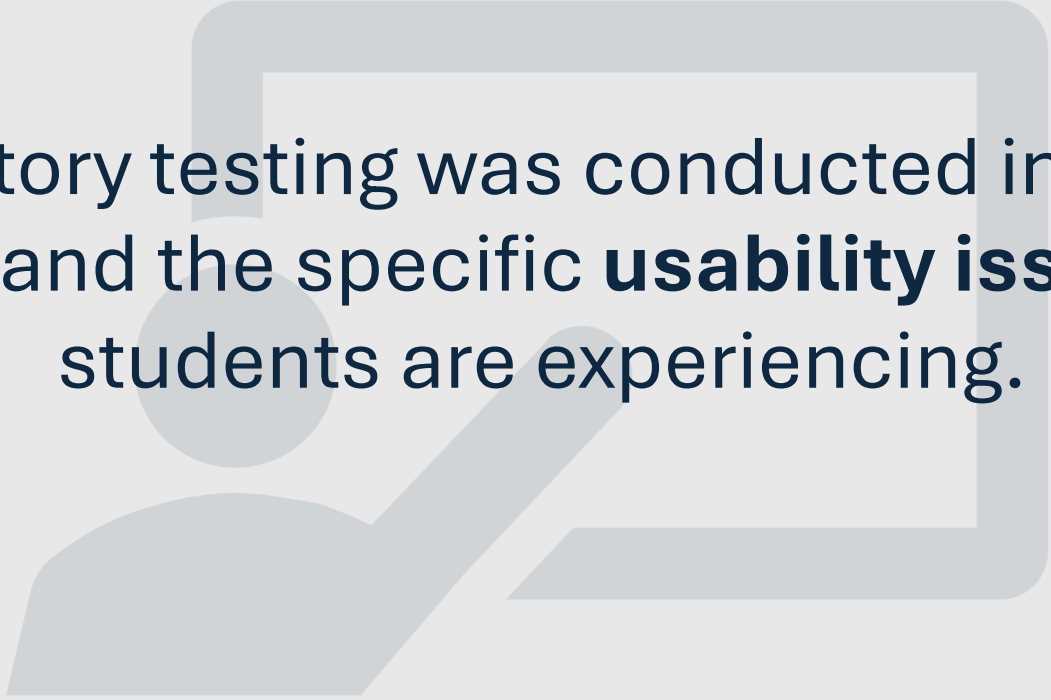
He is extremely excited about expanding his knowledge and forming a professional career in software engineering, but he has a small concern: **he has never experienced what exactly “software engineering”, “algorithm development” or even “programming” is.**

## Key Characteristic:

He had never programmed a single line of code before his university entrance

# *Exploratory Tests*

Exploratory testing was conducted in order to understand the specific **usability issues** that students are experiencing.



# *Exploratory Tests Results*

- Difficulty in finding Test-Runner results on GitHub  
(**Interface Simplicity, System feedback**)
- Complication in following the instructions for use  
(**Usability, Understandability**)