Reproducible test scenarios about the Statistical Module in Neptun

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# Introduction

The testing project about the statistical module in Neptun has already produced a lot of controversial documents: <https://miau.my-x.hu/miau/320/moodle_neptun_tests/?C=M;O=D>

A képen szöveg, elektronika, képernyőkép, Betűtípus látható

Előfordulhat, hogy a mesterséges intelligencia által létrehozott tartalom helytelen.

+ <https://miau.my-x.hu/miau/319/itsec_index_for_home_workers.docx>

Unfortunately, the conclusion is trivial: the desire for concreteness is very weak, quasi still zero. Test scenarios are processes where very-very concrete-defined steps can be executed and all these steps can be repeated in an unlimited way! Each other approach is just an empty bubble. One empty-bubble-system is always useful: the first one! This frame presents a lot of challenges (see needed examples/annexes: <https://miau.my-x.hu/miau/320/moodle_neptun_tests/Case%20Study%20Addendum%20-%20Neptun_pl.docx>

On the other hand, software testing is not identical with the dreaming process about new and newer functionalities!

# New examples with very concrete (reproducible) steps

As we already know, the statistical module in Neptun presented a lot of potential suspicions/risks: <https://miau.my-x.hu/miau/320/moodle_neptun_tests/Neptun_testing1.pdf>

Starting situation:

* New user (teacher) does log in into the Neptun system…
* The new user does check the statistical module immediately…
* The new user does execute new transactions: 2 new signatures and 2 grades concerning a course with more participants…

The outputs of all Neptun-testing-scenarios are always screenshots (see Figure#1):

A képen szöveg, szám, Betűtípus, sor látható

Előfordulhat, hogy a mesterséges intelligencia által létrehozott tartalom helytelen.

Figure#1: Status after two signature-transactions for course NIK160 (source: Neptun-system)

Each Figure, so the Figure#1 should be analysed immediately: FACTS#...

1. We see a single green check mark in case of a course where no transaction was executed! (c.f. NIN040)
2. We see the status of 2/2 (see NIN040), although no transaction was executed!
3. We see 2 signatures (aláírás=signature): c.f. NIK160: 2/18
4. We see 2 grades (érdemjegy=grade): c.f. NIK160: 2/18
5. All other statistical positions are zero before the “/”-signs.

Interpretations:

1. The already known suspicion about the prepositioned statistical data without any user transaction is given (see FACT#1 and FACT#2).
2. The 2 new signatures and the 2 new grades seems to lead to correct visual effects (c.f. FACT#3 and FACT#4).
3. The further zeros before the sings of “/” are also correct (as expected without any transactions concerning the other courses).
4. The user (or even a robot teacher) may derive following operative conclusions
   1. It is not necessary or even not possible to execute transactions in case NIN040 in order to define new signature because 2/2 with a green check mark can only be interpreted in a way that this task is totally done!
   2. NEW testing scenario#1 in case of NIN040 (exam-course for system operation with 2 Students):
      1. It is to check, whether new grades can be defined immediately! (Because: only one position has a NULL-value (see 0/2) and this position should be increased to the value of “2/2”) – see Figure#3
      2. It is to check, whether new signature can not be defined (may not be defined)! (Because the 2/2 status with a green check mark in the column “aláírás=signature” should mean: this position does not need any further transactions) – see Figure#4

A képen szöveg, képernyőkép, szám, Betűtípus látható

Előfordulhat, hogy a mesterséges intelligencia által létrehozott tartalom helytelen.

Figure#2: Before new transactions for the NEW Testing Scenario#1 (source: Neptun-system)

A képen szöveg, szoftver, Multimédiás szoftver, Számítógépes ikon látható

Előfordulhat, hogy a mesterséges intelligencia által létrehozott tartalom helytelen.



Figure#3: Grading is not possible (Source: Neptun-system)

A képen szöveg, szoftver, Weblap, Betűtípus látható

Előfordulhat, hogy a mesterséges intelligencia által létrehozott tartalom helytelen.



Figure#4: Signature is possible (Source: Neptun-system)

# Conclusion

The green check mark can not be interpreted in a trivial way: the signature is needed although the green check mark is given!