



ZAVOD ANTONA MARTINA SLOMŠKA

ALTII

O1.A1.5 - User Interface Verification Worksop

Friday, May 7, 2021. from 10 a.m. to 1 p.m.

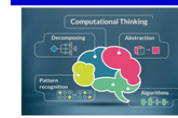
Mirko Đukić, prof.

Experiences with using ARS in my classroom

- I use elements of ARS (Audience response systems) in my classroom when:
 - When i want **instant response** from all students during presentation / lecture:
 - I don't have much frontal lectures – so I use simple, integratable solutions.
 - In Teams I use Forms - only multiple choice question type; simple and instant
 - Other types are possible only as questions on forms.office.com – posted as link in Teams
 - In Teams I used Polly – more question types (nice and easy; integrated in teams; restricted due to licensing):
 - Multiple Choice,
 - Open ended (Text, Date, Time)
 - Rating (Agree/Disagree; 1 .. 5; Emoji ...) Rating type is only diferent way of representation mutple choice question. It's maybe easier.
 - in LMS Moodle
 - I use activity module Questionnaire
 - Various question types – fast, but not so fast; simple, integrated in moodle, which is our core teaching system, mainly used when not in virtual conference
 - Forum – sometimes with ratings ...
 - When I want students to be active (most of my teaching time ...)
 - Short activites / tasks (if possible in real time)
 - Teams – (Group) (shared) (**realtime**) document editing (ppt and doc) – usefull, creative, productive, instant ...
 - LMS moodle – Assignment (**not in real time**); quiz (very good, but complicated and not fast)

Usage scenario and its key elements

- Informatics
- Topic: computational thinking – basic concept: looping and iteration
 - Game based learning and Problem based learning (in Minecraft)
- students: 1st year (16 year old)
- ARS – Forms integrated in Teams
 - Easy and instant response
- LMS Moodle
 - activity module Questionnaire
 - Quiz



Računalniško mišljenje in reševanje problemov

V tem poglavju se bomo učili računalniškega mišljenja in reševanja problemov.

Načrtovanje - učitelj

Skrito za udeležence

Projektna dokumentacija - računalniško mišljenje - Mirko Đukić

Skrito za udeležence

Minecraft - Hour of Code (uvodna aktivnost)

Nameni učenja

Uvodni vprašalnik (kaj naj bi na koncu znal in v kolikšni meri morda že znam)

Minecraft - uporabniški vmesnik, uporaba gradnikov in elementov

Minecraft - koncept zaporedja izvajanja ukazov in koncept zanke

Minecraft - koncept vejitve (pogojni stavek - stavek IF)

Minecraft - koncept spremenljivke

Kratka refleksija dela/učenja po učni uri

01:32:51

Zahtevaj nadzor

Position: 656, 72, -357
Agent Post: 654, 66, -356

Code Builder

```
on chat command "hodi"
do
  while false
  if agent detect block forward then
    agent move forward by 1
  else
    if agent detect block forward then
    
```

Klepet v srečanju

Vprašanje - Kateri gradnik ne spada med zanke?

- While
- For
- If
- Repeat

Oddajte glas

Urgena

While	0% (0)
For	10% (1)
If	90% (9)
Repeat	0% (0)

Št. odgovorov: 10

Forms 08:37 Urgena

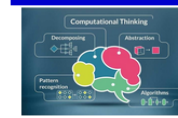
Vnesite novo sporočilo

+8 GB PM TK LE KB NK

Timotej Koren, Luka Emeršič, Katarina Breznik, Nuša Kovacič

Usage scenario and its key elements

- Question type:
 - Multiple Choice (Forms)
 - Open ended (Polly)
- How many – during lecture
 - Not much – 2-3 questions (depends on how much it there to talk 😊)
- Goal: to get instant response
 - if students are present and active
 - If students understand content



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Kratka refleksija dela/učenja po učni uri

The screenshot shows a Minecraft game interface with a Code Builder window and a poll window. The Code Builder window displays a script with the following logic:

```
on chat command "/nod1"
while false
do
  if agent detect block "forward" then
    agent move forward by 1
  else
    if agent detect block "forward" then
      [ ]
```

The poll window on the right asks: "Kateri gradnik ne spada med zanke?" (Which block does not belong to loops?). The options are: While, For, If, Repeat. The results show: While 0% (0), For 10% (1), If 90% (9), Repeat 0% (0). The total number of answers is 10.



Mirko Đukić prek bota Polly 08:43

🌟 Open | 🔒 Non-Anonymous

Kaj je v urejevalniku besedil oblikovni slog?

Enter a response

Submit response



Polly 08:43 Urejeno

Jože... 7. 5. 2021

🗨️ Gradnik oziroma funkcija v wordu v kateri definiramo obliko.

Open ended question type

- Integrated in Teams
- Topic – digital literacy;
 - learning MS Word
- ARS is Polly
- Left: results



Polly Results

Sender: Mirko Đukić | 🌟 Open | 🔒 Non-Anonymous

Zakaj uporabljamo pri urejanju besedil oblikovne sloge?

Jože Juhart 7. 5. 2021 9:07

🗨️ Gradnik oziroma funkcija v wordu v kateri definiramo obliko.

Erin Vauda 7. 5. 2021 8:42

🗨️ Da je besedilo urejeno in pregledno.

Nina Mohorič 7. 5. 2021 8:34

🗨️ Da je besedilo bolj estetsko.

Nuša Kovačič 7. 5. 2021 8:33

🗨️ Zato, da je besedilo bolj pregledno in razvidno.

Patrick Žmavc 7. 5. 2021 8:30

🗨️ Da je urejeno besedilo bolj estetsko in pregledno.

Timotej Koren 7. 5. 2021 8:29

🗨️ Za lažje prepoznavanje naslovov, ...

Luka Emeršič 7. 5. 2021 8:28

🗨️ da lažje prepoznavamo naslove podnaslove itd

- Informatics
- Topic: learning functions in Excel
 - Demonstration and ...
- students: 1st year (16 year old)
- ARS – Forms integrated in Teams
 - Easy and instant response
- LMS Moodle
 - activity module Questionnaire
 - activity module Quiz
 - activity module Assignments

The top screenshot shows a Microsoft Excel spreadsheet with a calendar for the month of July. The calendar is displayed in a grid format with columns for days of the week and rows for dates. The dates are color-coded: green for weekdays, orange for weekends, and yellow for public holidays. Below the calendar, there is a section titled "Funkcije" (Functions) with a text box containing the formula `=SUM(C38:C39+C40+C41)` and a result of 52. There are also some yellow and green highlighted cells in the spreadsheet.

The bottom screenshot shows a quiz interface in Slovenian. The question is: "Katera funkcija vsebuje napako?" (Which function contains an error?). The options are:

- =SUM(A3:B4)
- =SUM(A3:4)
- =SUM(A3:B4)
- =SUM(A3:B\$4)
- =SUM(A3 B4)
- =SUM(C:4)

 The correct answer is `=SUM(A3:B$4)` with a score of 83% (5/6). The interface also shows a progress bar and a "Končaj poskus" (End attempt) button.

The screenshot shows a Moodle quiz question in Slovenian. The question is: "Na sliki spodaj se nahaja zaslonska slika preglednice. Celice v stolpcu E in rdeče celice s številkami so izračunane s pomočjo funkcij. Bi jih znali napisati?" (In the screenshot below, there is a screenshot of a spreadsheet. Cells in column E and red cells with numbers are calculated using functions. Do you know how to write them?).

The spreadsheet data is as follows:

	A	B	C	D	E	F
1						
2		Košarica z artikli	Količina	Cena enega artikla	Cena	
3		Zmajске očke	2	6,40 €	12,80 €	
4		Kuhani parkeljci	3	2,40 €	7,20 €	
5		Dišeči kackci	2	4,10 €	8,20 €	
6		Zmešana juhica	5	2,00 €	10,00 €	
7				Cena Skupaj:	38,20 €	
8						
9		Število vseh artiklov:	12			
10		Število različnih artiklov:	4			
11		Povprečna cena enega artikla:	3,73 €			
12						

The question asks for the formulas used in the red cells (E2, E3, E4, E5, E6, E9, E10, E11). The answer field is empty.

Below the question, there is a second identical question and spreadsheet image.

Try out of the AudIT mockup version

- mockup version is available at <http://161.53.64.78/>
- the supported activities include
 - **submitting** textual messages or votes by the audience and
 - **displaying** them on the lecturer's interface.
 - **Download/redirect/email** textual answer (comparison/wordcloud functions are not yet implemented).
- Is it intuitive?
 - At first you can see a lot of buttons in a „room page“. But fast you can find them easy to understand and use. Everything is one click away and very straight forward.
 - Students page „room“ could have a „join another room“ button. I could not find it.
- Can you find specific functions?
 - I think I found them all. I did not find downloaded file with answers when I press „Download“ button.
- Can you submit votes/text as a student?
 - Yes;
 - **As student; how can I change room if there is a new room to attend.**
- Can you see them on the lecturer's interface?
 - I like Vote options – where you can present only first or last vote. So possible repeated answering from is easily prevented.
 - I find interesting that there is really one type of question interface ... Student type answer in textbox or press a button.
- Prepare to discuss
 - **Interesting is the idea of Not writing question, and answers ...**
 - Simplicity
 - Simple interface need very few buttons
 - More content is easily distractive to users ...

My ideas of observations

- Student can only see partial past texts they sent ... If texts are longer and has content with meaning, it would be useful to see whole texts (maybe for possible later conversation with lecturer) ...
- Students - Separator with sign OR between buttons and text box
- For next time
- What icon should be on first page for lecturer and audience
- **Classroom** – to avoid only room and implicate it to be for learning