

# UA Measurement WG Meeting

30 June 2022

## Attendees

Nabil Benamar  
Jim DeLaHunt  
Sarmad Hussain  
Seda Akbulut

## Meeting Agenda:

1. Welcome and Roll Call
2. What to take up next from FY22/FY23 Planning? Starting a new SOW. Some options are:
  - a. Develop a UA curriculum for Academia
  - b. Gap analysis of
    1. E-Commerce Platforms
    2. Content Management Systems - Phase – 2
  - c. Characterize how much Android platform limits acceptance of IDNs in web browsing
  - d. Analyze impact of the use of HTML5 email field
3. AOB

## Meeting Notes

### Develop UA Curriculum Academia

Nabil explained the agenda item of developing UA curriculum for Academia. We have seen some references to IEEE and ACM in the FY23 Planning. But there are various organizations, other platforms, such as Coursera. He asked everyone's input on defining a roadmap for curriculum development.

Sarmad appreciated the idea of curriculum development as it will bring sustainability in UA adoption. Then he defined a roadmap for curriculum work.

There are 2 steps in UA curricula process:

- 1) Itemize topics we need to cover
- 2) Develop the content
- 3) To teach that content in the real classroom to mature the content

Sarmad stated that steps 1 and 2 are necessary before starting outreach.

Normally in all course outlines, content is mentioned as a prerequisite before starting teaching. So, developing content is a crucial step. He mentioned that contractors can be hired for both steps or we can define the topics ourselves and the contractor can do the rest. Once the curricula are ready, then outreach is needed.

Nabil also mentioned some background information, such as Unicode, localization, internationalization concept keyboards input methods is also necessary before jumping into the concepts of UA. He mentioned that an outline can be prepared and handed over to the contractor for a detailed curriculum.

Regarding the background concepts, no university currently has such basic concepts in their course outlines. These are not handled by universities. This is not only for programmers and coders. Students are a great audience to make a long-term change.

Jim commented on:

- What is the next step after contacting ACM?
- Unicode Community: One feedback in the Unicode conference was that Internationalization is not well thought of in universities. Connect with Andre Shapo and add UA to I10.
- Another suggestion is to have a curriculum on I10 for non-specialists.
- Apart from academia, having teams in software companies who can train developers about UA and implementing it in their software.

Sarmad shared his experience as a professor of Computer Science regarding doing Curriculum development exercises every couple of years by contacting ACM and IEEE. Such studies from ACM are propagated automatically to many universities. ACM and IEEE have their own journals in which latest studies were presented. Africa Academic Union is another organization which can be contacted as it has a lot of African region universities part of it. Local Initiatives are in contact with many universities which can be the channel and the next step after developing the curricula, especially in India, China, CIS-EE and Thailand.

Nabil asked how the content material can be handed over to university teachers for better outreach. Sarmad suggested video training to train the lecturers.

Sarmad shared another experience of professor days when he used to teach all these concepts in his class of computational linguistics. He shared that he knows a lot of his colleagues from India and other universities who do the same. There are other areas in which UA can be integrated into other courses for the first 2 years of the main programs.

Nabil pointed out to a wider audience, through online free training, namely Coursera and Udemy. ISOC has a learning platform in which UA is missing. The courses can be free. Professors from the universities can be invited to these courses and they can train the students as well. Cisco Academy, and LinkedIn learning are also a part of it.

Jim added that we want to have both “Direct Training” and “Train the Trainer” programs. Nabil appreciated the idea and shared his experience of ipv6 training.

Sarmad suggested that we need to test the content in a real classroom before we start video recording. Training material can be handed over to some of the universities to add in their courses and share feedback with us. Small pieces of different courses can be recorded. These courses can be in small modules.

Sarmad also mentioned that the course outline would be defined by the university. There is a flexibility for the professor to shorten the curricula. We can easily integrate Unicode flavor in addition to ASCII flavor. In the beginning of each year students have a syllabus.

Sarmad suggested engaging with a professor currently teaching computer science to get what would be the initial thought. Then we do the research and work on this. Nabil also shared the same thought.

Jim shared his understanding of changing the course outline. He stated that we need to decide to what extent curriculum will be changed and to what extent change is needed.

Nabil and Sarmad agreed on making an SOW for the contents of the training material. Jim suggested to include André Schappo <andre.schappo@mac.com> in the discussion who has already subscribed to UA-discuss and is currently teaching i18n content at a University. Sarmad suggested to invite a few

professors to the conversation. Jim suggested that he can post a call for collaboration on Unicode mailing lists, if someone writes the details.

Sarmad shared that he and Seda will start working on creating an SOW for this. He shared that people from different domains will be part of it to have diversity.

### **Channels:**

ACM

IEE

Coursera

Udemy

ISOC

Cisco Academy

LinkedIn Learning

Other online course platforms

UA Local Initiatives

Africa Academic Union

Unicode Community

### **Topics:**

Direct Training

Train the Trainer

L8n

I10n

Unicode

Adding UTF8 instead of just ASCII

### **Android Platform Limits of Acceptance**

Jim showed interest in Android and HTML5 topics. Jim stated that hanging gears to a different Measurement. Jim shared the example of Chrome staying on an old specification which is resulting in many libraries not updating to IDNA2008. So, it needs to be measured how much impact it will have on UA.

Sarmad raised a question of “Why is Chrome doing what they are doing?” pointing out to the root cause. He asked whether the source of this is Chrome or something else. And asked how to switch from IDNA2003 to IDNA2008. Sarmad shared the Unicode Technical Standard #46:

<https://unicode.org/reports/tr46/#:~:text=The%20UTS%20%2346%20mapping%20is,punctuation%20during%20the%20transitional%20period>

Jim stated that we need to figure out how big a problem it is and how to solve it.

Nabil mentioned that we need to separate the Chrome issue from the Android issue, and see how it works with the Samsung browser. He asked if there are tests available to check if this is concerning only the Android. Jim said that it's a good question. He suggested putting pressure on Google to update spec. Nabil shared that he needs to check if the problem is related to the operating system itself or to one of the implementations of a given software. Jim appreciated this idea but stated that it will not help us measure the scope of the problem on Android.

Sarmad suggested reviewing Google Chrome's IDN policy and then connecting with Chrome if needed.

<https://chromium.googlesource.com/chromium/src/+/main/docs/idn.md>

Jim asked which working group can review this. He felt like the document was technical. Sarmad shared that there are many people who can contribute to this task. This could be reviewed also by Tech WG in addition to Measurement WG. We should study this as well as UTS46 and UTS39. Sarmad stated that he can also investigate it himself as well.

Jim shared that the efforts should be focused on measuring the impact if Chrome does not update instead of figuring out the compatibility issue of Chrome. Similar is the case for item "d" related to HTML.

**Next meeting:** Thursday 14 July 2022 UTC 1600-1700

### Action items

No.	Action Item	Owner
1	Draft an initial <a href="#">SOW for UA curricula</a>	Sarmad / Seda
2	Reviewing the document until the next meeting <a href="https://chromium.googlesource.com/chromium/src/+/main/docs/idn.md">https://chromium.googlesource.com/chromium/src/+/main/docs/idn.md</a>	Measurement WG