

# Understanding the Characteristics of UX Malaysia UXD Community of Practice (Cop): A Participants' Observation

<sup>1</sup>Azham Hussain, <sup>1</sup>Idyawati Hussein, <sup>2</sup>Murni Mahmud, <sup>3</sup>Emmanuel O.C. Mkpojiogu

<sup>1</sup>School of Computing, Universiti Utara Malaysia, 06010 UUM, Sintok, Malaysia

<sup>2</sup>Kulliyyah Of Information and Communication Technology, International Islamic University Malaysia,

Kuala Lumpur, Malaysia

<sup>3</sup>Department of Computer and Information Technology, Veritas University, Abuja, Nigeria Corresponding author: azham.h@uum.edu.my

Article Info Volume 81 Page Number: 3157- 3171 Publication Issue: November-December 2019

Article History Article Received: 5 March 2019 Revised: 18 May 2019 Accepted: 24 September 2019 Publication: 14 December 2019

#### Abstract:

This study reports on the research involving the use of a participant observation approach to understand the characteristics of UX Malaysia, a community of practice for user experience design (UXD). This qualitative approach provides insight into the behaviour, characteristics and attitude of the members of the community of practice which they may not express when other research approaches are used. The results reveal deep insight about the characteristics of the observed community of practice.

*Keywords:* Community of practice, participant observation, user experience design

## I. INTRODUCTION

Notably, the term "user experience design (UXD)" in this study has been coined to label the process of achieving hedonic experience that goes beyond pragmatic usability (Hassenzahl et al., 2008; Unger & Chandler, 2009; Hobbs et al., 2010). As a comparison, traditional user centred design (UCD) has focused more on the cognitive aspects which underestimate the influence of emotions in design (Spillers, 2004; Khalid, 2006; Benyon 2010). UXD applies UCD techniques and interactive design methods in the development process with the inclusion of hedonic portions and emotion in design process (Boersma, 2004; Davis, 2011, 2012). Considering the various definitions available and the relevance to this study, the researchers chose to focus on the people who produce systems, products or services with the intention of achieving both usability and user experience (Bevan, 2009; ISO 9241-210, 2010; Davis, 2012). The labels of professionals whose work focus was on fitness-for-purpose during the ergonomics age have duly changed in line with technology waves as well as HCI directions (Karat & Karat, 2003; Bark et al., 2006; Isbister&Höök. 2009: Kolko. 2011: Norman, 2010b; Putnam & Kolko, 2012).



The definition of experience varies in history and meaning (Jay, 2005; Hassenzahl et al., 2013). However, there are two world views that positioned experience from a designer's perspective: one is related to the phenomenological/pragmatist view while the other was inspired by experimental psychology (Law al., 2007). et Phenomenological or pragmatist experience is related to a formation of attitude in desires and purpose (Kolb, 1984). Experience is "felt" and strongly emphasised in the situation and uniqueness of the experience itself (McCarthy & Wright, 2004). Any experience that does not impact on expectation would not be categorised as an experience (Kolb, 1984). On the other hand, experimental psychology segments experience into single components such as motivation, trust, hedonics and fun (Law et al., 2007). This is in response to the development of IT and digital media mobile media, social media, ubiquitous pervasive computing and computing: meaning that HCI is shifting from the information world to the experience world (Jensen, 2013).

Alben (1996) defined experience as "the way (a product) feels in their hands, how well they understand how it works, how they feel about it while they're using it, how well it serves its purpose, and how well it fits into the entire context in which they are using it". Forlizzi and Ford (2000) categorised experience in three ways: experience as a whole, an experience and experience as a story. Experience happens during consciousness and is shown by selftalk or self-narration of a person when

passing this stage. An experience is an episode, a chunk of time that one went through with sights and sounds, feelings and thought, motives and actions (Hassenzahl et al., 2013). This type of experience has a beginning and an end, and changes the user or the context of the experience as a result (Forlizzi& Ford, 2000). Experience as a story is stored in memory, labelled and relived, communicated to others, and sometimes emerges from the dialogue of a person with their world through action (Hassenzahl et al., 2010). McCarthy and Wright (2004) identified four threads of compositional; experience: (1)(2)emotional; (3) spatio-temporal and (4) sensual. Composition refers to the narrative structure, action possibility, plausibility, consequences and explanations of actions. Emotional refers to the value judgments which relate to the user's needs and desires (McCarthy & Wright, 2004); it tends to be in the mind. Spatio-temporal kept experience draws attention to the quality of place and time on a user's affection and willingness to repeat such experience. Sensual experience relies on the visceral character of experience such as the look and feel of a mobile phone. Ultimately, experience design is an approach that focuses on the design of a pleasurable and meaningful moment which is embedded into and mediated through material such as products (Hassenzahl et al., 2013). The central focus of experience design is to achieve a user's happiness and wellbeing (Sääksjärvi&Hellén, 2013) (see Hussain et al., 2016; 2017a; 2017b; 2017d; 2018).



This study employed participant observation as an approach to capture the characteristics of a user experience design (UXD) community of practice. Observation of a group of people is implied if the selected group can be categorised as a community of practice based on their behavior during their meetings. Observation is qualitative approach used in getting insight into a group's salient behavior and characteristics. Observation can be both passive and active. In a passive observation, the researcher participates in the activities of a group without controlling the members of However, the group. in an active observation, the researcher asks questions and controls the flow of information. The community of practice (CoP) plays a vital role as a platform for learning and improving a practice. It is seen as important to the development process leading to the formation of disciplines, even though the community members are not explicitly teachers by nature (Hobbs et al., 2010). Data from the observation gathered are interpreted and given a meaningful construction. The theory of constructivism argues that humans generate knowledge and meaning through their experience in the world. The central concern of constructivism is to know how humans create knowledge and how they learn. Software development is an intellectual task, subject to the effects of cognitive and motivational processes.

#### II. METHODOLOGY

Observation can be in two forms: first, passive observation where the researcher participates in the activities without controlling the members; and

## November-December 2019 ISSN: 0193-4120 Page No. 3157- 3171

second. active observation where the researcher asks questions and controls the flow of information. The second method can also be considered as a focus group session as the researchers lead the discussion. In this study, the passive types of observation was used to study the members of UX Malaysia to understand them in terms of their needs, goals and why they attended the gathering (motivation). Their levels of knowledge in user experience, and skills in other relevant domains, were identified. Attitudes, language and behaviour of the members were observed, written up in notes and recorded on video.In this way, explicit characteristics of practice were identified through the language used and the issues raised by the participants. Attitudes were analysed through discussions of scenarios. All other utterances were included during the observation to identify agreement and disagreement of the participants on issues being discussed.

Table 1: Observation	method used
----------------------	-------------

Observatio ns Date	Objectives	Number of	Data Collectio
		Participan	n
		ts	Techniq
			ue
10 October	1. To	19	Video-
2012	identify the		recorded
	characteristi		and
	cs of UX		transcrib
	Malaysia		ed on
	attendees		paper.
	2. То		
	understand		
	why the		
	participants		
	attended		
	UX		
	Malaysia		



It can be seen from Table 1 that participant observationwas conducted on the 10 October 2012. The aim was to complement the findings from an earlier netnography approach (Hussainet al., 2019c), that the online community has similar concerns and problems relating to practising UX. The objective was to investigate whether UX Malaysia represents the characteristics of the community of practice.Participants' observations were video recorded and stored on a hard disk for future retrieval for reference. In order to transcribe the observations, the researchers watched and listened to the recorded video more than twice to obtain the main ideas of each participant in every session. These observations were performed during the UX Malaysia meetings. In the controlled session, the researcher was able to assess and listen to the participants. The participant observations focused on the interaction between the moderator and the participants and among the participants. To further investigate various aspects of the on-going interaction, a reflective dialogue between the observers and participants was performed. The observation notes and reflective dialogues were video recorded and a verbatim transcription made. The session of observation was manually transcribed by the researchers.

The data from observing participants was coded by social meanings: intentions, motives, beliefs, rules and values (Hammersley & Atkinson, 1995). To maintain the reliability of the results, the researchers acted as functioning members whom the group members recognised as

those conducting research. This was done by the announcing the researchers' presence in the group and requesting permission from the other members to conduct research. During the observation, the researchers requested permission to use the video recording of their activities during each meeting as a study sample. In order to maintain the natural setting, the researchers participated in all discussions and activities.In Table 2, P1\_OBS1 represents the observation session for participant 1.

Table 2: Labels for data analysis matrices

Method of	Meaning	Explanation
Data		
Collection		
Observations	OBS1:	Data collected via
	Observation	observation on 10
	1	October 2012
	OBS2:	Data collected via
	Observation	observation on 14
	2	November 2012
		P1_OBS1 =
		Participant 1 for
		Observation 1
		P1_OBS2= Participant
		1 for observation 2

#### III. RESULTS

The aim of participant observations was to identify if UX Malaysia can be categorised as a community of practice (CoP) according to their goals, meeting intentions, background profession and perhaps level of UX knowledge. For this purpose, the researchers had requested permission from the organisers to record the meetings. Meetings were casual rather than formal gatherings, and attendees were practitioners in their own domains. The



meetings were video recorded and field notes were taken to complement points missed during recording. Two types of data performed analysis were on the observations. First, the recorded video was reviewed over three times to gain an overall impression, then processed and transcribed. This included informal utterances such "hmm" and "err" in order to assess the participants' agreement and acceptance of the issue raised (Roter&Larson, 2002). This is also known as paralinguistics study in a non-verbal behavior (Yammiyavar et al., 2008). Observations were conducted on different occasions, the meetings takes place on the second Wednesday of each month. This observation was passive, where the researchers did not ask questions ..

# **Observation 1: Investigating the Domain Interest**

The first observation was conducted on 10 October 2012 during a - session from 7pm to 10pm. The venue was Mindvalley office, Bangsar, Kuala Lumpur, the 26<sup>th</sup> floor of a commercial building comprising different offices on different floors. The organiser of the event was approached and briefly told what the study was about. After a verbal agreement, the participants were also told about the study and permission gained to video record the session. There were 19 participants at the start, although one left after the introduction because he thought he was in the wrong meeting. 18 participants were recorded and included for data analysis.

**Demographics of Participants:** Three participants had been involved in the previous netnography study (Hussain et al., 2019c), identified by their name and Facebook account in the UX Malaysia Group. 22% of the participants (4 out of 18) were female and 78% (15) male.



Figure 1: UX job title by participant during the first observation

Figure 1 shows the frequency of participants with a UX job title. Six had the job title UX Designer. One participant claimed her job title had evolved from 2D Designer, to Web Designer, then UX Designer. Another claimed to be hired by profession or job label and another was a 'junior' UX Designer. One UX Designer was a freelancer and another was the founder of UX Malaysia working with the CodeArmy Company. It can be inferred that the profession was very new, and even if the people were recruited by the job label, they were not necessarily experienced designers.



Only one UX Designer had been working for about 5 years and could be considered as experienced, but she is based in Hong Kong, not Malaysia, so her company cannot be included in the number of Malaysian companies employing UX Designers at that time. One female participant was a freelance UI/UX Mobile Designer and the other was a university UX Researcher. Three male participants worked as UX Designers. There were three startup owners. Two participants mentioned their job title as "Designer": one, whose background education was Digital Media, started his career as a Flash Designer, then became a Motion Grapher; the second had a background in advertising

and claimed to have strength in branding and art direction. One participant identified himself as a Front-End Developer his job having evolved from back-end to front-end developer but still heavily focused on coding development. The remaining six participants were a Google Developer who claimed to be a UI/UX Android Designer; a Senior Frontend Executive; a Researcher; a Chief Problem Solver; a 3D Architect; and Unemployed. The 3D Architect Designer had come to see what UX was all about, as he was exploring new fields; He had learnt about the meeting from friends' invitation to join.



Figure 2: Educational background of some of the participants

Five people were working in the same company, and four in another. Educational background was not investigated, although when they introduced themselves, some participants mentioned it.Figure 2 shows these: two participants each had a background in Multimedia, Computer Science, and Advertising and Digital Marketing, while three other individuals came from Arts and Design, Industrial Design and Architecture.

**Characteristics** CoP: of The practice of UX can be assessed by identifying the action and motivation categories of passion or practice, by knowledge but not practice, by passion but not practice, or by knowledge as in Table 3. In Table 3 the excerpts were coded using first cycle coding and second cycle coding (Saldana, 2012). In Table 3. most participants were passionate about how to include end-user feedback in the development process. This could be seen



from the words they used to describe why they participated in UX Malaysia meetings, and what they were doing in relation to UX practice. However, the participants lacked the knowledge to define UX, just as the discipline itself is known to have an ambiguous definition. There may be some guidance in the order of importance of needs to be fulfilled outlined in Maslow's (1968) hierarchical model.

# Table 3: Coding examples for UX practice assessment

Excerpt	First Cycle	Second
•	Coding	Cycle
	C	Coding
Enthusiast in Android	Enthusiast	UX
UI/UX	Like	practitioners
I like UX	Interesting	are
It's quite interesting	Learn	passionate,
"trying to learn every	every day	interested
day"	Interesting	and
"I came to understand		motivated
about UX and it's quite	Helping	to learn and
interesting so far"	Towards	help end
My personal agenda is		users
to help and have a		towards
community to support		better user
all start ups coming up		experience
with proper usability		
and proper UX		
Doing towards UX and		
mobile		
Not much to do with	Lack of UX	Constraints
UX, Product Start-up	knowledge	in limited
It's hard to find	Hard to	knowledge,
someone who knows	find	skillset and
about UX	Gave up,	clients'
I almost gave up on	dealing	attitude.
UI/UX because dealing	with clients	
with clients is just	is crazy	
crazy		
We have lots of	Potential of	Share the
companies doing	UX	resources

aaffuuana wah		omong CoD
software, web		among CoP
development where UX	Hope for	and
would be a vital role	UX	improve
At least there is a hope		current
that we are advancing	Boss sees	practice by
to the global standard	benefits of	helping
The boss say it's going	UX	each other.
to be a lot of UX in	Helping	
future	create	
Malaysia's the hub of	awareness,	
UX in ASEAN	support and	
"to have a community	establishing	
of UX practitioners that	UX	
would help create		
awareness, support and		
establish UX in		
Malaysia"		

А startup is "temporary а organisation designed to discover a business model that begins with no process, no culture and no repeatable business model (Davila et al., 2010). Two of the three startup owners identified themselves as non-UXD practitioners. "I am not a UX person at all. I never graduated. Partly because my main core is that I ran two startups. One is more towards the social end, where I can do digital marketing and the other is more towards this area of UX, mobile and things like that. So, I am here just to find out how hard is it to find someone who knows UX" (P15\_OBS1). This last excerpt implies one of the characteristics possessed by members of a community of practice: finding anyone of similar interest. Running a startup takes time and requires experience in the field. This startup owner mentioned that he was not new to the marketing and digital industries and had foreseen the trend towards mobile technologies. He said that it was nearly impossible to find people who practised UX in the local context. The



second had high-profile job experience at IDEO but confessed to not being enough of a UX person. He had initiated webcamp (Webcamp KL Community) in collaboration with Singapore and many other countries, besides conducting training and mentoring for website designers. He explained that his experience with UX began when he worked as a user researcher at IDEO: "I am not a UX designer though I did finish art school in London. My start with UX began since I was a user researcher at IDEO. So that's how I got into UX" (P14 OBS1). 26% of the participants (5 out of 18) admitted that they were not UX people. However, according to their background profiles, all of them believed in UX and supported it by providing resources for other people to practise UX, such as providing venues, financial support and so on.

Some of the participants claimed that UX is an evolving job title. They had just transformed into the UX label, but basically all were practitioners in their own fields. For example, one participant identified himself as having worked in IT since 1999 in the UK. Another had worked in Astro (a mediabased company in Malaysia) for seven years become before deciding to a UX practitioner, while yet another had just begun to learn about UX even though his job was in branding direction and art. There was also one participant who had been working as UX Designer in different countries: "I've been in UX for about 5 years. I used to work with [x] but now I am working as a user experience researcher in JobsDB, Hong Kong. If you are in UX, you'll probably see my post asking people for interviews. That's

one of my focuses. Last year, I was doing research on Malaysians; how jobseekers in Malaysia find jobs, their behaviours and things like that. Also, I used to work in Singapore, China and Korea. I lived in Singapore for three years to pursue my master's while working at an agency" (P4\_OBS1). This participant had acquired the job title UX Designer while working in other countries. She had a Master's qualification and her attendance at the meeting demonstrated her passion for UX. She also expressed her belief in UX by promoting it to other members, one of whom commented: "I am actually an architect in 3D. UX is nothing to do with it. I just came because she invited me to see ... you know ... sort of to expose myself to other industries as well. So, you know, I heard it's quite interesting to see what this is about" (P4\_OB1). Some participants were novices in UX but an expert in their own domain and profession; for example, the following excerpt comes from a developer who was

involved in the design and development process; "I went through most of the spectrum of development from designing, graphic design to back-end programming, registration and front-end system development. I first thought of UX as a problem when I realised that making an interface efficient for a computer was different from making an interface efficient for a human being to use. This was because when I do back-end programming, trying to apply the efficiencies and optimisation for front-end development was actually very different and now we have to consider a lot of things and picture a lot of questions,



intentions, hidden agendas, and the user using your applications. That's how it is" (P18\_OBS1).

This participant was an experienced back-end developer who had just become a front-end developer. He found that the tasks and job responsibilities between developer and designer were different, emphasising that design and development for machines and for human beings is not the same. Hence, further exploration should be done to differentiate between designing for machines (programming) and for humans (user interface), and the line between backend and front-end developer drawn clearly. During the introductory session, many participants repeatedly stressed how they could offer help in their specialised areas to other participant attendees. The following excerpt illustrates the attitudes of a participant of the community of practice who was willing to share experiences, knowledge and ways of addressing problems in the UX domain: "I actually founded AndroidUIUX.com. So. enthusiasts in Android and anything design, anything with android design could come to me" (P1\_OB1). The mission in terms of CoP values was clearly presented by the moderator during the closing session. On a personal note, the moderator said: "Part of my personal agenda is to have a community and to support all up-and-coming startups in proper usability and proper user experience" (P10 OBS1). Some of the UX Designers were newly recruited to the profession and liked their jobs, being very keen to learn about UX.Another participant added, "So far, I like UX so that's why I am here". The

words used to describe why they were at the meeting were mostly related to emotion, implying their attitudes, values and beliefs in UX. "In dealing with mobile web, I almost gave up on UI/UX because dealing with clients is just crazy. They just don't understand that we need to study such thing called user experience I am just so thankful that this was initiated, this is because it shows that there's hope that we are advancing towards a global standard" (P12OB1). This excerpt points to the lack of UX practice in industry settings. In line with the observation on the UX Malaysia Facebook page, the problems persist mainly because of clients who are not necessarily end users.

## **Observation 2: Understanding the Shared Repertoire of Sources**

The second observation took place on 14 November 2012 at Mindvalley, Bangsar, Kuala Lumpur, with 14 people in attendance. The founder had clearly made an effort to invite experienced UX professionals to participate in the event, and live video calls were made with several UX designers who had experience of working for several years in different countries, including the UK and USA. These people were very passionate about UX and were willing to help guide UX Malaysia members. They had initiated plans to come to Malaysia to help organise future events, give talks on UX processes and share their experience as UX practitioners in other countries. The meeting was divided into three sessions, and the first was the



introduction of a new logo, mission, vision and agenda for UX Malaysia.

Passive Observation: This first and second sessions were held in the Hall of Awesomeness at Mindvalley.. The videorecorded data was viewed more than twice understand the speech and was to transcribed verbatim into a word processor. Values coding was applied to reflect the participants' values, attitudes and beliefs, representing their perspectives on UX. Conceptual values, attitudes and beliefs, introduced by phrases such as "We are dead serious about UX Malaysia", "We want to establish", "We want it to happen", were translated into code. The researchers' took inferences into account the participants' professional and personal experiences and reflected on their collective meaning, interaction and interplay.

Table 4: Theme building base	ed on categories
------------------------------	------------------

Excerpt	Code	Categories	Theme
"We are	A passion	Domain of	Groups of
dead	for UX	CoP is UX	profession
serious			als who
about UX"			share a
"We want	А	Characterist	concern or
it to	commitme	ics of	a passion
happen	nt to	community	for UX
we want it	develop a		practice
to	shared		and learn
establishe	repertoire		how to
d. We	of		create
want to	resources		local
establish			awareness
it"			of the
"We			importance
wanna			of UX.
establish			
user			
experience			

	Γ	[	1
in			
Malaysia"			
"We	A way to	Characterist	
created	engage	ics of	
new logo	members	community	
which	to join		
means we	activities		
want to	and help		
open	each other		
perspectiv			
es and			
opening			
mindset to			
get			
everyone			
in			
Malaysia"			
"Compani	Learn how	Characterist	Members
es,	to do it	ics of	are
individual	better	community	practitione
s,		of practice –	rs who
designers		ways of	develop a
they think		addressing	shared
they do		recurring	repertoire
UX but we		problems	of
want to		1	resources
teach them			to share
more in-			experience
depth			, stories
about how			and to
UX			address
works"			recurring
"I am still	Requests	Characterist	problem
look for	for	ics of	-
places to	informatio	community	
do UX	n	to help each	
conference		other	
. Is it			
possible to			
have it			
here?"			
"What	Seeking	Characterist	
you've	experienc	ics of the	
done at	e	domain by	
work,		sharing	
work, what you		-	
done		competence of members	
uone		or members	



outside		
and we		
can have		
like a		
whole		
discussion		
going on"		

Table identifies 4 these characteristics of the CoP for the UX domain. It can be seen that UX Malaysia is categorised as a professional association in which professionals from different organisations seek ways to improve UX knowledge and practice through other people's experience and reflection on practice. These characteristics were identified during the organiser's speech, which was transcribed verbatim. The code was applied to the speech, with categories according to Saldaña (2012). A theme was created to verify the UX Malaysia as a community of practice. The second session was described as a thinking aloud session, and the observation was conducted to identify activities performed by members of the community of practice during the meeting. The following table provides typical examples of what communities of practice look like.

Table 5: Examples of activities identifying
stages of CoP

Activities	Examples	
Problem	"Can you try the apps and share	
solving	your thoughts of the usability issues	
	and advice on how to improve it'	
Discussion	"How to improve current	
development	registration and login experience of	
	this apps"	
Seeking	"Have you experience buying book	
experience	via amazon?'	
Requests for	"Where can I find any framework	
information	for UX?"	

Table 5 lists the activities observed during this session, where some members of the group showed their progress with online apps. The apps were displayed on a large screen provided by the organiser. The moderator asked the participants' opinion on usability issues and on enhancing the apps' experience. Details of the apps are not given in this study to respect the confidentiality requested by the participants.



Figure 3: Field observations for the Thinking Aloud session



Figure 3 shows the sharing session by the community of practice. This session was important for the participants to identify issues related to the design of their products, share their own experience and learn how to solve the problems that occurred. In general terms, the first app was an online bookstore developed for a company based in the Philippines. The participants evaluated the app based on their own experience as both designers and users. The first comment was on functionality and accessibility issues when a person tried to sign up for the app using a mobile phone: "My comment is that when I signed up for the service there was an error on the phone and I needed to refill the form once again. So, I think I wouldn't do that just to fill only what I have filled and whichever I have filled previously. Actually, you can type and you don't have to type the same things all over again" (P18 OBS1). This participant was clearly aware of the user's difficulties in performing the sign-up task. The main problem highlighted in this simple task walkthrough was in error recovery rather than ease of use, and related first to function and only second to usability. The second comment was based on the user's expectations when trying to view and buy a book. The process provided by the app did not support the user's main task, getting a book. For example, to view a book, the user needed to submit an agreement form; if the user decided to get the book, a second pop-up form appeared. However, the user who wanted to quit needed to close both forms to move forward or backward. Further issues raised by the participants were related to the interface, where the pop-up windows had too many words, making them difficult to read. According to the participants, the form should provide a dropdown menu instead of requiring the user to manually fill in the details. A sorting technique was also needed to arrange the books by primary school or secondary school or the level of grades. The participants the also recommended that the developer get the details of the book (e.g. ISBN number) from an established online bookstore such as Amazon, to make it easier and faster than the existing design. In terms of design, the layout was identified as not supporting the user's visceral properties as the mouse was moved vertically instead of intuitively. The password setup did not follow a global setting and was perceived as being against user expectations. There was a lack of feedback when the user filled in the wrong password: The user needs to know how strong their password is and there was no feedback on this. It was just two fields and spaced out.

In summary, the participant who presented the app failed to show the main characteristics of an HCI practitioner or apply design thinking, which is akin to "being in the user's shoes" (Iivari, 2006; Adikari et al., 2013); it seemed as if "developer mindset" (Bak et al., 2008; Clemmensen, 2013) was dominant. The participant strongly rejected the suggestions provided by the other members, giving a reason for every valid comment: Probably, the user actually has to wait until the whole form is complete before getting feedback. On the interface design issues, the size of the form was considered too big on the



screen and the captions were too small. The participants provided a few options to the presenter on how to improve the design. Again, the presenter asked questions such as "What are the benefits of having the list on the next screen?". The researchers did not actively participate in this observation session as the objective was to assess the level of user experience knowledge among the participants. Further excerpts are not included in the paper because of privacy concerns; one of the members on the floor raised the point that the apps were not yet published, and exposure of their identity would compromise the privacy of clients.In conclusion, the attendees were trying to develop a shared repertoire of resources: experiences, stories, tools and ways of addressing recurring problems - in short, a shared practice. For this observation, the assessment of the participants' knowledge was based on knowledge of user experience terminology and awareness of one's own cognition (Krathwohl, 2002).

### **IV. CONCLUSION**

In this participant study, a observation approach used was to understand the characteristics of UX Malaysia, a community of practice for user experience design (UXD). This qualitative approach (passive participant observation) provides insight into the behaviour. characteristics and attitude of the members of the community of practice which they may not express when other research approaches are used. The results reveal deep insight about the characteristics of the observed community of practice. It also confirm the association between existing

knowledge and experience, which empirically support the theory of constructivism that argues that humans generate knowledge and meaning through their experience in the world. The central concern of constructivism is to know how humans create knowledge and how they learn. The findings contributed to the proven pedagogical value of this philosophical theory.

### REFERENCES

- Adikari, S., McDonald, C., & Campbell, J. (2013). Reframed Contexts: Design Thinking for Agile User Experience Design. In A. Marcus (Ed.), *Design, User Experience, and Usability. Design Philosophy, Methods, and Tools*, Vol. 8012, Springer Berlin Heidelberg, 3 - 12.
- [2] Alben, L. (1996). Defining the criteria for effective interaction design. *Interactions May+June*, *1113*.
- [3] Bak, J. O., Nguyen, K., Risgaard, P., & Stage, J. (2008). Obstacles to usability evaluation in practice: a survey of software development organizations. Paper presented at the NordiHCI 2008, Lund, Sweden.
- [4] Bark, I., Følstad, A., & Gulliksen, J. (2006). Use and usefulness of HCI methods: results from an exploratory study among Nordic HCI practitioners *People* and Computers XIX—The Bigger Picture, Springer, 201-217.
- [5] Benyon, D. (2010). *Designing Interactive Systems: A Comprehensive Guide to HCI and Interaction Design* (2nd ed.). Essex, England: Pearson Education Limited.
- [6] Bevan, N. (2009). International Standards for Usability Should be More Widely Used. *Journal of Usability Studies*, 4(3), 106-113.
- Boersma, P. (2004). T-model: Big IA is now UX. Website: http://www.peterboersma.com/blog/ZOO4/ 11/t-model-big-ia-is-now-ux.html
- [8] Clemmensen, T., Hertzum, M., Yang, J., & Chen, Y. (2013). Do Usability



Professionals Think about User Experience in the Same Way as Users and Developers Do? In P. Kotzé, G. Marsden, G. Lindgaard, J. Wesson & M. Winckler (Eds.), *Human-Computer Interaction – INTERACT 2013*, Vol. 8118, Springer Berlin Heidelberg, 461-478.

- [9] Davis, N. (2012). Call yourself a practitioner? Prove it. Retrieved 16 Jan, 2012, from http://uxmatters.com/
- [10] Forlizzi, J., & Ford, S. (2000). The building blocks of experience: an early framework for interaction designers. In *Proceedings of the 3rd conference on Designing interactive systems: processes, practices, methods, and techniques.* ACM.419-423.
- [11] Hammersley, M., & Atkinson, P. (1995). *Ethnography: principles in practice (2nd ed.).* London: Routledge.
- [12] Hassenzahl. М., Schobel. M.. & Trautmann, T. (2008). How Motivational Orientation Influences the Evaluation and Choice of Hedonic and Pragmatic Interactive Products: The Role of Regulatory Focus. Interacting with Computers, 20, 8. doi: 10.1016/j.intcom.2008.05.001
- [13] Hassenzahl, M., Diefenbach, S., & Goritz, A. (2010). Needs, affect, and interactice products-Facets of user experience. *Interacting with Computers*, 22(5), 353-362.
- [14] Hassenzahl, M., Eckoldt, K., Diefenbach, S., Laschke, M., Lenz, E. & Kim, J. (2013). Designing moments of meaning and pleasure: experience design and happiness.
- [15] Hobbs, J., Fenn, T., & Resmini, A. (2010). Maturing a Practice. *Journal of Information Architecture*, 2(1).
- [16] Hussain, A., Abdullah, A., Husni, H., & Mkpojiogu, E.O.C. (2016). Interaction Design Principles for Edutainment Systems: Enhancing the Communication Skills of Children with Autism Spectrum Disorders. *Rev. Tec. Ing. Univ. Zulia.* 39(8), 45-50. doi: 10.21311/001.39.8.06
- [17] Hussain, A., Abd Razak, M.N.F., Mkpojiogu, E.O.C. & Hamdi, M.M.F. (2017). UX evaluation of a video streaming

application with teenage users. Journal of Telecommunication, Electronic & Computer Engineering (JTEC), 9 (2-11), 129-131

- [18] Hussain, A., Isam, M., & Mkpojiogu, E.O.C. (2017). A UX assessment of a mobile recommender app for household electrical energy savings. Journal of Telecommunication, Electronic & Computer Engineering, 9 (2-11)
- [19] Hussain, A., Mkpojiogu, E.O.C., Musa, J., & Mortada, S. (2017). A user experience evaluation of amazon kindle mobile application. Proceedings of the 2<sup>nd</sup> International Conference on Applied Science and Technology (ICAST'17), Kedah, Malaysia. AIP Conference Proceedings 1891 (1), 020060,
- [20] Hussain, A., Mkpojiogu, E.O.C., & Idyawati, H. (2019). Assessing the frustrations of practicing user experience design (uxd) among the uxd community of practice in malaysia: a netnographic approach
- [21] Hussain, A., Mkpojiogu, E.O.C., Musa, J., Mortada, S., & Yue, W.S. (2018). Mobile Experience Evaluation of an e-Reader App. *Journal of Telecommunication, Electronic* & Computer Engineering (JTEC), 10(1-10), 11-15.
- [22] Iivari, N. (2006). Understanding the Work of an HCI Practitioner. Paper presented at the NordiCHI2006, Oslo Norway.
- [23] Isbister, K., & Höök, K. (2009). On being supple: in search of rigor without rigidity in meeting new design and evaluation challenges for HCI practitioners. Paper presented at the Proceedings of the SIGCHI Conference on Human Factors in Computing Systems.
- [24] ISO9241-210. (2010). Ergonomics of human system interaction - Part 210: human-centered design for interactive systems. Switzerland: International Standardisation Organisation.
- [25] Jay, M. (2005). Songs of experience: Modern American and European variations on a universal theme. Los Angeles, CA: University of California Press.



- [26] Jensen, J. F. (2013). IT and experiences: user experience, experience design and user-experience design. In J. Sundbo & F. Sorensen (Eds.), *Handbook on the Experience Economy*: Edward Elgar Publishing
- [27] Karat, J., & Karat, C.-M. (2003). The evolution of user-centered focus in the human-computer interaction field. *IBM Systems Journal*, *42*(4), 532-541.
- [28] Khalid, H. M. (2006). Embracing diversity in user needs for affective design. *Applied Ergonomics*, 37, 409-418. doi: 10.1016/j.apergo.2006.04.005
- [29] Kolb, D. A. (1984). *Experiental learning: Experience as the source of learning and development*. New Jersey: Prentice-Hall, Inc., Englewood Cliffs.
- [30] Kolko, J. (2011). The conflicting rhetoric of design education. *interactions*, 18(4), 88-91. doi: 10.1145/1978822.1978840
- [31] Law, E.L.C., Vermeeren, A.P.O.S., Hassenzahl, M., & Blythe, M. (2007). *Towards a UX manifesto*. Paper presented at the BCS HCI Group Conference, Lancaster University, UK.
- [32] McCarthy, J., & Wright, P. (2004). *Technology as experience*: Cambridge, MA: MIT Press.
- [33] Norman, D. A. (2010). Technology First, Needs Last: The Research-Product Gulf. *Interaction*, 17.
- [34] Putnam, C., & Kolko, B. (2012). HCI professions: differences & definitions. In *CHI'12 Extended Abstracts on Human Factors in Computing Systems* (pp. 2021-2026). ACM.
- [35] Roter, D., & Larson, S. (2002). The Roter interaction analysis system (RIAS): utility and flexibility for analysis of medical interactions. *Patient education and counseling*, 46(4), 243-251.
- [36] Saldaña, J. (2012). *The coding manual for qualitative researchers*: Sage.
- [37] Sääksjärvi, M., & Hellén, K. (2013). How designers and marketers can work together to support consumers' happiness. *International Journal of Design*, 7(3), 33-44.

- [38] Spillers, F. (2004). Emotion as a cognitive artifact and the design implications for products that are perceived as pleasurable. *Experience Dynamics*.
- [39] Unger, R., & Chandler, C. (2009). A project guide to design for user experience designers in the field or in the making. Berkeley, CA: New Riders.
- [40] Yammiyavar, P., Clemmensen, T., & Kumar, J. (2008). Influence of cultural background on non-verbal communication in a usability testing situation. *International Journal of Design*, 2(2), 31-40.