DIRENE 2022 checklist to design content & methods on mobile learning in digital rehabilitation

Design step	Item No	Checklist item	Solution
Context			
Contextual framework for a learning scenario / a course / lecture:	1	What are the topic and the institutional setting of the planned course?	Getting started: Voice assistance in Rehabilitation
	2	How many credits / working hours would the course enclose?	mooc: 2 ECTS, 54 hours
	3	What are the characteristics of the learners (and their future client target group)?	learners: interest in digital rehabilitation, especially voice assistance
	4	What could be the facilitators and barriers concerning this lecture?	facilitator: easy accessible (since mooc & beginner level, possibility to use free version Voiceflow);
			barrier: access to software (Voiceflow account) / hardware (Alexa, Amazon account, Echo);
Learning outcomes, content and their evaluation:	5	What is the initial level of knowledge and skills of the learners / (how) could it be assessed? _(e.g., result of DIRENE research & relevant competency framework: there is a need for specific knowledge, for skills towards problem solving and for the ability to communicate with clients)._	beginner (basic course); no elaborated technical competences, no specific health competences; basic digital competences needed; assessing: use modified "digital competence questionnaire" – student gets individual feedback about competence level
	6a	Which learning outcomes shall your learners achieve?	understanding of DR / use of voice assistance, ability to apply simple voice assistance (see Millers pyramid: knows how)

	6b	How could you assess their achievement?	apply knowledge to prototype (basic dialog), peer review / peer grading from other students
	7a	Which content should therefore be learned?	basics: context, scenarios, examples, apply to own scenario (hands on part), create dialog, good dialog design,
	7b	How would you structure the learning process? *(Would you recommend a self - learning mode or a scheduled instruction in the classroom?)*	various possibilities: totally face-to-face, totally in online presence, hybrid, mixed (face-to-face & online), self-learning mode
	8	How could you create an individualized, engaging, positive and sustainable learning experience?	possibility to publish voice assistance for advanced level & choose their own topic; diversity in materials (text, video)
		Besides reassessment, how would you reflect and evaluate with the learners their satisfaction?	reflection: questionnaire on satisfaction and gained digital competence; self-assessment → increase of knowledge?

Choosing methods & organizing resources

	9	What tools and methods can be used to link the initial level of learners with learning outcomes? *(You may want to reflect on how (mobile) tools can differ, e.g., from beginner to advanced)*	Tools: Voiceflow;
	10a	Will you install a learning-management-system, what platform?	No, using existing moodle platform
	10b	Which (virtual) space is needed?	Same as 10a

	11a	How will you design learning spaces/ apply technologies?	Content creation: applying voice assistant tool (Voiceflow)
	11b	What is perceived to be supportive?	FAQ (Voiceflow), Q+A (only in pilot), tutorials, videos, book (voice & action design), make subsection in moodle to make additional materials available, interactive parts in moodle: H5P
	11c	Will you provide rehab technologies, collaborative / mobile learning tools for the learners to explore, self-learn, exchange among themselves?	No
	11d	How far shall the educator be involved?	Not involved
	12a	What technical support could be needed from the institution?	Support at pilot; no support at real mooc
	12b	How is data protection adressed?	GDPR, university regulation for certificate
Preparing instruction / assignment and reassessment / evaluation:	13	What aspects are especially important when it comes to guidance in a learning scenario?	
	14	What assignments and support systems can be beneficial for the learning process?	1 Assignment after semester course (voice assistance, see 11b) + small quiz (rated, unlimited attempts) after every unit
	15	What kind of assignment emphasizes the translation of knowledge and skills in future practice? *(Future prospect: how can learners be empowered to apply their competences professionally?)*	What is purpose of this question?
	16	What tools support interactive reflection with the learners on the perspective of service users?	To be announced! ☺