CONCORSO PUBBLICO, PER TITOLI ED ESAMI, A N. 1 POSTO DI CATEGORIA EP, POSIZIONE ECONOMICA EP1, AREA TECNICA, TECNICO-SCIENTIFICA ED ELABORAZIONE DATI, PER LE ESIGENZE DEL CENTRO DI SERVIZIO DI ATENEO FEDERICA WEBLEARNING - CENTRO DI ATENEO PER L'INNOVAZIONE. LA SPERIMENTAZIONE E LA DIFFUSIONE DELLA DIDATTICA MULTIMEDIALE DELL'UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II (COD. RIF. 2007)

QUESITI ESTRATTI ALLA PROVA ORALE DEL 29 SETTEMBRE 2020

Il candidato illustri un sistema di gestione e monitoraggio di un gruppo di lavoro relativo ad un progetto europeo regionale destinato alla formazione e all'orientamento universitario, con riferimento ad un software per la gestione dei flussi di produzione.

Il candidato progetti la comunicazione istituzionale relativa al lancio di un programma di Alta formazione online secondo i principi di congruità, coerenza e trasparenza.

Si individuino le strategie di attuazione della comunicazione istituzionale per un progetto speciale per l'integrazione tra formazione multimediale e percorsi lavorativi.

Si illustrino i passi utili per impostare e modificare una immagine attraverso il software di grafica-visuale Adobe Photoshop.

Il candidato legga e traduca dall'inglese all'italiano la pagina 5 (ALLEGATA ALLA PRESENTE SCHEDA)del testo di Calise, M., Kloos, C. D., Reich, J., Ruiperez-Valiente, J. A., e Wirsing, M. (Eds.). (2019). Digital Education: At the MOOC Crossroads Where the Interests of Academia and Business Converge, Cham, Springer.

Chrome Plug-in to Support SRL in MOOCs

Self-regulated Learning in MOOCs

Initially, self-regulated learning (SRL) was studied in traditional educational settings, where the student and teacher were in the same physical location and could establish personal contact. Later on, research on SRL has continued in online learning environments, such as MOCCO.

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ticipants. Additionally, learners are expected to standard the needed skills. Therefore, there is a need for research works which carry out interventions to support self-regulation in MOOC participants.

Some authors have developed MOOC platforms to encourage learners to be active in their learning. For example, eLDa platform allows learners to choose the delivery mode between the instructor-led mode (with a pre-recommended order of lessons) and the self-directed mode (in which the learner freely decides which learning path to take) [12]. Moreover, elements to improve participants' motivation and self-regulation are incorporated, such as lesson prerequisites, private messaging, forums, and progress maps [13]. In a pilot study conducted in 2015 [14], the participants of a programming MOOC in eLDa platform were offered a survey regarding their preferences in MOOCs. The results were that the participants mostly preferred short MOOCs, with short lecture videos, as they intended to spend less than an hour per day in the course. Finally, regarding the type of online course delivery, the answer distribution was: 15.5% preferred collaborative learning, 15.5% preferred instructor-led learning; 46% preferred interactive learning, and 23% preferred self-directed learning. Therefore, learners seem to prefer an adaptative approach, followed by the self-directed mode.

Other tools found in the literature to support SRL in MOOCs are focused on specific instructional elements, such as videos. This is the case of Video-Mapper, which is presented as a "video annotation tool" [15]. Learners can add annotations to specific time points in MOOC videos, as well as reading the annotations of the other enroless. Thus, this tool aims to foster collaboration, discussion and interaction with the content of the MOOC videos. An evaluation of the tool with real MOOC participants showed its effectiveness and usability. Moreover, learners' engagement is increased through the visualisations, as they can have an appealing overview of the lecture

Nell'ambito della progettazione di un corso di laurea erogato in modalità blended, il candidato illustri le modalità per la gestione e il monitoraggio di gruppi di lavoro ad esso associato anche attraverso software per la gestione dei flussi di produzione.

Il candidato illustri le modalità di comunicazione istituzionale relative ad una piattaforma di erogazione MOOC di rilevanza internazionale nel quadro delle attività procedurali della programmazione europea.

Il candidato progetti e programmi la produzione e la comunicazione interna ed esterna per pacchetti professionalizzanti di formazione online.

Si illustrino le principali funzionalità del software di grafica visuale Adobe InDesign.

Il candidato legga e traduca dall'inglese all'italiano la pagina 7 (ALLEGATA ALLA PRESENTE SCHEDA) del testo di Calise, M., Kloos, C. D., Reich, J., Ruiperez-Valiente, J. A., e Wirsing, M. (Eds.). (2019). Digital Education: At the MOOC Crossroads Where the Interests of Academia and Business Converge, Cham, Springer.

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7

 Provide some advices to the learners in order to improve their SRL skills as well as inspirational quotes to increase their motivation.

Provide an *intuitive and appealing interface*. Designing a simple and user-friendly interface is considered important to achieve high usability and learners' engagement with the tool.

4 Design

4.1 Design Decisions

After determining the SRL strategies to support, the specific type of tool was chosen with the constraint of focusing on edX platform, as this was the institutional MOOC platform. In fact, other intervention types apart from tools were not suitable for our work. On the one hand, path recommendations or interventions that are embedded in the MOOC platform cannot be implemented in edX platform. On the other hand, study groups are not considered the best option in MOOC environments due to location constraints (e.g., Guo and Reinecke identified 196 origin countries among enrolees of 4 different MOOCs [24]).

Therefore, the initial designing step was selecting between a computer or mobilebased tool. Currently, the edX mobile application allows participants to watch videos and complete exercises. However, this application does not yet allow completing evaluations. Thus, enrolees who intend to complete the MOOC should access the course through a computer, at least, to take the exams. Additionally, a browser should be used when accessing the course. According to Statcounter¹, Google Chrome browser has a worldwide market share of more than 50% during 2017 and 2018. Consequently, the idea of a computer-based tool is concretised in the development of a Google Chrome extension (also called plug-in) to be designed according to the requirements summarised in the previous section. This tool, named MOOCnager, aims to support MOOC participants in their development of their SRL skills.

Finally, the last design decision was choosing a suitable database to store and access the information generated by the enrolees' usage of the plug-in. A local database was discarded so that the information of a user was not constrained to the device he is accessing the plug-in with. In other words, the intended behaviour is that the information of a user is accessible, after logging in, regardless of the device. Additionally, a non-relational database (NoSQL) was preferred because possible future changes in the stored information do not imply major database modifications.

Per ordine del Presidente Il segretario f.to Claudia Russo