Potentials and Challenges for User-generated Video Content in Public Libraries

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ABSTRACT
The role of libraries are rapidly shifting, in large part as a consequence of digitization. In addition to providing access to collections of books and other physical media, public libraries today are embracing a new role of becoming urban hubs, in which a wide range of activities take place. In these activities, local knowledge is developed, exchanged, and disseminated. However, there are still very few digital services that support this new role. Here, we explore how to develop digital services for supporting and leveraging user-generated video content in library activities. Based on interviews and design scenarios as probes, we describe the potentials and challenges for designing such services, as seen from the perspective of library staff. Our insights will inform the design of a new digital service for publics to participate in collaborative production of videos to document, exchange, and disseminate local knowledge generated in library activities.

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INTRODUCTION
The amount of user-generated video online is increasing significantly. Using mobile devices, people can easily produce videos and share them with friends and publics via social media such as Youtube, Facebook, Twitter, Instagram, and Snapchat. Particularly, studies show that people are attracted to capturing and broadcasting their experiences in public events such as concerts, festivals, and sports games [4, 10].

Simultaneously with the rapid proliferation of user-generated video content, we have witnessed a shift in public library development. While libraries have traditionally focused on provision of knowledge (i.e., via their collection of books), public libraries these days are becoming a ‘third place’ for co-creation of knowledge with local community members [9]. Notable trends in this shift include digital placemaking and activity support in libraries [1, 6]. Public libraries are now hosting a variety of cultural events and community activities, ranging from large scale exhibitions to weekly local meet-up groups. While these activities are often highly valued by library patrons, there are no dedicated services to capture the knowledge generated during these activities, meaning that once an activity is over, the insights and materials that might have been created during the activity are easily lost.

We work on a cross-European research project called PLACED (http://placedproject.eu/), in which we aim to develop digital services that support knowledge co-creation by the local community members as they actively participate in a range of library activities. In particular, we are interested in exploring the role of user-generated video as a means to document and disseminate local knowledge. In this paper, we therefore explore the question: What are the potentials and challenges for supporting and leveraging user-generated video content in library activities?

BACKGROUND
Using video as a medium for knowledge production in public libraries is not new. Consider, for example, Tucson Public Library’s video program in the 80s, in which librarians were sent out to produce video cassettes about the history, peoples, and cultures of the Sonoran Desert where Tucson is located [5]. More recent research has looked into the relationships between marketing on social media and user engagement in public libraries (e.g., [7]) and the potential for streaming video lending services (e.g., [8]). However, most of the existing work has focused on supporting the traditional role of public libraries as repositories of knowledge. Little work has been done to support their emergent role as urban cultural hubs for participatory local knowledge production and dissemination. For the past

KEYWORDS
user-generated video; public library; HCI.
years, we have worked in a cross-European project aiming to develop place- and activity-centric digital library services [6, 9], which can support this emergent role of libraries.

**METHOD**

In order to explore the need and possibility for using user-generated videos in public library settings, we conducted focus groups with a total of six library staff from two public libraries, one in Denmark (hereinafter referred to as PL1) and one in Sweden (hereinafter referred to as PL2) (see Figure 1 for details). Specifically, we conducted a semi-structured group interview with three library staff from each location. In addition, we conducted a follow-up interview with one of the library staff in PL1. In this follow-up interview, we used design scenarios as probes to explore specific issues raised during the feedback sessions on an early prototype of the place- and activity-centric digital library service [6] (see Figure 2, 3, and 4). The interviews were transcribed and imported into NVivo 11 for thematic analysis [2]. The themes were further analyzed and categorized into design potentials and challenges.

In the following sections, we share preliminary insights from our data analysis with illustrative quotes from the participants’ responses. First, we present four key potentials for using user-generated videos to advance library services. Next, we discuss five key challenges that need to be considered.

**POTENTIALS**

**Giving Voice.** In both libraries, participants saw value in broadcasting patron-generated videos either on public displays in the library or on social media in general. Importantly, patron-generated videos can serve as a powerful tool for giving voice to community members to express their own experiences of being in the library.

D1: “If we had the right to do it, to share it [patron-generated videos], yeah that would be great. I mean we always look for good content to show what’s going on here and how do people experience being here. That’s why we like to use Instagram, because that [Instagram] is what we have right now, but that [patron-generated video] shows the experience of being at [PL1] from a point of view which is not ours. And I think that has a lot of value for us. Because this is not us saying something about the place, it’s the people using the place saying something about their experience here. And that’s the most valuable communication.”

**Cultivating Ownership.** Interestingly, participants felt that de-anonymization (i.e., giving credit to individual creators) might lead to increased sense of ownership not only of a particular video made by the patron but also of the library collection as a whole.

D1: “Because we would like people to feel ownership for this alignment [attaching their personal identity to the video that they have generated]. And when you feel ownership, you won’t harm the place, you will protect it. So that is what we are aiming for.”
Participants expected that by claiming their individual identity, patrons will become more responsible for what they produce and take pride in what they personally contribute to the community.

**Increasing Accessibility.** Consistent with the findings from the previous study [9], participants emphasized the need for providing better access to make sure that everyone is invited to partake in library activities. Participants thought that patron-generated videos such as live-streamed videos might allow other patrons, who are unable to physically attend library activities (e.g., disabled citizens, citizens living in rural areas), to participate remotely. Participants also saw value in making videos of the past events available online so that patrons would have the opportunity to go back and review them (e.g., if there were something that they missed or did not understand during the activity).

L1: "Author visits or a lecture or something we could record and then save it for later, for people who are not here."

L2: "Or maybe [people] would go to a lecture or author visits and when they come home they want to watch some parts again—that could have a value."

**Improving Evaluation Practice.** Finally, we asked the participants how videos might be used to improve their evaluation practices, for example, for their annual report. We asked this question based on the librarians’ need identified in the previous study [9]. At first, participants indicated that they were not sure how the kinds of videos discussed in the interview (i.e., patron-generated videos) could assist in gathering statistics for the report (e.g., how can you count the number of attendees by analyzing videos?). However, they were convinced that videos could be useful for monitoring and evaluating their personal performances during the events.

**CHALLENGES**

**Privacy Regulations.** Participants raised practical concerns surrounding the General Data Protection Regulation (GDPR), a regulation on data protection and privacy for all individuals within the European Union (EU) and the European Economic Area (EEA) [3]. At PL1, they currently have public displays that show random Instagram photos with the library hashtag. When asked about the possibility to use patron-generated videos documented via official library services instead of Instagram photos, participants became concerned that patrons may not understand the legal implications of the GDPR.

D1 emphasized the importance and the difficulty of obtaining informed consent to ensure that people are not recorded unknowingly or against their wishes.

D1: "What if I'm a homeless guy sleeping on the computer downstairs, and somebody records it, and it's on the screen? I don’t have a phone or I don’t know how to access this platform and anonymize my face."

Participants from PL2 were also deeply concerned, especially because children are their primary target group for workshop activities (e.g., makerspace, creative workshops). In order to produce videos,
FOUR DESIGN POTENTIALS

P1. Giving Voice
User-generated videos can serve as powerful tools for giving voice to community members to express their own experiences of being in the library.

P2. Cultivating Ownership
Giving credit to individual creators contributing videos can lead to an increased sense of ownership of the library collection as a whole.

P3. Increasing Accessibility
User-generated videos can serve as fruitful tools for allowing more people to participate in library activities both physically and remotely.

P4. Improving Evaluation Practice
User-generated videos can be useful for monitoring and evaluating librarians’ personal performances during organized activities.

Anonymization and Abuse. While deeply concerned with privacy regulation, participants were also against the idea of allowing anonymous contributions in fear of potential vandalism and trolling.

D1: “And we all know how people behave in anonymous ways on social media. [...] The tendency goes towards being more rude, more brutal, and I don’t know if that would happen in this way. I think we would have to experiment with that [the effect of anonymization]. We’ve seen a tendency towards that in the digital domain, and it would be interesting to see because it’s hard to say right now.”

Sense of Expertise. While people frequently share videos on social media for casual purposes, participants pointed out that patrons may feel reluctant to share videos to become a part of the library collection, where videos are seen as a representation of knowledge. Participants from PL1 explained that many patrons do not consider themselves experts, i.e., compared to invited authors and lecturers in many library events, therefore, seeing little value in contributing their own inexpert knowledge.

D1: “Most people like to share their knowledge if they feel strongly about it, but if you attend an event about an author and a book [...] then it is a bit more difficult to share your knowledge because you’re not an expert, you are just an attendee.”

Sense of Community. Interestingly, participants tied motivation for sharing with a sense of community. They imagined that patrons may be motivated to share videos based on a strong sense of community among the event participants, yet, only in smaller group settings such as a local reading group or a language cafe, where locals regularly meet and get to know each other. In contrast, at bigger events such as a public lecture full of anonymous audiences lacking a sense of community, it was deemed less likely that people will want to share their videos.

Pro-quality Video Post-production. Participants emphasized the importance of producing high quality videos. Participants from PL1 explained that the video clips they share on social media hardly receive any views, that viewers quickly lose interest if the video presents less than perfect quality (e.g., a shaky camera). Furthermore, it would be difficult to paint a cohesive picture of an any given event with so many videos generated by different patrons, each with a different look and feel. Therefore, participants emphasized the need for proper post-production editing. For example, at PL1, the library have created a nice video montage in the past, which was outsourced to a couple of journalism students. However, library staff have neither time nor the technical expertise to carry out professional editing of videos themselves. Thus, participants emphasized that patron-generated videos will be very useful if the post-production editing process could be automated somehow.
CONCLUSION AND FUTURE WORK
As stated above, our overarching goal is to develop place- and activity-centric digital library services that support co-creation of local knowledge by the community members as they actively participate in a range of library events. While people are already producing videos in various public events and often sharing them online, such videos are currently fragmented across many different social media platforms. We argue that there is much value in building a common platform for documenting user-generated videos for the purpose of local knowledge production. While different from traditional expert knowledge, such videos can effectively convey the wisdom of lived experience of the local community. Public libraries can further the democratization of knowledge, not only by providing access to established knowledge via books and organized activities, but also by cultivating emergent, community-generated knowledge via videos, thus, supporting collaboration beyond participation.

REFERENCES