**Narrative Report**

**01th March 2012 to 12th April 2013**

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*CC: Dafina Zuna Hoxha*

*Subject: Narrative Report*

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| Main tasks | Progress |
| Website design layout | - All pages are created, and some are re-constructed.  - Added Glyph Icons library (extension of Twitter bootstrap)  Created pages are from the following components   * Voting audios (including public page) * Voting translations (including public page) * Record audio (including public page) * My translations * My audios * Drafts * Projects status * Generating final video   And more detailed pages… |
| Business logic | All business logic is implemented and re-implemented some of the pages.  New implementations in following modules:   * Super editor module * Editor module * Public pages (that don’t require authentication) * SoundCloud module * Youtube module * Youtube DL (python script) * SoundCloud (python script) * FFmpeg module * Curl for CodeIgniter * reCaptcha |
| Database schema design | * Changes in database structure and relations are done according to added and modified modules. * Created SQL Scripts for creating schema with initial data * Created a detailed PDF for entire database schema structure and relations |
| Platform workflow review | After reviewing the workflow cycle about Super Editor existence we decided to use Super Editor role also to make two staged voting process, one for translations and another one for recorded audios. |
| Platform dependencies | Added external dependencies (all dependencies are offered and build with Open Source license):  Curl library for CodeIgniter  This was needed for simplifying the requests that are made for any external resources, in our case YouTube or SoundCloud.  ReCaptcha library  A free anti-bot service offered by Google. It is useful for stopping spam and automatic generated input for translations or audio recordings by public.  SoundCloud Python  After reviewing SoundCloud service usage with Soud, we decided to use python for accessing SoundCloud service. The reason for this was that SoundCloud API didn’t support direct authentication for a single user with username and password for PHP (however it was supported only by Python and Ruby) as we needed in our case. So for each audio record and upload on SoundCloud we needed to generate access token.  Youtube DL  This is very light weight command line application built over Python, and can run on different systems. Its main function is to download any video or audio with specified output from different video and audio streaming websites, including YouTube and SoundCloud. This would make it very easy to handle downloading the selected audio and video from YouTube because will localize the responsibility. Also considering that YouTube terms and conditions don’t support downloading video from their service. This makes YouTube to constantly change the way of serving video, which maybe after a time would disable Crowdlator for download video. So if anytime Crowdlator cannot download YouTube videos, we can easily update this application (Youtube DL) and will solve the problem.  FFmpeg Library  This is an open source library for audio/video rendering. It is offered for different systems. I implemented dynamically in that way that would work either in Windows or Linux servers. Crowdlator use this for finalizing video (re-rendering video with the translated recorded voice by crowd). |
| Finalizing project | * Created an online repository for sharing the platform code, file revision, tracking changes and bugs. It can be accessed by public but not for committing code. Link: <https://bitbucket.org/trimkadriu/crowdlator> * Created Setup Notes * Created SQL script for creating schema structure and initial data * Released the platform on Innovations Lab testing server. Link: <http://server1.kosovoinnovations.org/AlJazeera/crowdlator/> |

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| Reports by date | |
| Date | **Situation** |
| 19-Mar-2013 to 03-Apr-2013 | Required clarifications about the voting process. Like:  “Who is supposed to vote in voting process? If all the users can vote there, then what's the point to have an Editor user role (since the translation will be already chosen by votes)?” |
| 03-Apr-2013 to 10-Apr-2013 | Required review on SoundCloud implementation about the issue of SoundCloud API unsupported authentication function for PHP. Then we decided to use Python for getting access token (authenticating) on SoundCloud |
| 17-Apr-2013 to 18-Apr-2013 | Review on audio recording issues:   * Time synchronization with the video mismatch. * Who will record the audio version for translated text? |