



The Bible OL App

Judith Gottschalk's Pi 3 development

Global Learning Initiative News July 2017

From the very start of Global Learning Initiative in 2014, software test manager and PhD student at Aalborg University, Judith Gottschalk from Nuremberg, has worked on Bible OL. Her Learning Journey project is now available as a module in Bible OL for registered users.

Judith Gottschalk's project focuses on computer-assisted language learning with a special focus on theological education in Africa. But in her dissertation Gottschalk also investigates broader applications of e-learning with, like work on agriculture, health care etc. She worked for Danmission in Madagascar in 2015 with Nicolai Winther-Nielsen. In 2017, she evaluated the setup of the offline e-learning system for Danmission set up in 2015, which used an old re-furbished laptop as a LAMP server. Gottschalk is now setting up an easy to use independent e-learning system, using Raspberry Pi 3 as LAMP servers and access points. It can host the MoodleBox solution under development by Asmo Koskenen. She will present her first app solution at the Society of Biblical Literature International Meeting in Berlin in August.



Gottschalk's LAMP server runs an operating system on a micro-SD card; the OS setup can be forked from GitHub. The Raspberry Pi works as a mobile access point, and will support an independent computer network by just connecting it to solar power or to a battery. Her solution is cheaper than other solutions, the Raspberry Pis and the solar power solutions can be brought on the African continent, and is very robust for African settings. It can easily connect to any kind of power supply. It offers learner-friendly front-end persuasive technology through little boxes of the size of a credit card with a single slot for connecting them with the power supply. Gottschalk's Bible OL App based on the Raspberry Pi is a progressive web app. It works with the PHP-framework Symfony and the JavaScript framework Angular 2. Working offline, once accessed via the browser of a device, it works outside the institution without internet connection. The Bible OL App will have a user-friendly login-screen designed for the needs of African students with a picture- and emoji-based login. The system can be for e-learning of all kind of subjects.

Judith Gottschalk holds an industrial degree in programming working as software test manager through Clear IT for DATEV eG in Nuremberg and has a master's degree in computational linguistics. She programs in PHP, JavaScript and C#. Her PhD has GLI director Nicolai Winther-Nielsen as co-promoter. She has been selected for personnel secondment by Brot für die Welt from 2015 till 2016 and received training provided by Brot für die Welt as an add-on to her PhD-program in order to get deep insights in development work and to be able to work in the field.

For more information, see <http://global-learning.org/> and <http://bh.3bmoodle.dk/>.

Do not hesitate to contact director of GLI, Nicolai Winther-Nielsen at nwn@dbi.edu