

TEMACC – Addis Ababa – April 2018

Trip Report

TEMACC meeting, Fri. Apr. 13, 2018 @ Mentor/Addis Ababa

Attendees: Gustav Pomberger (GP), Christane Floyd (CF), Rahel Bekele (RB), Tesfaye Biru (TB)

GP and CF arrived Addis in the morning of Friday April 13, 2018. After a short break at the hotel they met with RB and TB at Mentor Knowledge Solutions to get a first overview on the current state of the project and to discuss organizational issues.

TEMACC/COSMOS meeting – Mo. Apr. 16, 2018 @ Mentor/Addis Ababa

COSMOS stands for *C*ontextualization of *S*oftware *M*eth*O*ds in the context of a *S*ustainable *I*ntercultural *H*ealthcare *P*latform.

Attendees: Gustav Pomberger (GP), Christane Floyd (CF), Johannes Sametinger (JS), Rahel Bekele (RB), Tesfaye Biru (TB), Henock Lulseged (HL), Betsagew Dereje (BD), Adey Edessa (AE)

JS arrived on Monday morning, April 16, 2018 leaving from Linz on Sunday evening. It is a research project of the JKU that builds on TEMACC. TEMACC is an IT-enabled cooperation platform. For COSMOS, the TEMACC prototypes shall be extended to study contextualization in various contexts such as user environment, developers' environment, health systems environment, etc. Aspects to be considered include usability, security, mobility, business processes, etc. This will result in contextualized software engineering methods.



TEMACC/COSMOS meeting: Betsagew Dereje, Tesfaye Biru

With regard to TEMACC, it is decided that there is now enough functionality to perform the intervention study. Therefore, future activities will concentrate on the study that will produce the main research output for TEMACC. The three doctoral candidates, Henock, Adey and Bestagew will conduct research on the various aspects of TEMACC and COSMOS. Henock shall concentrate on contextualization of security aspects. Adey shall concentrate on usability where she shall also use the intervention study as a means of user feedback. Bestagew is still open with his plans but may work on mobility issues. The plan is to split the doctoral visits to Linz, provided that appear will approve the budget reallocation. Rather than having two people come for 3x3 months, 3 people could come for 2x3 months for the duration of the project.

TEMACC meeting – Tue. Apr. 17, 2018 @ Addis Ababa University (AAU)

Attendees: Gustav Pomberger (GP), Christane Floyd (CF), Johannes Sametinger (JS), Rahel Bekele (RB), Tesfaye Biru (TB), Robel Yirgu (RY), Messeret Ayano (MA), Betsagew Dereje (BD), Zelalem Debebe (ZD), Adey Edessa (AE), Dagmawit Mohammed (DM), Mengisti Berihu (MB)

After the introduction of new members of the project (DM and MB), Rahel gave an extensive report about the state of work. Subsequently, there were presentations and discussions of the various prototypes that had been implemented. BD presented the HEW (health extension worker) system. AE presented the HO (health officer) system (case-based knowledge sharing platform). The third prototype is the mother's systems which is an android application (audio-visual system for mobile phones).

Beside the prototypes, the intervention study and the data collection process were discussed. It is reported that the team is in the process of developing an automated data collection tool so that the data is collected using tablets. DM is responsible in coordinating the development of the data collection tool under the guidance of RB.

The TEMACC system now consists of the following subsystems:

- **TEMACC Mothers App**

Iconic educational information for mothers on ANC, PNC, vaccination, hygiene, nutrition and sick child, plus a reminder and promotional messages based on the level of pregnancy and child birth.

- **TEMACC HEW App**

Scheduling visits, registering mothers, delivery information, postnatal care follow up, an online content management system, as well as educational platform which considers 16 packages.

- **TEMACC HO App**

Case-based knowledge sharing and morning meetings recording platform where health officers consult other experts when problems or complications occur.

- **TEMACC Server**

Hosting all TEMACC software, data, educational content, running web-based systems as well as the data collected both during the base line survey and the end line survey.

Additionally, organization issues such as hardware procurement and transfer were discussed. It was reported that currently, we have 18 phones (8 still unlocked), 12 tablets (6 still unlocked), and 6 solar chargers. For the intervention study, we'll need a server and many more phones and tablets. In order to get more money for phones, it is agreed to reallocate budget. It is also noted that the data collection cost was underestimated, where as we may not need money for video production (not needed any more as there are videos from Ministry of Health and other other relevant institutions). Also, we will have less telephone cost. On the other hand, it turned out that more money for the audit reports will be needed.



TEMACC meeting: Mengisti Berihu, Messeret Ayano, Rahel Bekele
by Johannes Sametinger

TEMACC meeting – Wed. April 18, 2018 @ AAU/Addis Ababa

Attendees: Gustav Pomberger (GP), Christane Floyd (CF), Johannes Sametinger (JS), Peter Oppelt (PO), Julia Lichtkoppler(JL), Rahel Bekele (RB), Tesfaye Biru (TB), Robel Yirgu (RY), Messeret Ayano (MA), Betsagew Dereje (BD), Zelalem Debebe (ZD), Adey Edessa (AE), Dagmawit Mohammed (DM), Mengisti Berihu (MB).

PO arrived in Addis on Wednesday morning, April 18, 2018. In the morning, discussions and reflections were made on the previous meeting. Some suggestions and comments were made on the presentation to be given during the networking meeting of APPEAR. The feedbacks received on the annual report were discussed.

At noon, the team met JL for lunch and we came to TEMACC office at AAU. After a short introductory round, RB gave an overview of the project and demonstrations were made on the various prototypes.



TEMACC meeting: Gustav Pomberger, Julia Lichtkoppler, Tesfaye Biru
by Johannes Sametinger



TEMACC meeting: Adey Edessa, Betwagew Dereje, Monika Pomberger,
Gustav Pomberger, Mengisti Berihu
by Rahel Bekele

Field Trip – Thu. April 19, 2018 @ Butajira

Attendees: Gustav Pomberger (GP), Christiane Floyd (CF), Johannes Sametinger (JS), Peter Oppelt (PO), Julia Lichtkoppler(JL), Rahel Bekele (RB), Tesfaye Biru (TB), Messeret Ayano (MA), Zelalem Debebe (ZD), Adey Edessa (AE), Dagmawit Mohammed (DM), Mengisti Berihu (MB).

After five hours of driving we arrived Butajira in the afternoon. We visited a health post (HP) with a health extension worker (HEW) as well as close-by huts to give a first impression to first-time visitors.

The HP we visited is a different one from last year. It is interesting to see some new material like real images to demonstrate breast feeding or about nutrition. Also this HEW seems to use some written material that was not used by the one we visited last year. Tesfaye interviewed the HEW, making pictures of forms and making notes about the activities. Later, Ra, JL and JS discussed administrative issues like budget reallocations, workshop costs, PhD financing, etc.



Health Post: local, Rahel Bekele, local, Gustav Pomberger, Tesfaye Biru
by Johannes Sametinger



Site Visit: Christiane Floyd, Johannes Sametinger, Gustav Pomberger
and locals
by Peter Oppelt

Prototype testing – Fri. April 20, 2018 @ Butajira Health Center

Attendees: Gustav Pomberger (GP), Christane Floyd (CF), Johannes Sameting (JS), Peter Oppelt (PO), Julia Lichtkoppler(JL), Rahel Bekele (RB), Tesfaye Biru (TB), Messeret Ayano (MA), Zelalem Debebe (ZD), Adey Edessa (AE), Dagmawit Mohammed (DM), Mengisti Berihu (MB).

On Friday, the team went to the health center where the prototype was to be tested with HEWs, mothers, and health professionals. The morning was dedicated to testing the prototypes with mothers and health extension workers. While the mothers are quite satisfied with the new improved software version, the HEWs have some minor remarks that will be considered for the final HEW system version.



Prototype testing: Dagmawit Mohammed and mother with prototype
by Johannes Sameting

The health officers (HOs) tested the consultancy platform in the afternoon session. Comments and feedbacks were collected for inclusion in the final version of the system.



Health Extension workers using the prototype
by Rahel Bekele

Thank you Occasion by the locals and return trip – Sat. April 21, 2018 @ Butajira Health Center

Attendees: Gustav Pomberger (GP), Monika Pomberger (MP), Christiane Floyd (CF), Johannes Sametinger (JS), Peter Oppelt (PO), Julia Lichtkoppler(JL), Rahel Bekele (RB), Tesfaye Biru (TB), Messeret Ayano (MA), Zelalem Debebe (ZD), Adey Edessa (AE), Dagmawit Mohammed (DM), Mengisti Berihu (MB)

Members of the health center (HC) in Butajira acknowledged the works of the TEMACC team. As such a formal thank you notes were made for work done in the TEMACC and COSMOS projects as well as on an additional project to build a delivery room, initiated by PO. Traditional dances were also performed for the Austrian team to show the rich culture of the Gurage people.



Thank you Occasion: locals, Monika Pomberger, Peter Oppelt, Gustav Pomberger, Christiane Floyd, Julia Lichtkoppler, Zelalem Debebe, Messeret Ayano

by Johannes Sametinger



Cultural Dancing

by Rahel Bekele



In the afternoon of April 21, 2018, the team drove back to Addis Ababa.

Discussion with PhD Candidates and Appear workshop – Mon. April 23 @ Wassamar hotel/Addis Ababa

The morning started with discussions about the next steps for the PhD candidates. Participants were CF, TB, JS, HL, AE, BD. The candidates were informed to have their documents authenticated in order to get admission to JKU. JS will check and inform them about the lectures they have to attend when they are in Austria. It was also noted that they have to write a max. 1 page description of their planned thesis. It is agreed again that Henock will work on security; Adey will work on usability which also includes the data collected during the intervention study and Betsagew will work on mobility/architecture. As the PhD might not be completed within the project duration of TEMACC, it is mentioned that we may need to look for additional funds towards the end.

The Appear workshop at the Wassamar hotel started at 10:00 am. After welcoming remarks, the current 7 appear projects in Ethiopia were presented. RB gave the presentation of the TEMACC project. There was also a presentation of the very first appear project. After lunch there were three discussion groups on successful communication, on sustainable institutional partnerships, and on gender mainstreaming perspectives. Brief presentations were made on



appear workshop attendees
by Julia Lichtkoppler

the discussion results of the group. The meeting gave members of the different projects awareness on what the other groups are working on, what challenges were faced and ideas on how to best tackle problems. It was suggested that such a meeting needs to be held on a regular basis.

Before the Austrian group departed from Addis, RB and JS discussed administration matters for follow up over email. The issues included budget reallocation, equipment purchase and the next meeting.