POWER2DM

"Predictive model-based decision support for diabetes patient empowerment"

Research and Innovation Project
PHC 28 – 2015: Self-management of health and disease and decision support systems based on predictive computer modelling used by the patient him or herself

Deliverable 2.7

D2.4.3 Mobile GUI Components for Visualization and Predictions/Simulations

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RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

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EXECUTIVE SUMMARY

This document describes the decisions taken for the graphical user interface (GUI) of the mobile App for Visualisation and Predictions/Simulations.

Based on the experience of the GUI components developed for the DSS (Deliverable 3.9) and given the complexity of the Web based GUI Components for Visualization of Prediction / Simulation (Deliverable 2.4.2), it has been decided in the Consortium meeting of May 2018, that the complexity of the prediction / simulation models was not suitable for a visualization in a mobile App. Therefore, it has been decided not to implement the visualization of the prediction / simulations models in the mobile App but rather to focus on improving user experience on other components of the Mobile App.

The visualization of the prediction / simulations models is available to users through the web interface as described in Deliverable 2.6.

POWER2DM Consortium Partners

Abbv	Participant Organization Name	Country
TNO	Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek	Netherlands
IDK	Institute of Diabetes “Gerhardt Katsch” Karlsburg	Germany
SRDC	SRDC Yazilim Arastirma ve Gelistirme ve Danismanlik Ticaret Limited Sirketi	Turkey
LUMC	Leiden University Medical Center	Netherlands
SAS	SAS Servicio Andaluz de Salud	Spain
SRFG	Salzburg Research Forschungs Gesellschaft	Austria
PD	PrimeData	Netherlands
iHealth	iHealthLabs Europe	France

OPEN ISSUES

No:	Date	Issue	Resolved
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1 INTRODUCTION

1.1 Purpose and Scope

This document describes the decisions taken for the graphical user interface (GUI) of the mobile App for Visualisation and Predictions/Simulations.

The next section describes the main components of the GUI of the mobile App and the decisions taken for the graphical user interface (GUI) of the mobile App for Visualisation and Predictions/Simulations.

1.2 References to POWER2DM Documents

- POWER2DM Description of Work (Proposal)
- D1.1 User Requirements and Use Case Scenarios
- D3.7 Mock-ups for Web and Mobile User Interfaces for SMSS Interventions
- D3.9 Mobile GUI Components for DSS
- D2.6 Web based GUI Components for Visualization of Predictions/simulations

1.3 Definitions, Abbreviations and Acronyms

Table 1 List of Abbreviations and Acronyms

Abbreviation/ Acronym	DEFINITION
API	Application Programming Interface
ARC	Audit Repository Client component
DSS	Decision Support System
GUI	Graphical User Interface
SMSS	Self-Management Support System
UI	User Interface

2 USER INTERFACE COMPONENTS OF THE MOBILE APPLICATION

2.1 Main components of the User interface of the Mobile App

As described in Deliverable 3.9, the main purpose of the mobile App is to provide an easy way for users to view quickly their performance in terms of goal adherence, to receive reminders / notifications for their goals and interventions which includes daily motivational support and to log any of the measurements or events.

The GUI includes the following components:

- Login screen
- Daily dashboard and goal / action plan monitoring
- JITAI delivery / push notification messages
- Loggin events / measurements (add event view)
- History view
- App settings and log out view
- Technical support tool

2.2 Graphical user interface (GUI) of the mobile App for Visualisation and Predictions/Simulations.

Based on the experience of the GUI components developed for the DSS (Deliverable 3.9) and given the complexity of the Web based GUI Components for Visualization of Prediction / Simulation (Deliverable 2.4.2), it has been decided in the Consortium meeting of May 2018, that the complexity of the prediction / simulation models was not suitable for a visualization in a mobile App.

Although initial mockups were presented in section 3.2 of the Deliverable 3.7, it is not feasible to implement such complex graphs in a mobile App designed for use on phone, since the screen of mobile phone is too small and mobile programming languages currently available are not suitable for such purpose.

Therefore, it has been decided not to implement the visualization of the prediction / simulations models in the mobile App but rather to focus on improving user experience on other components of the Mobile App. The visualization of the prediction / simulations models is available to users through the web interface as described in Deliverable 2.6.

3 CONCLUSION

This document has explained the rationale for the decision that has been taken by the Consortium not to implement the visualization of the prediction / simulations models in the mobile App but rather to focus on improving user experience on other components of the Mobile App.

The visualization of the prediction / simulations models is available to users through the web interface as described in Deliverable 2.6.