



Check Glucose level

PROBLEM

Diabetes a global health challenge,

- Switzerland, half a million
- Type 1 Diabetes – 10%
- Diagnosis at a very young age
- Insulin therapy
- Prevents long-term complications
- Data recorded to different places



SOLUTION:

dataMosaic – Seamless data Integration / Innovation in digital space

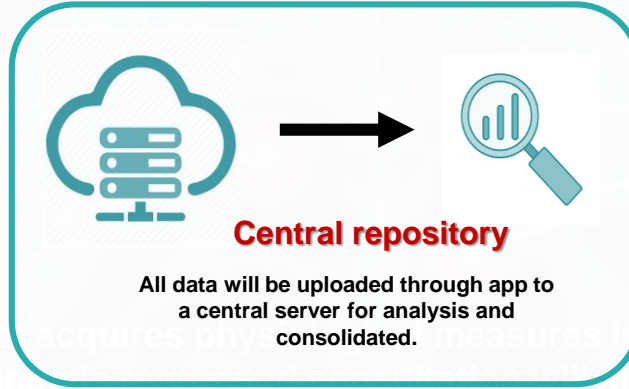
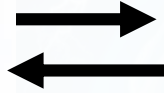


NEED

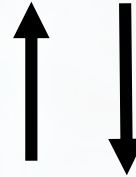
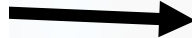
Review of data needed

- To understand glucose trends
- Identify issues
- React and provide help
- Adjust insulin dosage
- Pair sensor data with self reported data to improve prediction
- Mine complex data relationships
- Use Data-driven recommendations
- Probe automatic control with AI

Proposed Solution



Receives digital reports for both offline or online consultations.
Health care Professional



dataMosaic – supported services



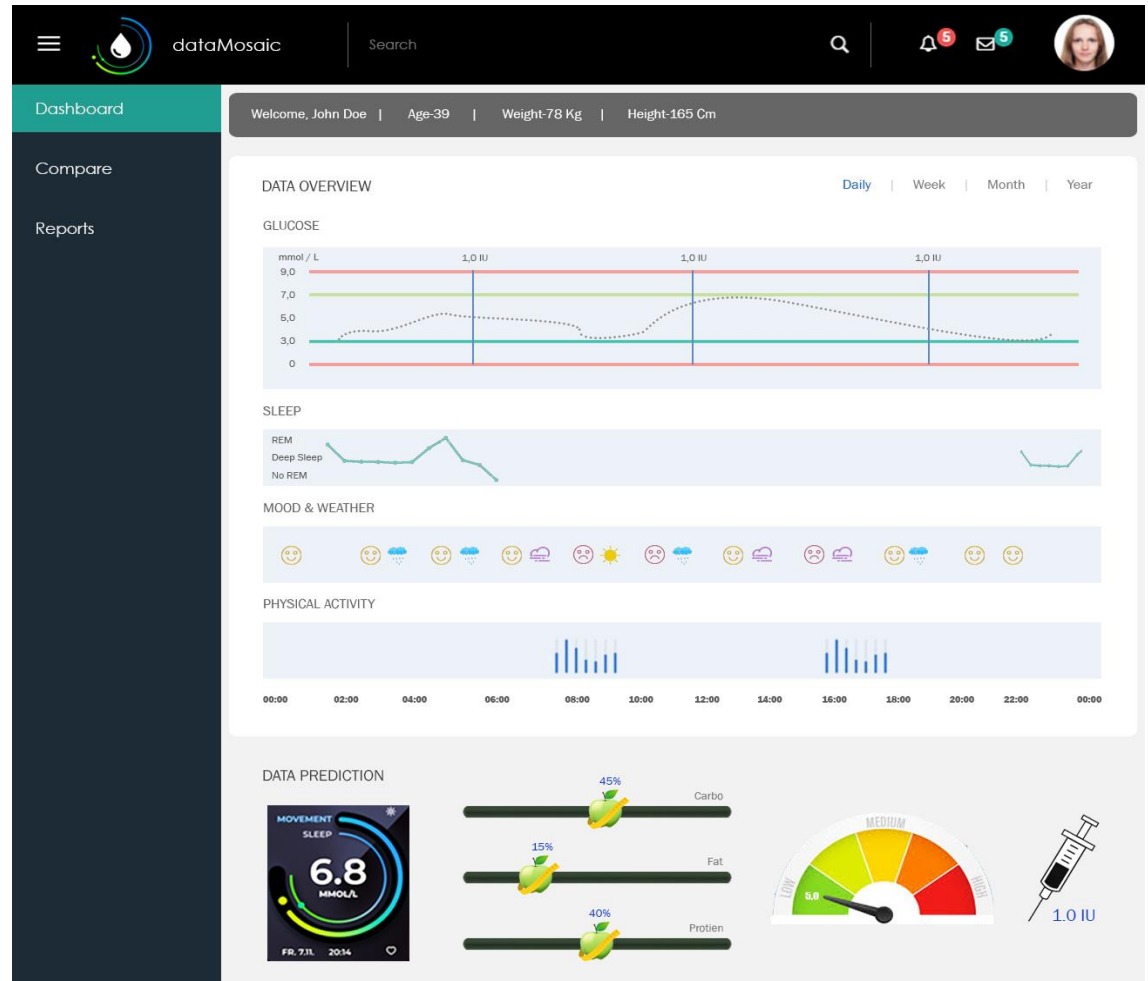
Smart Watch	Smart Phone	Ipad / Desktop
App	App	
	Dashboard	Dashboard
Alarm	Alarm	Alarm
Diet plan	Diet plan	Diet plan



Daily View

- 24 hours overview
- Glucose
- Sleep
- Weather
- Mood
- Physical Activity

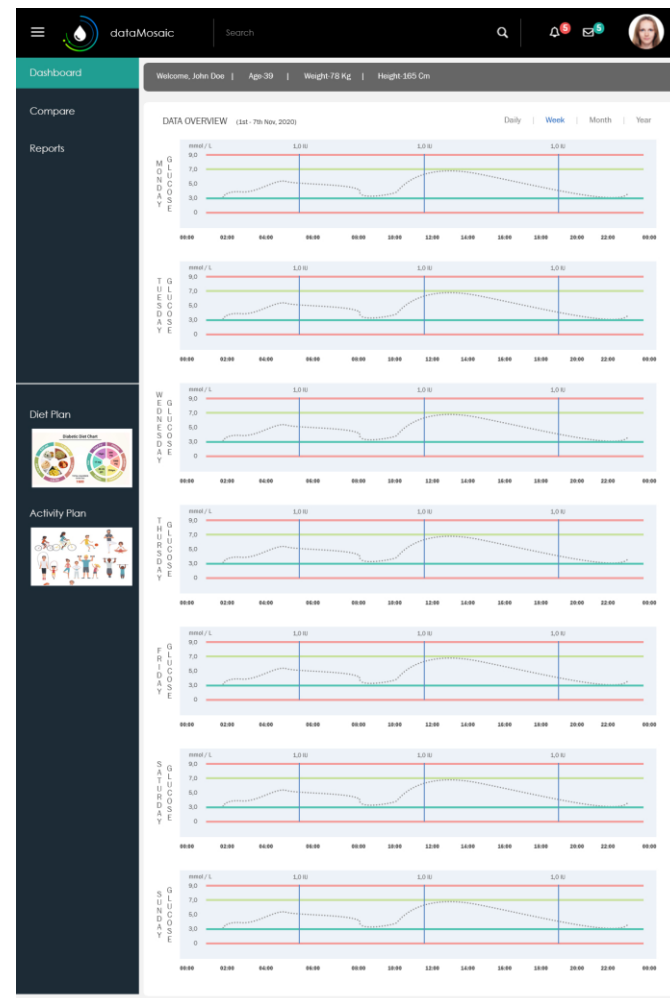
- Insulin Dosage
- Carb
- Fat
- Protein
- Glucose predicted



Weekly View

- 7 days stacked
- Glucose 24 hrs view

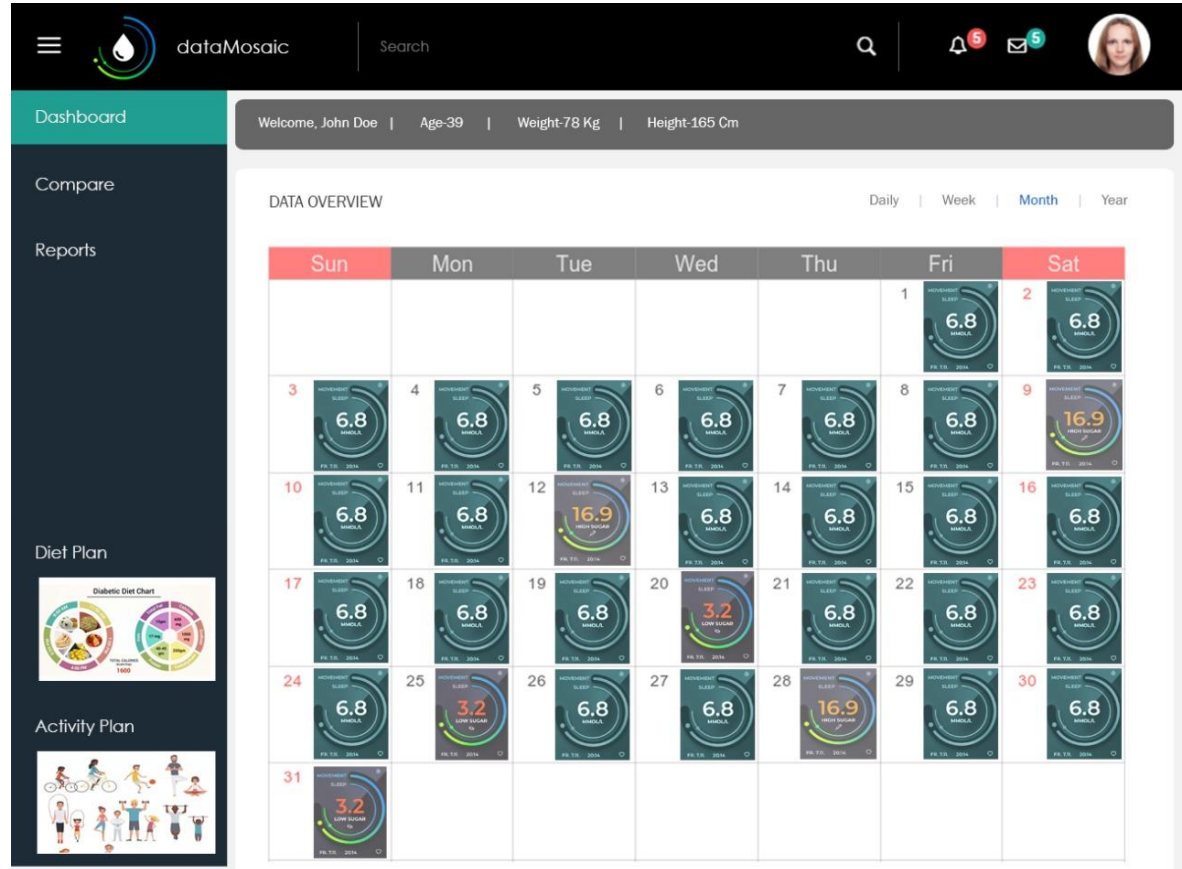
- Diet plan Weekly
- Physical Activity



Monthly View

- 30 days overview
- trends

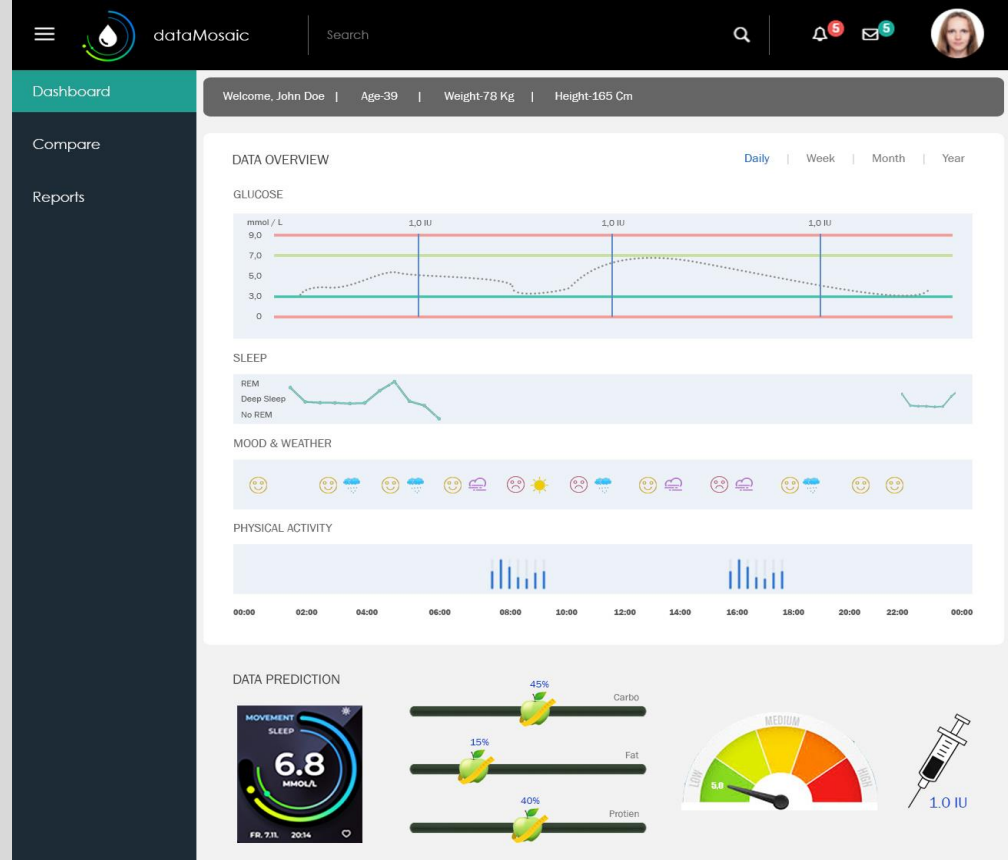
- Diet plan Weekly
- Physical Activity



Alarms



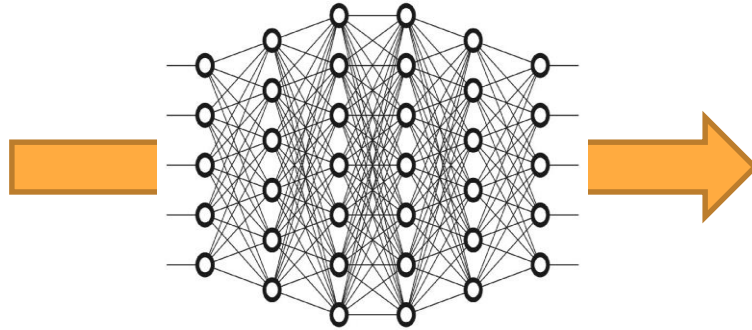
dataMosaic






Prediction of lifestyle parameters using AI

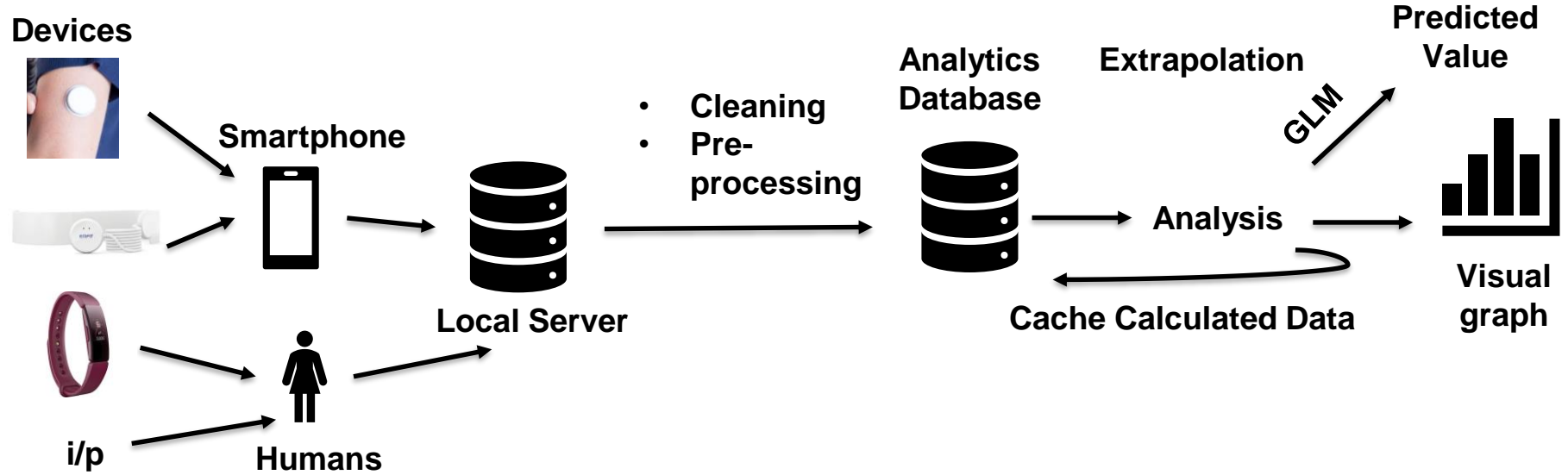
- Patient details (age, gender, condition)
- Blood Glucose
- Activity
- Diet
- Weather
- Mood



- Insulin dosage 
- Blood Glucose level for next few hours
- Activity
- Diet

Under the hood

What we did / achieved





Summarise / Advantages

- Patient-centric/specific
- Diet plan
- Activity plan
- Interoperability of data
- Reduce patient burden
- State of Art - AI



Activity Plan



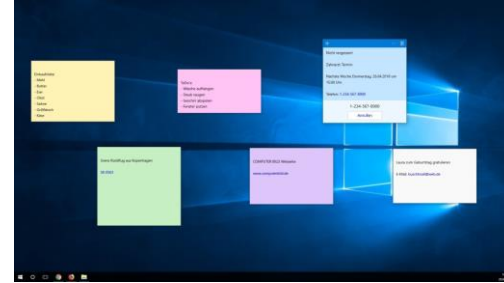
Diet Plan





Upcoming features

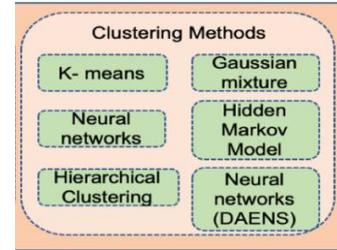
- Sticky notes on views
- Carbohydrates intake
- Views interactive, clickable
- Food info through photo



Future Roadmap



- Other Predictive analytics
- Larger data for validation
- Collaborating with other tools
- Extending to other disease
- Finding accelerator programs
- Data security and GDPR



Team - dataMosaic



Prabitha Urwyler
Researcher | BioMedical



Alex Kononov
Data Scientist



Maxim Popov
Data Scientist



Kamal Kannan
UX specialist



Aletta van Eeden
Health Coach



Victor
Media



Peter Hummel
UI specialist

Challenge

Merlin Mosaic

Measurement of casual factors

Solution – dataMosaic

Integrated data (glucose, diet, sleep, activity, mood) **visualisation and analysis (alarm, prediction)** to help Type 1 diabetes patients understand and manage their day-to-day activities, diet and insulin dosage.


Contact us – dataMosaic



Innovate in digital space

Join us

- Data Security
- Machine learning
- Regulatory
- Developers

Prabitha Urwyler 
purwyler@gmail.com

<https://2020.healthhack.solutions/project/72>

Hook: Low / High