StartVaardig

Team Motoric

Motoric Skills Development

Lisa Dumaij 19049838

Yuliya Litvin 20161417

Mustafa Mousa 18068987

Pascal Seegers 21132844

Joost van Viegen 18048757

Joep van der Zanden 19134282

Gross Motoric Skills

Gross Motoric Skills

StartVaardig

- Started in 2019
- Providing tools
- Value of motoric skills

Measurements & Tests

- Competence
- Motivation
- Perception
- Questionaires
- BMI

Research question

„ How can data science be used to predict whether a child has a chance of developing a lack in motor skills a year later? “

Data Preparation
Feature Selection
Splitting
Models
Evaluation
Research Paper

Progress

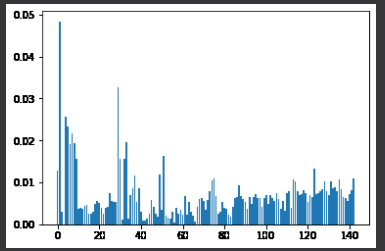
Data Preparation & Feature Selection

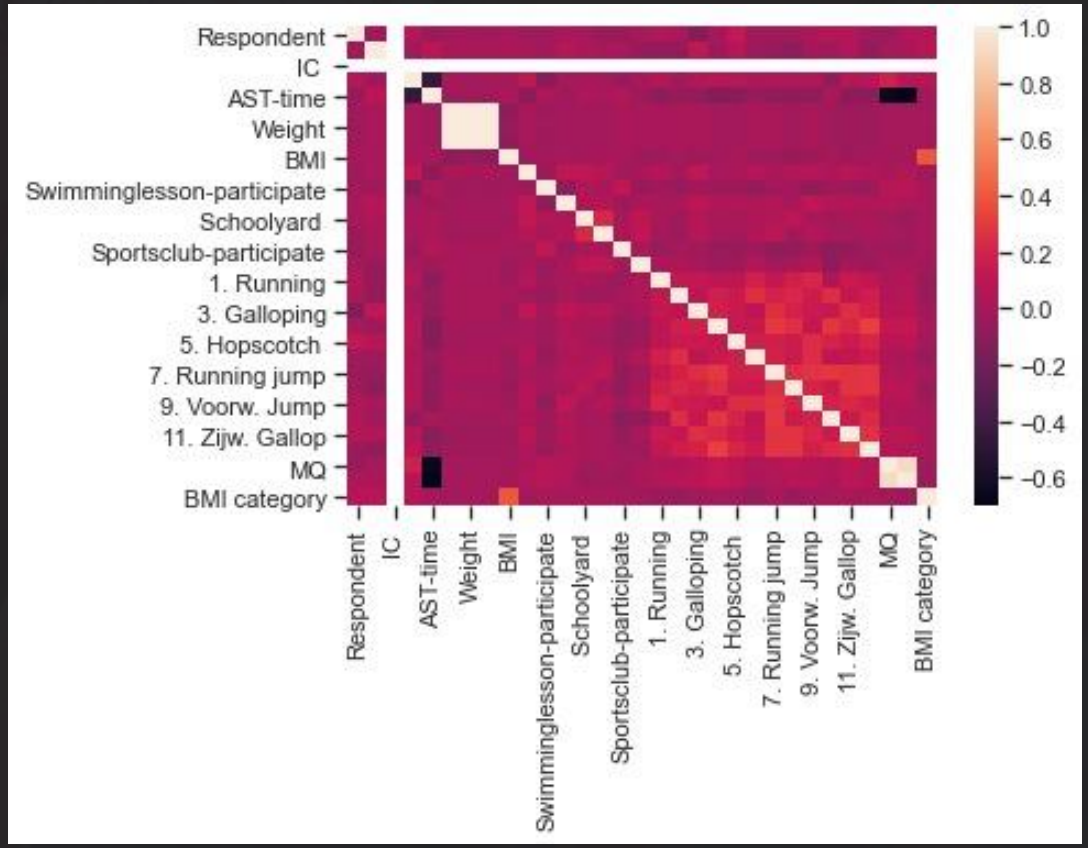
Data Preparation

- Basics
- Outliers
- Imputation
- Splitting

Feature Selection

- RandomForest
- Heatmap





Correlation

Models

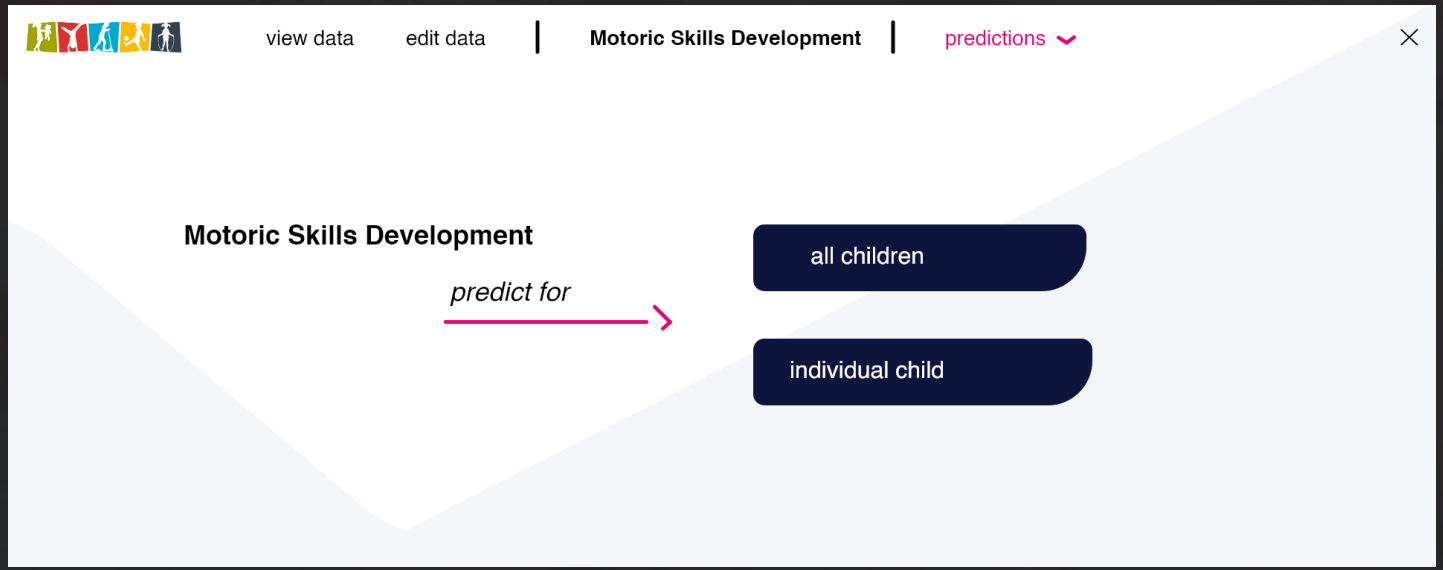
- KNN
- RandomForest
- Decision Tree
- Gradient Boosting Classifier
- Bagging Classifier

Evaluation

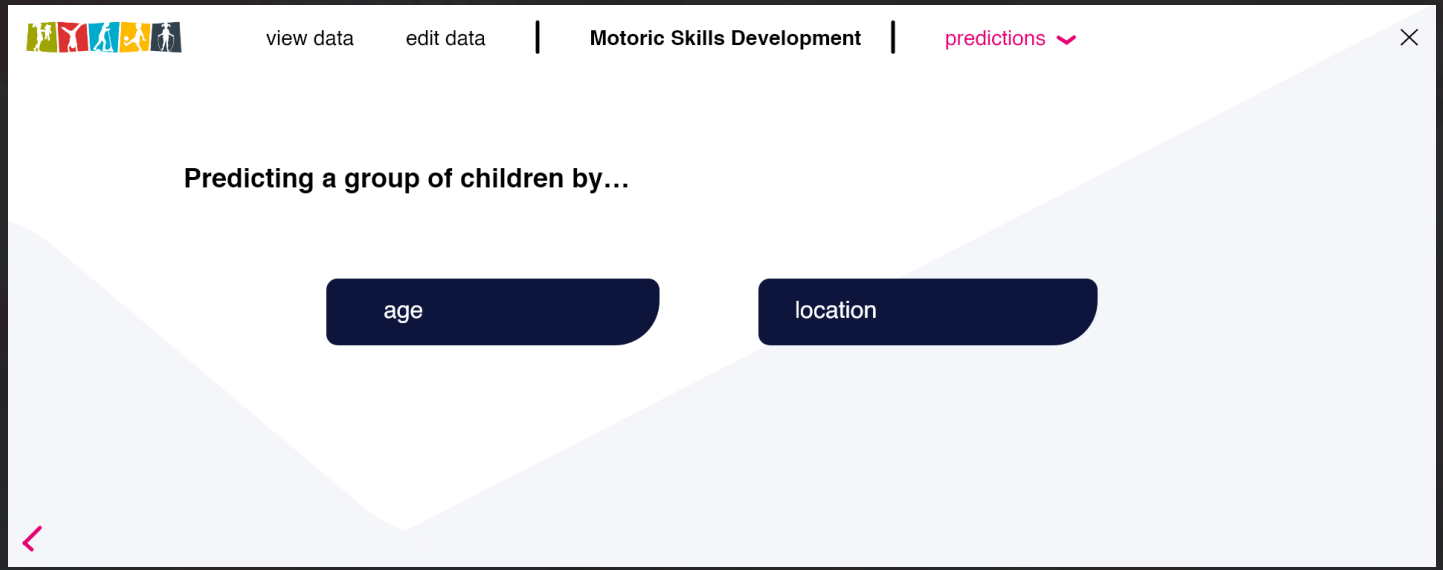
- Confusion Matrix
- False Negative Rate
- Precision-recall Curve

MODEL	FN RATE
Random forest	0.21
KNN	0.18
Decision Tree	0.19
Gradient Selecting Classifier	0.24
Bagging Classifier	0.24

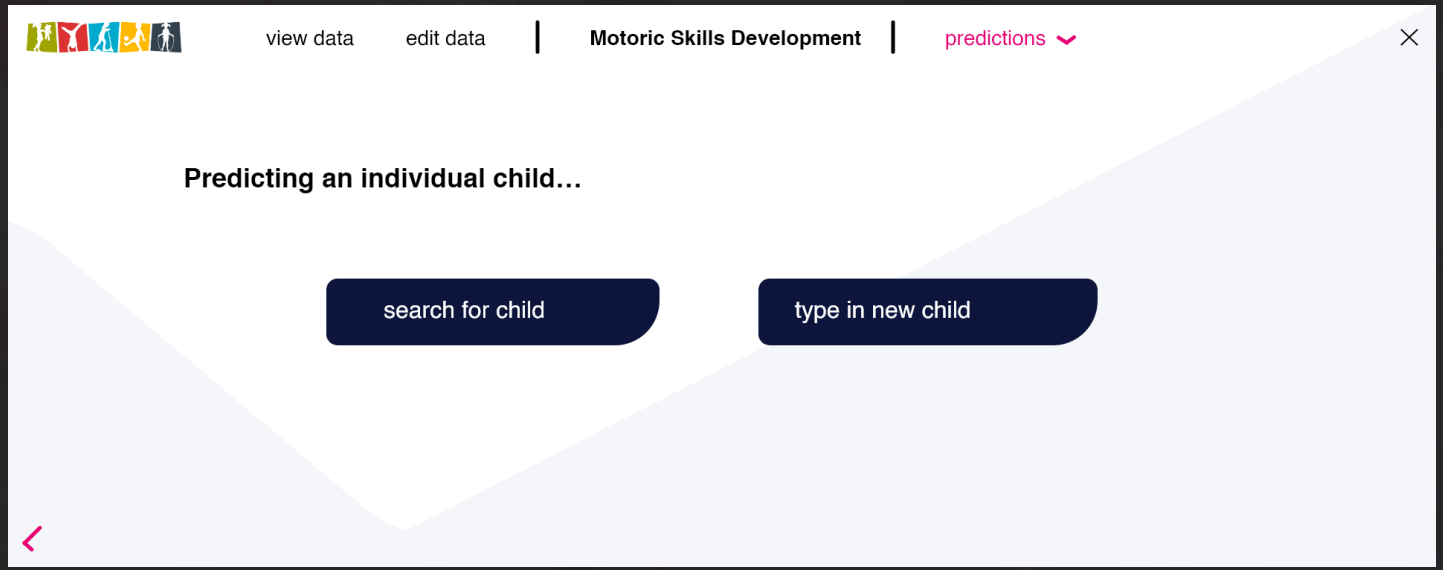
False Negative Rate



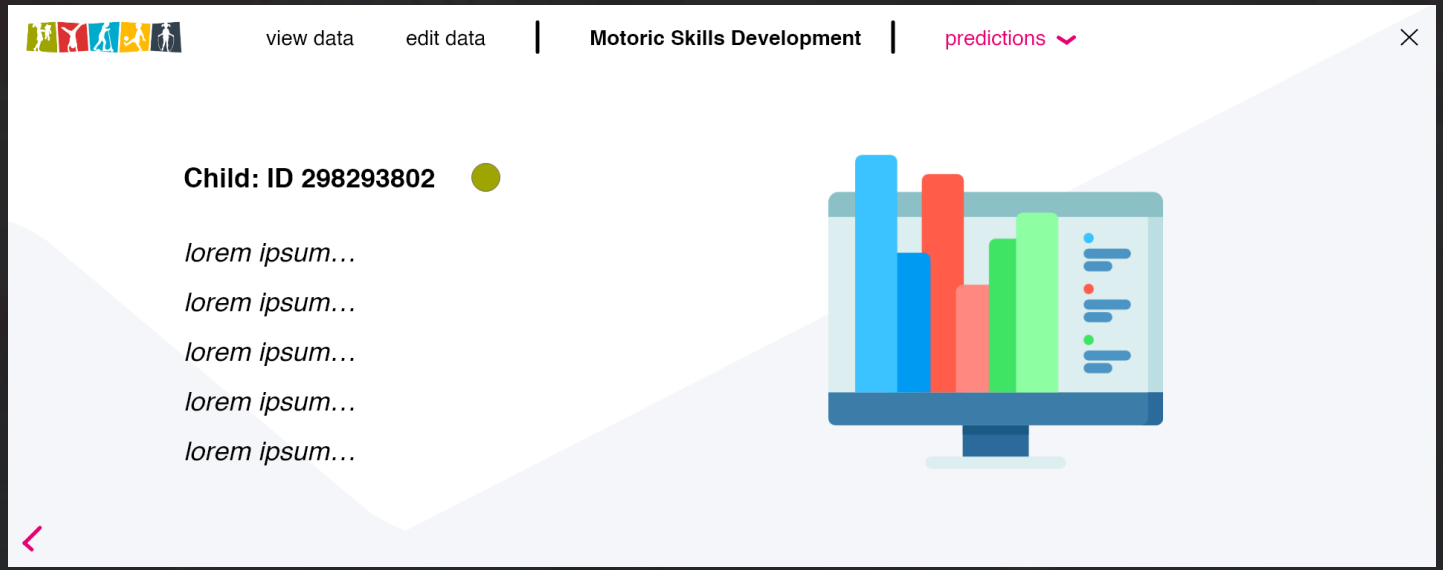
User Interface Prototype



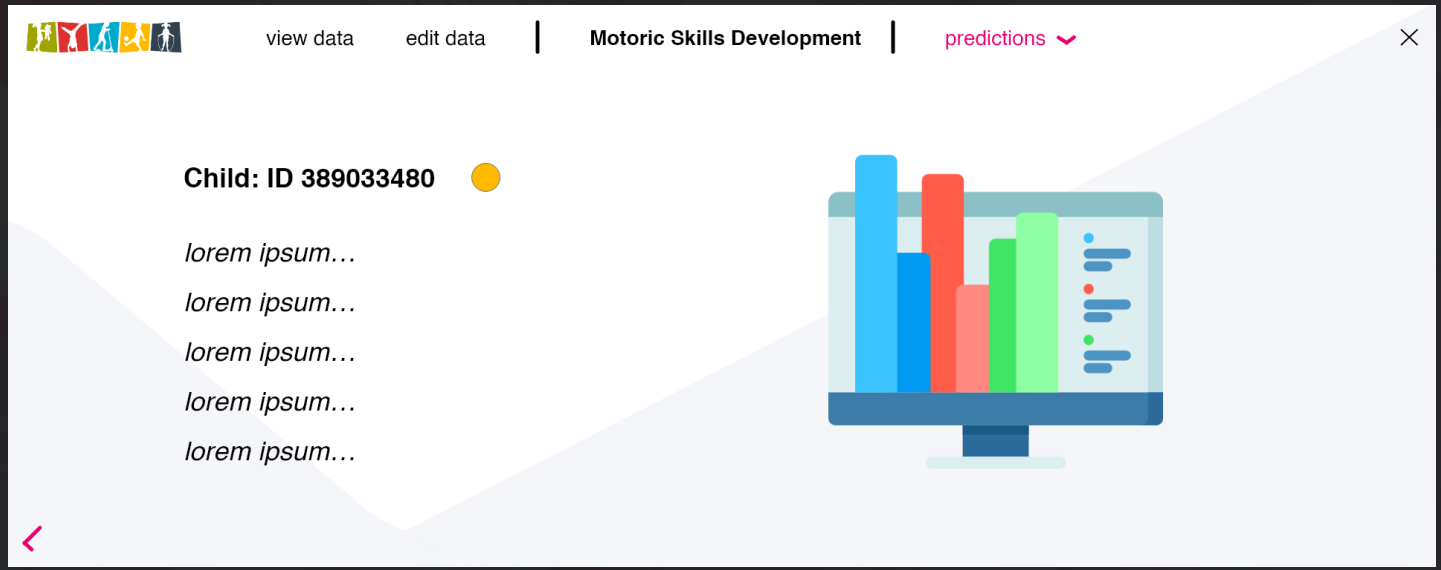
User Interface Prototype



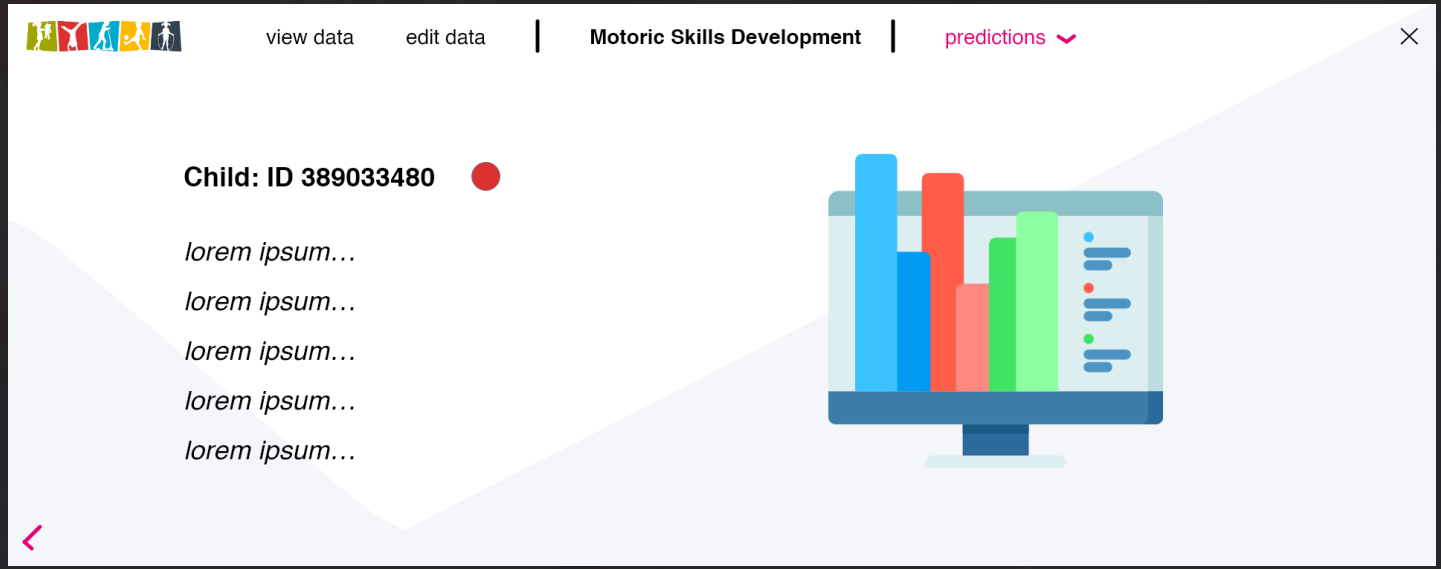
User Interface Prototype



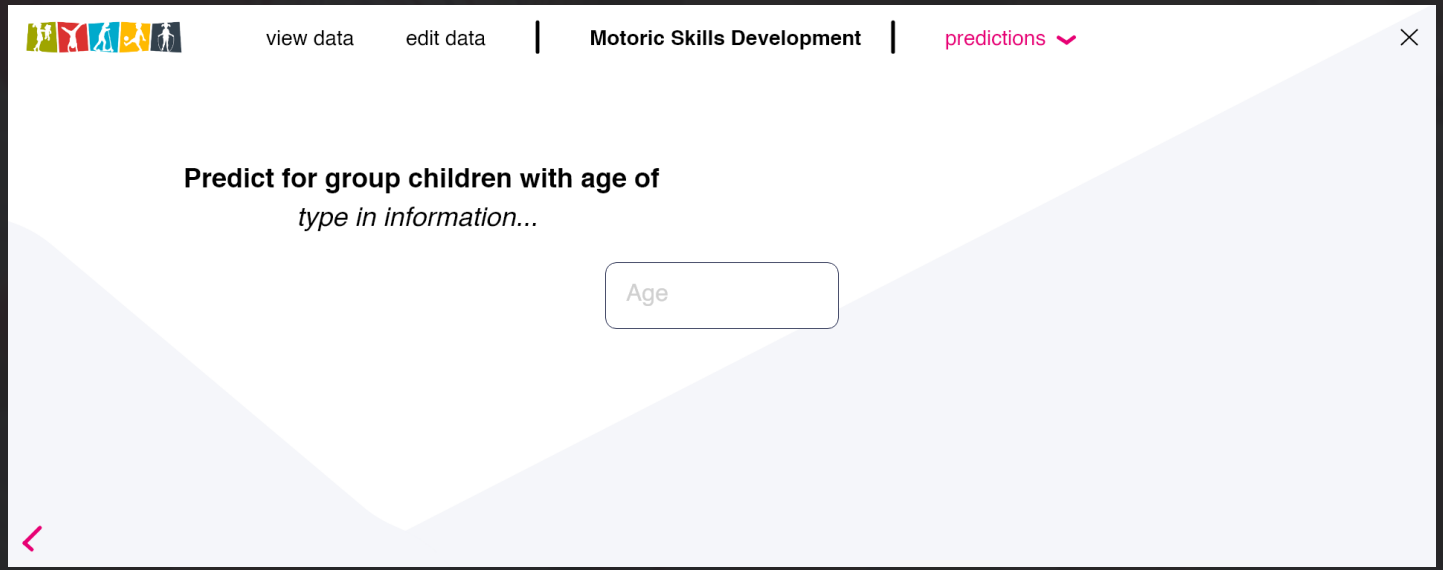
User Interface Prototype



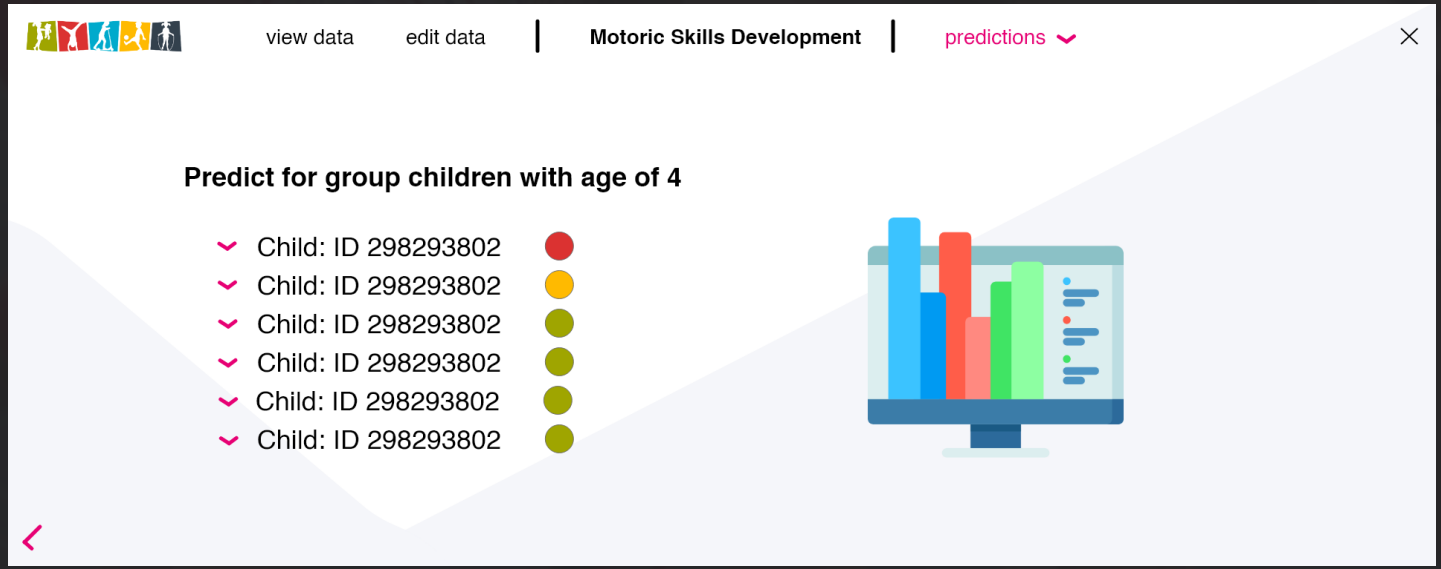
User Interface Prototype



User Interface Prototype



User Interface Prototype



User Interface Prototype

thank you !
Questions