

SmartToMe: Data Management Platform for Smart Home

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SmartToMe is the central data platform we create to manage data generated from various devices installed in Smart Home.

A device in Smart Home generates and sends data to its vendor's data storage portal, which typically is a cloud data repository. With Smart Home users' consent, SmartToMe can extract data from the vendor's cloud data repository and store in its own database.

SmartToMe is web based application using MongoDB as its backend database. It has a general data model to handle different data modalities and formats generated by various devices.

SmartToMe will provide longitudinal data tracking, visualization, and analytics with accumulative data extraction from vendor's data cloud.

SmartToMe will provide anonymous assistance for users to hide their personal information but still be able to locate their own data by uniquely generated key.

SmartToMe will provide interface and tools for researchers and care givers to explore and export data for research.