



Patent Search & Analysis Report (PSAR)

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Part - I : PATENT SEARCH TECHNIQUE USED

Patent Search Database Used : Google Patents
Keywords Used for Search : Synchronization of data,Collectin and sync data,dynamic syncronization
Search String Used : dynamic syncronization
Number of Results/Hits getting : 578,000

Part - II : BASIC DATA OF PATENTED INVENTION/BIBLIOGRAPHIC DATA

Category/Field of Invention : COMPUTER ENGINEER
Invention is Related to/Class of Invention : Synchronization of data
Title of Invention : SYSTEM TO DYNAMICALLY COLLECT AND SYNCHRONIZE DATA WITH MOBILE DEVICES
Patent No. : US 8,554,802B1
Application No. : 13/2691611
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Country	Patent No

Applicant for Patent is : Company



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- INVENTOR DETAIL

Name of Inventor	Address/City/Country of Inventor
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- APPLICANT/ASSIGNEE DETAIL

Name of Applicant/Assignee	Address/City/Country of Applicant
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Part - III : TECHNICAL PART OF PATENTED INVENTION

Limitation of Prior Technology/Art :

This invention relates to software, communications and methods to assess energy balance; obtain context information on actions and environment; and support individuals, their clinicians or other practitioners to promote a healthy lifestyle by managing Weight, diet, addiction and other behaviors. More specifically, the invention can be used to collect information and responses on food choices and intake, activity diaries, ratings of exertion, mood, companions and other input sought by researchers, clinicians, advisers or counselors.

Specific Problem Solved/Objective of Invention :

This invention allows a Researcher, to:
create and modify Surveys and Items for individual Participants or groups of Participants; create Prompts and Announcements that can be independent or associated With the Surveys; associate the Announcements and presentation of the Items With Triggers related to predetermined conditions; deploy the Surveys to Participant Devices; present the Surveys to the Participants on demand or in response to Triggers and gather Participant Responses; gather, organize and attach context to Prompts and Participant Responses; return the Participant Responses to a remote Server or database; organize and store the Participant Responses and present them to the Researcher and/or Participant or to predetermined algorithms for automated actions.

Brief about Invention :

The present invention is a system to allow a Researcher to easily and dynamically manage the collection and synchronization of data of various types from one or more Participants via a Participant Device, then to process, validate and review the returned data. For ease of understanding, examples in this description employ terminology from Javascript® for Android® on participant devices and on operations on a server use SQLite® and php script. One skilled in the art will be familiar With essentially equivalent operations and terminology used on other systems.

Key Learning Points :

The Server Database is a relational database such as provided by MySQL or Oracle. It stores data about the Participants and the study being conducted by the Researcher, Metadata about the data to be collected, and the data collected. In our implementation, the data is stored in tables that are in 3rd normal form and data integrity is enforced With foreign keys. An example of tables and structure for the Server Database. This example is for a study using Smartphones as the Participant Devices and collecting only Participant Response data. The Server Database will be customized, expanded or contracted for each study, depending on the data to be collected. Examples of data that could be collected include physical or physiologic sensor signals, Participant Responses, images, GPS data and audio notes or voice annotations by the Participant.

Summary of Invention :

The invention enables bi-directional mobile communication by researchers, clinicians or counselors With their patients and students. An exemplary application is ecological momentary assessment of psychological and physical status related to Weight management. The system may be combined With objective information to trigger a communication and enhance responses assessed on food choices, dietary intake, physical activity, exertion, mood and companions.

Number of Claims

: 29

Patent Status

: Published Application

How much this invention is related with your IDP/UDP?

: < 70 %



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Do you have any idea to do anything around the said invention to improve it? :

To synchronize data dynamically device should be constantly connected to network.