Claims

We Claim,

1. A method of slicing information into static and dynamic data for display on a smart wearable device connected to a mobile device, the method comprising:

   receiving, at the mobile device, event information from an application server, wherein, the event information is provided based on the selection provided by the user;

   segregating, at the mobile device, the event information into static and dynamic data, wherein the segregation is based on dynamicity of data, rate of change in data, and frequency at which new data values may become available;

   identifying, at the mobile device, at least one item of static data and at least one item of dynamic data from the event information, wherein the identified static and dynamic data are shared with a smart wearable device connected to the mobile device via a BLE or BL connection;

   creating, at the smart wearable device, at least one static data layer and one or more dynamic data layers, wherein the number of dynamic data layers is determined by the number of dynamic data items identified;

   identifying and comparing, by the mobile device, each new event activity data value received from the application server against corresponding existing stored data at the mobile device, and selectively transmitting only changed data values to update the static and dynamic data layers at the smart wearable device, thereby reducing data transmission over the BLE or BL connection; and

   creating, at the smart wearable device, a stack of dynamic data layers over the static data layer based on the updated data received.

2. The method of claim 1, wherein the event information comprises at least one of: event name, event location, event participants details, event activities, event milestones, and score data.

3. The method of claim 1, further comprising: notifying the user of an update to event information by activating at least one notification mechanism of the smart wearable device when at least one data layer is updated due to a new data value.

4. The method of claim 1, wherein receiving the event information at the mobile device comprises:

   managing, at the application server, at least one user-selected event and its associated event data received from an external server;

receiving, at the application server, event data and event updates in real time by means of a pull mechanism from the external server;

analyzing and categorizing, at the application server, the event data and event updates based on dynamicity and frequency of data reception; and

sending, by the application server, only event data and updates corresponding to user preferences and changes in event data values to the mobile device.

5. The method of claim 1, further comprising, prior to receiving the event information:

listing, at the mobile device, a plurality of available events for user selection, wherein the plurality of available events includes at least one of a sport name, an event name, or an event duration;

receiving, at the mobile device, one or more user event preferences corresponding to at least one of the listed events;

categorizing and prioritizing, at the mobile device, the plurality of available events based on the received user event preferences; and

storing, at the mobile device, a prioritized list of events and associated user preferences, wherein the prioritized list is used to filter event information received from the application server so that only event information relevant to the user event preferences is processed at the mobile device.

6. The method of claim 5, wherein listing a plurality of events comprises displaying for each event in the event list, all of: a sport name, an event name, and event duration.

7. A system for displaying event information on a smart wearable device using adaptive data layers, the system comprising:

a smart wearable device configured to receive sensor data from a plurality of sensors, create at least one static layer and one or more dynamic data layers based on dynamicity of data and frequency, wherein the number of dynamic data layers corresponds to the number of dynamic data items received, and wherein the dynamic data layers are stacked over the static data layer, receive notifications from a connected mobile device, trigger at least one notification to the user, and display at least one notification to the user;

a first network connecting the smart wearable device with the mobile device, wherein the first network is a Bluetooth Low Energy (BLE) or Bluetooth (BL) connection;

a mobile device configured to: receive user selections and preferences, segregate event information into static and dynamic data based on dynamicity and

rate of change, perform change detection by comparing new event data values with stored values, and selectively transmit only changed data values to the smart wearable device;

an application server configured to: receive real-time event activity data, analyze data based on dynamicity and frequency, and provide event data to the mobile device based on user preferences; and

a database configured to store user data, event data, preferences, and activity data.

8. The system of claim 7, further comprising:

an external server configured to provide event occurrence data;

a second network connecting the application server and external server; and

an external database storing event data and providing data to the external server, wherein the mobile device of the system is configured to reduce data transmission to the smart wearable device by selectively transmitting only changed data corresponding to updates in event information.