

## **Claims**

WE CLAIM:

1. A system (100) for generating notifications based on one or more queries associated with a user, the system (100) comprising:

a query input module (102) configured to receive one or more queries associated with a user, wherein the user inputs the one or more queries using at least one of a verbal communication means and a gesture means, characterized in that:

a natural processing engine (NLP) (104) configured to determine a meaning of the one or more queries received through the verbal communication means, wherein, natural processing engine (NLP) (104) comprises:

a voice to text converter (106) configured to transcribe spoken words by the user while speaking out the one or more queries, into text; and

a command meaning unit (108) configured to determine the meaning of the one or more queries based on the text determined by the voice to text converter (106), wherein the command meaning unit (108) prioritize the one or more words based on current and ongoing activities of the user and closest meaning pertaining to the query.

a gesture engine (110) configured to determine a meaning of the one or more queries received through the gesture means, and configured to identify gestures in relation to facial expressions, hand, and body movement of the user, wherein the gesture engine (110) comprises:

a pattern recognition engine (112) configured to identify one or more gestures pertaining to an action performed by the user, with respect to the one or more queries, wherein the pattern recognition engine (112) compares the identified gesture with stored gesture context in a database of the gesture engine (110); and

a gesture meaning unit (114) configured to determine the meaning of the one or more queries, based on the gesture identified by the pattern recognition engine (112), wherein once the gestures are matched with the gesture stored in the database, then the gesture meaning unit (114) correlates the database image with commands and pattern recognition engine (112), to determine the command or word matching the database image for determining the meaning of the gesture inputted by the user;

a unit (116) in communication with one or more data sources, wherein the unit (116) receives the meaning of the one or more queries determined from the at least one of the NLP engine (104) and the gesture engine (110), and the unit (116) is capable of identifying

suitable keywords and prioritizing subject keywords for selecting relevant data sources closest to meaning of the query and, wherein the unit (116) comprises:

- a data source identification block (122) configured to receive meaning of one or more queries determined from at least one of the NLP engine (104) and the gesture engine (110), wherein, the data source identification module is capable of identifying one or more data sources which relate to the at least one of the meaning of the query determined based on the user's input, wherein, the data source is differentiated into internal and external data, whereas, internal data pertains to user data and external data pertains to curated information from internet;

- a trigger point definition unit (124) configured to identify one or more trigger points relating to the identified data source and meaning of query received;

- a relationship definition unit (126) configured to determine a logical relationship between the one or more identified trigger points by relating subject query;

wherein the unit (116) is configured to supply identified data sources, trigger points and logical relationships as computed between the trigger points;

an execution unit (200) in communication with the unit (116), receives identified data sources, trigger points and logical relationships, comprises:

- data sources (204) configured to collect data related to one or more queries associated with the user;

- trigger generation unit (206) configured to generate plurality trigger points pertaining to the associated data sources; and

- logical sequence block (208) configured to receive all generated trigger points, wherein the execution unit (200) is configured to:

- process contextual data from the identified data sources (204) in relation to one or more trigger points;

- evaluate the logical relationship between the one or more trigger points considering the identified data sources and logic previously configured by the unit (116);

- create one or more events when the logical relationship evaluation is successful;
  - communicate the one or more events to an electronic device associated with the user; and

- generate one or more notifications pertaining to the one or more events generated.

2. A method for generating notifications based on one or more queries associated with a user, the method comprising:

receiving, by a query input module (102), one or more queries associated with a user, wherein the user inputs the one or more queries using at least one of a verbal communication means and a gesture means, characterized in that,

determining, by a natural processing engine (NLP) (104), a meaning of the one or more queries received through the verbal communication means, wherein, natural processing engine (NLP) (104) comprise, a voice to text converter (106) and a command meaning unit (108), wherein,

transcribing spoken words by the user, by the voice to text converter (106), while speaking out the one or more queries, into text and

determining the meaning of the one or more queries, by the command meaning unit (108), based on the text determined by the voice to text converter (106), wherein the command meaning unit (108) identifies and prioritize the one or more words based on current and ongoing activities of the user, frequent use, repetition, and closest meaning pertaining to the query;

determining, by a gesture engine (110), a meaning of the one or more queries received through gesture means, and identifying, by a gesture engine (110), gestures in relation to facial expressions, hand, and body movement of the user and the gesture engine (110) comprises, a pattern recognition engine (112) and gesture meaning unit (114), wherein,

identifying, by a pattern recognition engine (112), one or more gestures pertaining to an action performed by a user corresponding to one or more queries, wherein the pattern recognition engine (112) compares the identified gesture with stored gesture context in a database of the gesture engine (110); and

determining, by a gesture meaning unit (114), the meaning of the one or more queries in the form of words, based on the gesture identified, wherein once the gestures are matched with the gesture stored in the database, then the gesture meaning unit (114) correlates the database image with commands and pattern recognition engine (112), to determine the command or word matching the database image for determining the meaning of the gesture inputted by the user, wherein one or more words are identified and prioritized based on current and ongoing activities of the user frequent use, repetition, and closest meaning pertaining to the query;

receiving, by a unit (116), the meaning of the one or more queries determined from at least one of the NLP engine (104) and the gesture engine (110), and the unit (116) in communication with one or more data sources, wherein, the unit (116) is capable of identifying suitable keywords and prioritizing subject keywords for selecting relevant data sources closest to meaning of the query and wherein the unit (116) comprises, a data source identification unit (122), trigger point definition unit (124) and relationship definition unit (126), wherein,

receiving, by the data source identification unit (122), the meaning of one more queries determined from at least one of the NLP engine (104) and the gesture engine (110), and identifying one or more data sources which relate to the at least one of the meaning of the query determined based on the user's input, wherein, the data source is differentiated into internal and external data, whereas, internal data pertains to user data and external data pertains to curated information from internet;

identifying, by the trigger point definition unit (124), one or more trigger points relating to the identified data source and meaning of query received;

determining, by the relationship definition unit (126), a logical relationship between the one or more trigger points by relating the subject query;

wherein, supplying identified data sources, trigger points and logical relationships as computed between the trigger points, by the unit (116), to the execution unit (200);

receiving, by the execution unit (200), the identified data sources, trigger points and logical relationships from unit (116), wherein, the execution unit comprise, data sources (204), trigger generation unit (206) and logical sequence block (208), wherein,

collecting data, by the data sources (204), in relation to one or more queries associated with the user;

generating, by the trigger generation unit (206), plurality of trigger points pertaining to the associated data sources; and

receiving, by the logical sequence block, all generated trigger points, wherein, the execution unit (200) is capable of,

processing contextual data from the identified data sources in relation to one or more trigger points;

evaluating the logical relationship between the one or more trigger points considering the identified data sources and logic previously configured by the unit (116) and

creating one or more events when the logical relationship evaluation is successful;

communicating the one or more events to an electronic device associated with the user and

generating one or more notifications pertaining to the one or more events generated.

3. The method as claimed in claim 2, wherein the one or more queries are received through verbal communication means, gesture means, or a combination of verbal communication means and gesture means.