Claims

We claim:

1. A method of operating a home automation system, the method comprising:

detecting, by a detecting unit (504), presence of one or more smart devices paired to the home automation system;

receiving, by a receiving unit (508), a request to control said home automation system from one or more detected smart devices;

performing, by a processing unit (510), an authentication check to ensure that the request to control is received from an authorized smart device, characterised in that:

determining, by the processing unit (510), a home automation policy for each of the one or more of detected smart devices on authentication, wherein said home automation policy comprises a plurality of instructions to control one or more home devices associated with said home automation system;

detecting, by a location determining unit (518), a location of said one or more of detected smart devices;

determining by the location determining unit (518), a frequency of the detected first device near a predetermined location;

locating by the location determining unit (518), the one or more home devices near the predetermined location;

selecting, by a selecting unit (512), at least one home automation policy based on said determining and on detected location, wherein selected at least one home automation policy is configured to trigger a change in operation and control settings of said one or more of home devices, wherein the selecting process includes of selecting, by the selecting unit (512), the home automation policy of the one or more home devices located near the predetermined location in accordance with the home automation policy associated with the first device; and

controlling, by a controlling unit (516), operation of said one or more of home devices in accordance with changed operation settings in accordance with selected home automation policy.

2. The method as claimed in claim 1, further comprising:

associating a first smart device from said one or more smart devices to a first user;

configuring at least one application within the first smart device; and

controlling operation of said one or more of home devices using the at least one application.

3. The method as claimed in claim 2, further comprising:

generating, by a profile builder, a plurality of profiles of the first user, wherein each profile has a corresponding operational setting for the one or more home devices;

selecting, by the selecting unit (512), at least one profile from the plurality of profiles of the first user; and updating the home automation policy in accordance with the selected profile of the first user.

4. The method as claimed in claim 1, wherein performing an authentication check comprises:

sending and matching, by the processing unit (510), a unique randomly generated onetime password to a registered mobile number associated with one or more detected smart devices; and

declining, by the processing unit (510), the request on account of failure in the authentication check.

5. The method as claimed in claim 1, further comprising:

defining a priority hierarchy list comprising the one or more detected smart devices; and

selecting the at least one home automation policy as per a priority level of the one or more detected smart devices in the priority hierarchy list.

6. The method as claimed in claim 1, further comprising:

determining, by the selecting unit (512), a first home automation policy for a first detected smart device and a second home automation policy for a second detected smart device respectively, wherein the first smart device is associated with a first user and a second device is associated with a second user;

defining, by the selecting unit (512), a new home automation policy using the first home automation policy and the second home automation policy; and

controlling, by the selecting unit (512), operation of said one or more of home devices in accordance with the common home automation policy.

7. The method as claimed in claim 1, further comprising:

determining priorities associated with the first user and the second user; and selecting the first home automation policy when the priority of the first user is greater than the priority of the second user.

8. The method as claimed in claim 1, wherein the triggering change in operation settings of said one or more home devices comprises one or more of:

switching, by the triggering unit (524), the operation settings associated with default home automation policy to the selected home automation policy; and

switching, by the triggering unit (524), the operation settings associated with home automation policy associated with a first smart device to operation settings associated with home automation policy associated with a second smart device.

9. The method as claimed in claim 1, further comprising:

monitoring, by a monitoring unit, said one or more home devices;

notifying, by a notification engine, a user of one or more detected smart devices in event of occurrence of at least one of abnormal operation of said one or more home devices, data values pertaining to said one or more home devices reaching a pre-defined threshold; and

recommending, by a recommendation engine (522), the user with one or more action items to be taken in the event of occurrence of abnormal operation of said one or more home devices or data values pertaining to said one or more home devices reaching the pre-defined threshold.

10. The method as claimed in claim 9, further comprising:

receiving an input from a user to update the pre-defined threshold values pertaining to said one or more home devices.

11. The method as claimed in claim 1, further comprising:

monitoring one or more environmental parameters surrounding said one or more home devices;

modifying operation settings associated with said one or more home devices based on said monitoring; and

notifying user of the modification made to the operation settings associated with said one or more home devices.

12. The method as claimed in claim 1, further comprising:

receiving manual operational setting from a user of the one or more home devices to control the operations of the one or more home devices.

13. A home automation system comprising:

a detecting unit (504) configured for detecting presence of one or more smart devices (102) paired to the home automation system;

a receiving unit (508) configured for receiving a request to control said home automation system from one or more detected smart devices (102);

a processing unit (510) configured for authenticating one or more detected smart devices (102) and determining a home automation policy associated with said one or more of detected smart wearable devices (102) on authentication, wherein said home automation policy is configured to control one or more home devices associated with said home automation system;

a location determining unit (518) configured for detecting a location of said one or more of detected smart devices, wherein the location determining unit (518) further configured to

determine a frequency of the detected first device near a predetermined location;

locate the one or more home devices near the predetermined location;

a selecting unit (512) configured for selecting home automation policy based on said determining on detected location, said home automation policy being stored in a home automation policy module (506) and configured for controlling said one or more home devices associated with said home automation system, wherein the selecting unit (512) configured for selecting the home automation policy of the one or more home devices located near the predetermined location in accordance with the home automation policy associated with the first device;

a triggering unit (524) configured for triggering change in operation and control settings of said one or more of home devices in accordance with the selected at least one home automation policy; and

a controlling unit (516) configured for controlling operation of said one or more of home devices in accordance with changed operation settings in accordance with selected home automation policy.

14. The system as claimed in claim 13, further comprising:

a profile builder configured to generate a plurality of profiles of the first user, wherein each profile has a corresponding operational setting for the one or more home devices; and wherein the selecting unit (512) is configured to select at least one profile from the plurality of profiles of the first user; and update the home automation policy in accordance with the selected profile of the first user.

15. The system as claimed in claim 13, further comprising:

a priority hierarchy list comprising the one or more detected smart devices; wherein the selecting unit is configured to select the at least one home automation policy as per a priority level of the one or more detected smart devices in the priority hierarchy list.

16. The system as claimed in claim 13, wherein the selecting unit (512) is configured to:

determine a first home automation policy for a first detected smart device and a second home automation policy for a second detected smart device, wherein the first smart device is associated with a first user and a second device is associated with a second user; and

define a common home automation policy using the first home automation policy and the second home automation policy;

control operation of said one or more of home devices in accordance with the common home automation policy.

17. The system as claimed in claim 13, wherein the triggering unit (524) is configured to perform at least one of:

switch the operation settings associated with default home automation policy to selected home automation policy; and

switch the operation settings associated with home automation policy associated with a first smart device to home automation policy associated with a second smart device.

18. The system as claimed in claim 13, further comprising:

a monitoring unit for monitoring said one or more home devices;

a notification engine for notifying a user of one or more detected smart devices (102) in event of occurrence of at least one of abnormal operation of said one or more home devices, data values pertaining to said one or more home devices reaching a pre-defined threshold; and

a recommendation engine (522) for recommending the user with one or more action items to be taken in the event of occurrence of abnormal operation of said one or more home devices or data values pertaining to said one or more home devices reaching pre-defined threshold.