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(57) Abstract :

The present disclosure provides a system 200 for collection of pharmaceutical items, where the system 200 comprises a plurality of boxes 100 adapted to receive and store the pharmaceutical items, wherein each of the plurality of boxes 100 comprises multiple sections 104, of pre-defined dimensions, for facilitating storage of the pharmaceutical items, and a camera 102 configured with each of the plurality of boxes 100 for capturing one or more images. The system 100 comprises an IoT enabled microcontroller with an alphanumeric keypad 106, which is coupled with the camera 102. The microcontroller is configured to identify the pharmaceutical items from the captured one or more images, corresponding compute a number of each of the pharmaceutical items in each of the plurality of boxes, and provide access, to an entity, of at least one of the plurality of boxes in order to facilitate storage of the pharmaceutical items.

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