WHAT IS CLAIMED IS:

1. A smart container system having a plurality of containers, said container having a shape of a rectangular box; a rack disposed in an internal space of the container; a container-enlarging unit disposed outside the container to enlarge the internal space; an input-output unit disposed in one face of the container-enlarging unit facing the entrance; and an unmanned truck reciprocally moving between the container and the container-enlarging unit through the internal space;

wherein one face of the container-enlarging unit, crossing the entrance of the container, is open, and

the containers and the container-enlarging units are stacked in stages in a vertical direction and arrayed in rows in a horizontal direction, and are arranged such that the internal spaces of the stages are shared through the open faces.

2. The smart container system according to claim 1, wherein an inner conveyor unit is disposed in a lower stage of the internal spaces of the container-enlarging units,

the smart container system further comprising a central control device in an upper stage of the internal spaces, with a charger of the unmanned truck being provided in the central control device.

3. The smart container system according to claim 2, further comprising a lift disposed in a lower stage and an upper stage of the internal spaces defined in the container-enlarging units to hoist and lower the unmanned truck.

4. The smart container system according to claim 3, wherein the lift comprises:

vertical guide rails defining a hoistway between the upper stage and the lower stage of the internal spaces;

a lift shaft erected in a central portion of the hoistway; and

a lift platform moving up and down along the vertical guide rails using an electric hoisting motor disposed on the lift shaft.

5. The smart container system according to claim 1, wherein the input-output unit comprises:

a pair of openings spaced apart from each other; and

a door unit disposed in an internal space of the container-enlarging unit to open and close the openings.

6. The smart container system according to claim 1, further comprising an inner conveyor unit disposed in the internal space of the container-enlarging unit to transport goods when the goods are input or output via the input-output

unit.

7. The smart container system according to claim 6, further comprising a movable outer conveyor unit connected to the inner conveyor unit via the input-output unit.