THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A system for the cultivation and growth of plants comprising of:

an enclosure for enclosing an environment and a plant within the environment;

one or more environment conditioners for controlling one or more conditions of the environment;

a plurality of sensors for sensing the one or more conditions; and

a controller for:

receiving measurements of the one or more conditions from at least one sensor;

producing an output based on a comparison between the measurements and one or more corresponding values of a desired growing environment; and

controlling at least one environment conditioner based on the output.

2. The system of claim 1, wherein controlling the at least one environment conditions based on the output comprises controlling one or more environment conditioners so that the one or more conditions is dynamically regulated within one or more corresponding ranges.

3. The system of claim 1, wherein "one or more conditions" is defined as at least one of light, temperature, humidity, carbon dioxide (CO_2) level, pH, nutrient water and/or spray frequency.

4. The system of claim 3, wherein the environmental condition is defined by humidity, temperature and light cycle.

5. The system of any one of claims 1 to 4, wherein each of the corresponding ranges is a value for at least one of light, temperature, humidity, carbon dioxide (CO_2) level, pH, nutrient water and/or spray frequency.

6. The system of claim 1, wherein the enclosure is configured to employ high pressure aeroponics technology, and at least one of the environment conditions defined in claim 3 and 4 comprises the production of a spray within the environment.

7. The system of claim 1, wherein the controller comprises an interface using buttons or a touch screen configured to allow a user to:

adjust the one or more environmental conditions; and/or

identify the desired growing environment.

8. The system of claim 7, wherein the controller comprises:

a receiver located at the enclosure; and

a mobile application on a remote device, the remote device comprising a transmitter for transmitting the output from the mobile application to the receiver.

9. The system of claim 8, wherein the controller is remotely accessible via a local area network (LAN) or using Near Field Communication (NFC).

10. The system of claim 1, wherein the controller is configured to push the measurements to a cloud platform to perform analysis and tune the environmental conditions based on the measurements.

11. The system of any one of claims 1 to 10, further comprising an image capture device for capturing an image of the plant, the controller being configured to determine at least one of:

a growth phase of the plant; and

a condition of the plant.

12. The system of claim 11, wherein the controller is configured to identify the desired growing environment based on the growth phase and/or condition of the plant.

13. The system of any one of claims 1 to 13, wherein the controller is selectively controllable to:

vary the one or more conditions from the one or more corresponding values;

detect growth of the plant; and

update one or more corresponding values based on the detected growth.

14. The system of any one of claims 1 to 13, wherein the controller is configured to receive at least one of:

a genus or species of the plant placed in each position in the enclosure; and

a season to be reproduced within the environment, and

to update the controller and environmental conditioners based on the genus or species, or the season.

15. The system of claim 1, wherein the enclosure comprises means for receiving and retaining at least one plant genus or species.

16. The system of claim 15, wherein the at least one plant genus or species is delivered as any one of seeds, hardened tissue culture, in an enclosed box, on a micro-fleece cloth and a nutrient rich growth medium, or in capsules.

17. The system of any one of 1 to claim 16, wherein a base of the enclosure is configured for stacking atop a like enclosure.

18. The system of any one of 1 to claim 17, wherein a top of the enclosure is configured for receiving thereon a like enclosure.

19. A method for cultivating plants comprising;

placing a plant within an enclosure for enclosing an environment;

controlling one or more conditions of the environment by using at least one environment conditioner;

sensing one or more conditions with at least one sensor; and

using a controller for;

receiving measurements of the one or more conditions from the at least one sensor;

producing an output based on a comparison between the measurements and one or more corresponding values of a desired growing environment; and

controlling the at least one environment conditioner based on the output.

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A system for the cultivation and growth of plants comprising;

an enclosure for enclosing an environment and a plant within the environment;

at least one environment conditioner for controlling one or more conditions of the environment;

a plurality of sensors for sensing the one or more conditions; and

a controller for:

receiving measurements of the one or more conditions from the at least one sensor;

producing an output based on a comparison between the measurements and one or more corresponding values of a desired growing environment; and

controlling each environment conditioner based on the output.

2. The system of 1, wherein controlling each environment conditioner based on the output comprises controlling each environment conditioner so that the one or more conditions is maintained within a threshold of one or more corresponding values.

3. The system of 1, wherein each condition is one of light, temperature, humidity, carbon dioxide (CO_2) level, pH, nutrient water and/or spray frequency.

4. The system of 3, wherein the environmental condition is defined by humidity, temperature and light cycle.

5. The system of any one of 1 to 4, wherein each said corresponding value is a value for at least one of light, temperature, humidity, carbon dioxide (CO_2) level, pH, nutrient water and/or spray frequency.

6. The system of 1, wherein the enclosure is configured to employ aeroponics technology, and the at least one environment condition comprises a fogger for producing a spray within the environment.

7. The system of 1, wherein the controller comprises an interface configured to allow a user to:

adjust the one or more conditions; and/or

identify the desired growing environment.

8. The system of 7, wherein the controller comprises:

a receiver located at the enclosure; and

a mobile application on a remote device, the remote device comprising a transmitter for transmitting the output from the mobile application to the receiver.

9. The system of 8, wherein the controller is remotely accessible via a local area network (LAN).

10. The system of 1, wherein the controller is configured to push the measurements to a cloud platform.

11. The system of any one of 1 to 10, further comprising an image capture device for capturing an image of the plant, the controller being configured to determine at least one of:

a growth phase of the plant; and

a condition of the plant.

12. The system of 11, wherein the controller is configured to identify the desired growing environment based on the growth phase and/or condition of the plant.

13. The system of any one of 1 to 12, wherein the controller is selectively controllable to:

vary the one or more conditions from the one or more corresponding values;

detect growth of the plant; and

update one or more corresponding values based on the detected growth.

14. The system of any one of 1 to 13, wherein the controller is configured to receive at least one of:

a genus or species of the plant; and

a season to be reproduced within the environment, and

to update the controller and each environment conditioner based on the genus or species, or the season.

15. The system of claim 1, wherein the enclosure comprises means for receiving and retaining at least one plant genus or species.

16. The system of 15, wherein the at least one plant genus or species is delivered as any one of seeds, hardened tissue culture, in an enclosed box, on a micro-fleece cloth and a nutrient rich growth medium, or in capsules.

17. The system of any one of 1 to 16, wherein a base of the enclosure is configured for stacking atop a like enclosure.

18. The system of any one of 1 to 17, wherein a top of the enclosure is configured for receiving thereon a like enclosure.

19. A method for cultivating plants comprising;

placing a plant within an enclosure for enclosing an environment;

controlling one or more conditions of the environment by using at least one environment conditioner;

sensing one or more conditions with at least one sensor; and

using a controller for;

receiving measurements of the one or more conditions from the at least one sensor;

producing an output based on a comparison between the measurements and one or more corresponding values of a desired growing environment; and

controlling the at least one environment conditioner based on the output.