CLAIMS

1. A furniture assembly system, comprising:

- a plurality of panels, wherein each panel comprises a plurality of engaging apertures of a right-angle cross shape arranged in one or more rows and one or more columns, with each engaging aperture being separated from an adjacent engaging aperture at a predetermined distance,

- at least one top panel comprising a plurality of lock-down apertures,

- at least one support member, wherein the or each support member comprises at least a first interaction edge and a second interaction edge connectable to the panel, and a third interaction edge connectable to the top panel, the first interaction edge and the second interaction edge being substantially perpendicular to the third interaction edge, and

wherein each of the first interaction edge and the second interaction edge comprises at least one hook joint shaped and sized to be insertable into the engaging aperture of the panel and to extend beyond the panel forming a cantilevered projection, the third interaction edge comprises one or more protruding portions shaped and sized to fit in the plurality of lock-down apertures of the top panel.

2. A furniture assembly system according to claim 1, further comprising a plurality of locking members, the locking member is shaped and sized to fit into the engaging aperture to secure the support member on the panel.

3. The furniture assembly system according to claim 1 or 2, wherein the panel further comprises a plurality of auxiliary apertures for receiving an attachment means.

4. The furniture assembly system according to any one of the preceding claims, further comprising one or more accessories attachable to the panel and/or top panel.

5. The furniture assembly system according to any one of the preceding claims, wherein the top panel is configured to weave in a flexible material to form a support surface.

6. The furniture assembly system according to any one of the preceding claims, wherein the first interaction edge and the second interaction edge of the or each support member comprises two or more said hook joints configured to be coupled to into two or more said engaging apertures on the panel.

7. The furniture assembly system according to any one of the preceding claims, wherein components of the furniture assembly system are customizable by an end-user.

8. An assembled furniture piece made from components of a furniture assembly system, comprising:

- a first panel and a second panel forming two opposing side surfaces of the furniture piece, wherein each panel comprises a plurality of engaging apertures of a right-angle cross shape arranged in one or more rows and one or more columns, with each engaging aperture being separated from an adjacent engaging aperture at a predetermined distance,

- a first support member and a second support member perpendicularly disposed with respect to the first panel and/or the second panel, each of the first support member and the second support member being connected to the first panel along a first interaction edge and being connected to the second panel along a second interaction edge, and

- a top panel forming a top surface of the furniture piece, the top panel being connected to the first support member along a third interaction edge of the first support member and connected to the second support member along a third interaction edge of the second support member.

9. The assembled furniture piece of claim 8, further comprising a plurality of locking members, each locking member being coupled to an engaging aperture where the hook joint on the first or the second interaction edge of the support member is inserted so as to secure the support member on the panel.

10. The assembled furniture piece of claim 8 or 9, further comprises one or more accessories attached to the panel.

11. The assembled furniture piece of any one of claims 8 to 10, wherein a flexible material is woven into the top panel to form a support surface.

12. The assembled furniture piece of any one of claims 8 to 11, wherein components of the assembled furniture piece are customizable by an end-user.

13. A panel of a furniture assembly system, comprising:

a plurality of engaging apertures of a right-angle cross shape arranged in one or more rows and one or more columns, and each engaging aperture is separated from an adjacent engaging aperture at a predetermined distance,

wherein the panel is configured to connect to a support member, the support member comprising a first interaction edge and a second interaction edge connectable to the panel, and

wherein each of the first interaction edge and the second interaction edge comprises at least one hook joint shaped and sized to be insertable into the engaging aperture of the panel and to extend beyond the panel forming a cantilevered projection.