

What is claimed is:

1. A system for computer-aided design of an object, an article, or a consumer good, comprising:

an application server hosting a design software application; and
a web server providing a website interface for accessing the design software application, wherein the design software application comprises a design module, a test module, a user interface display module, a social media module, a commerce module, and one or more predetermined criteria,

wherein the design module is configured to:

receive from a first user via the website displayed on a first computer a first input comprising a first modification to an existing design template of the object, the article, or the consumer good,

receive from a second user via the website displayed on a second computer a second input comprising a second modification to the existing design template,

compare the first and second inputs to the one or more predetermined criteria,

modify by the design module the existing design template based on the first and second modifications and the comparison to generate a modified design template of the object, the article, or the consumer good if it satisfies the one or more predetermined criteria, and

wherein the user interface display module is configured to display three-dimensional views of the existing and modified design template.

2. The system of claim 1, further comprising a 3-D printer configured to fabricate the object, the article, or the consumer good, based on the modified design template.

3. The system of claim 1, wherein the design software application is further configured to display the modified design template or information contained in the modified design template by the social media module to elicit feedback from other users of the design software application.

4. The system of claim 1, wherein the design software application is further configured to output the modified design template or information contained in the modified design template by the social media module to elicit feedback from web users.

5. The system of claim 1, wherein the design software application is further configured to evaluate the modified design template or information contained in the modified design template based on the one or more predetermined criteria.

6. The system of claim 5, wherein the evaluation of the modified design template or information contained in the modified design template includes determining whether the modified design template or information contained in the modified design template complies with government regulations or industry standards.

7. The system of claim 5, wherein the evaluation of the modified design template or information contained in the modified design template includes determining whether parts designed to interlock actually fit together.

8. The system of claim 5, wherein the evaluation of the modified design template or information contained in the modified design template includes modeling a virtual object, article, or consumer good, based on the modified design template or information contained in the modified design template and simulating an effect of an external force on the virtual object, article, or consumer good.

9. The system of claim 8, wherein the external force includes gravity or a wind force.

10. The system of claim 9, wherein the simulated effect includes determining whether the wind force will cause a harmonic oscillation of the virtual object, article, or consumer good.

11. The system of claim 5, wherein the modified design template or information contained in the modified design identifies at least one material to fabricate the object, the article, or the consumer good, and the evaluation of the modified design template or information contained in the modified design includes evaluating at least one material.

12. The system of claim 11, wherein the evaluation of the one or more materials includes evaluating the one or more materials based on strength, cost or compatibility with other materials included in the modified design template or information contained in the modified design template.

13. The system of claim 5, wherein the design software application is further configured to store the predetermined criteria and evaluate a second modified design template based on the predetermined criteria.

14. The system of claim 1, wherein the design software application further includes an interface for a web user or industry representative to purchase or license the design, or for the first or second user of the design software application to sell or license the design to a different web user or industry representative.

15. The system of claim 1, wherein the design software application includes an interface for a web user to purchase or sell the object, the article, or the consumer good fabricated based on the modified design template.

16. A non-transitory computer readable storage medium comprising a design software application having a design module, a test module, a user interface display module, a social media module, and a commerce module, and one or more predetermined criteria,

wherein the design module is configured to:

receive from a first computer system operated by a first user a first input comprising a first modification to an existing design template of an object, an article, or a consumer good;

receive from a second computer system operated by a second user a second input comprising a second modification to the existing design template;

compare the first and second inputs to the one or more predetermined criteria,

modify by the design module the existing design template based on the first and second modifications and the comparison to generate a modified design template of the object, the article, or the consumer good if it satisfies the one or more predetermined criteria, and

wherein the user interface display module is configured to display three-dimensional views of the existing and modified design template.

17. The computer readable storage medium of claim 16, wherein the application is further configured to output the modified design to a 3-D printer configured to fabricate the object, the article, or the consumer good based on the modified design template.

18. A method of manufacturing an object, and article, or a consumer good, the method comprising:

providing an application server hosting a design software application;

providing a web server website interface for at least a first user and a second user to access the design software application using respective first and second computers, wherein the design software application includes a design module, a test module, a user interface display module, a social media module, a commerce module, and one or more predetermined criteria, wherein the user interface display module is configured to display three-dimensional views of an existing and a modified design template of the object, the article, or the consumer good;

receiving from the first user via the website displayed on the first computer a first input comprising a first modification to the existing design template for creating a new design of the object, the article, or the consumer good;

receiving from the second user via the website displayed on the second computer a second input comprising a second modification to the existing design template;

comparing the first and second inputs to the one or more predetermined criteria; and

modifying by the design template the existing design template based on the first and second modifications and the comparison to generate the modified design template of the object,

the article, or the consumer good if it satisfies the one or more predetermined criteria.

19. The method of claim 18, further comprising:
outputting the modified design template to a 3-D printer configured to fabricate the object, the article, or the consumer good based on the modified design template.

20. The system of claim 1, wherein the existing design template and the modified design template comprise information useful in fabricating one of an automobile part, an article of clothing, and a household appliance.