CLAIMS

1. A computerized system for generating dynamic websites, the computerized system comprising:

a memory storing instructions; and

at least one processor configured to execute the instructions to perform operations comprising:

receiving an order from a customer device, the order comprising at least one product for delivery, an order time, and a destination address;

determining whether the destination address is eligible for delivery by a first time;

based on determining the destination address is eligible, searching a first database to retrieve information of the at least one product, the first database associating a plurality of products with cutoff times for delivery by the first time;

based on the order time and the cutoff time, generating a user interface element indicating whether delivery by the first time is possible, the user interface element being configured to modify a website displayed in the customer device;

searching a second database to locate the destination address and an associated first restriction preventing delivery by the first time, the first restriction comprising at least one of an access code, delivery instructions, or limited time window for delivery by the first time;

based on determining that the second database contains the destination address associated with the first restriction, generating the user interface element to comprise a selectable element based on the first restriction, the selectable element comprising an input field for providing instructions allowing delivery by the first time;

sending the user interface element to the customer device;

initiating a timer to an expiration time associated with the cutoff time when receiving an acknowledgement from the customer device;

responsive to sending the user interface element to the customer device, receiving a response; and

based on the received response, modifying an entry in a third database to indicate a promised delivery date for the at least one product is the first time, the third database storing instructions captured via the user interface element.

2. The computerized system of claim 1, wherein the first time is determined by:

identifying fulfillment centers based on the destination address;

requesting available inventory from identified fulfillment centers;

selecting a fulfillment center from the identified fulfillment centers based on a match between corresponding available inventory and the at least one product; and

determining a cutoff time associated with the first time based on an estimate expiration, the estimate expiration comprising an order expiration time after which delivery by the first time is no longer available.

3. The computerized system of claim 1, wherein the operations further comprise:

receiving, in response to sending the user interface element, a request to not deliver the at least one product by the first time; and

modifying the second database to associate the destination address with a second restriction.

4. The computerized system of claim 3, wherein the operations further comprise:

based on determining that the second database contains the destination address associated with the second restriction, generating the user interface element comprising a non-selectable element disallowing future deliveries by the first time.

5. The computerized system of claim 1, wherein the operations further comprise:

receiving feedback from a mobile device associated with a delivery worker, the feedback being associated with the destination address; and

based on the received feedback, modifying the second database to associate the destination address with the first restriction.

6. The computerized system of claim 1, wherein the operations further comprise:

based on determining that the destination address is not eligible for delivery of products by the first time, generating the user interface element comprising an indication against delivery by the first time.

7. The computerized system of claim 1, wherein

the user interface element further indicates a remaining time for delivery within the first time; and

the website comprises a single display page comprising an image of the at least one product, a text description associated with the at least one product, an icon indicating whether delivery by the first time is possible, and an interactive icon displaying the remaining time.

8. The computerized system of claim 1, wherein the operations further comprise

determining whether the order time falls in a weekend or holiday; and

in response to determining the order time falls in a weekend, retrieving from the first database information for weekend delivery.

9. The computerized system of claim 1, wherein

the input field comprises a field to enter instructions to enable entry to the destination address; and

the user interface element comprises a pop up window configured to be displayed over the website.

10. A computer-implemented method for generating dynamic websites, the computer-implemented method comprising

receiving an order from a customer device, the order comprising at least one product for delivery, an order time, and a destination address;

determining whether the destination address is eligible for delivery by a first time;

based on determining the destination address is eligible, searching a first database to retrieve information of the at least one product, the first database associating a plurality of products with cutoff times for delivery by the first time;

based on the order time and the cutoff time, generating a user interface element indicating whether delivery by the first time is possible, the user interface element being configured to modify a website displayed in the customer device;

searching a second database to locate the destination address and an associated first restriction preventing delivery by the first time, the first restriction comprising at least one of an access code, delivery instructions, or limited time window for delivery by the first time;

based on determining that the second database contains the destination address associated with the first restriction, generating the user interface element to comprise a selectable element based on the first restriction, the selectable element comprising an input field for providing instructions allowing delivery by the first time;

sending the user interface element to the customer device;

initiating a timer to an expiration time associated with the cutoff time when receiving an acknowledgement from the customer device;

responsive to sending the user interface element to the customer device, receiving a response; and

based on the received response, modifying an entry in a third database to indicate a promised delivery date for the at least one product is the first time, the third database storing instructions captured via the user interface element.

11. The computer-implemented method of claim 10 further comprising:

identifying fulfillment centers based on the destination address;

requesting available inventory from identified fulfillment centers;

selecting a fulfillment center from the identified fulfillment centers based on a match between corresponding available inventory and the at least one product; and

determining a cutoff time associated with the first time based on an estimate expiration, the estimate expiration comprising an order expiration time after which delivery by the first time is no longer available.

12. The computer-implemented method of claim 10 further comprising:

receiving, in response to sending the user interface element, a request to not deliver the at least one product by the first time; and

modifying the second database to associate the destination address with a second restriction.

13. The computer-implemented method of claim 12 further comprising:

based on determining that the second database contains the destination address associated with the second restriction, generating the user interface element comprising a non-selectable element disallowing delivery by the first time in future deliveries.

14. The computer-implemented method of claim 10 further comprising:

receiving feedback from a mobile device associated with a delivery worker, the feedback being associated with the destination address; and

based on the received feedback, modifying the second database to associate the destination address with the first restriction.

15. The computer-implemented method of claim 10 further comprising:

based on determining that the destination address is not eligible for delivery of products by the first time, generating the user interface element comprising an indication against delivery by the first time.

16. The computer-implemented method of claim 10, wherein

the user interface element further indicates a remaining time for delivery within the first time; and

the website comprises a single display page comprising an image of the at least one product, a text description associated with the at least one product, an icon indicating whether delivery by the first time is possible, and an interactive icon displaying the remaining time.

17. The computer-implemented method of claim 10 further comprising:

determining whether the order time falls in a weekend or holiday; and

in response to determining the order time falls in a weekend, retrieving from the first database information for weekend delivery.

18. A non-transitory computer-readable medium storing instructions that, when executed by a processor, perform operations for generating a dynamic website, the operations comprising:

receiving an order from a customer device, the order comprising at least one product for delivery, an order time, and a destination address;

determining whether the destination address is eligible for delivery by a first time;

based on determining the destination address is eligible, searching a first database to retrieve information of the at least one product, the first database associating a plurality of products with cutoff times for delivery by the first time;

based on the order time and the cutoff time, generating a user interface element indicating whether delivery by the first time is possible, the user interface element being configured to modify a website displayed in the customer device;

searching a second database to locate the destination address and an associated first restriction preventing delivery by the first time, the first restriction comprising at least one of an access code, delivery instructions, or limited time window for delivery by the first time;

based on determining that the second database contains the destination address associated with the first restriction, generating the user interface element to comprise a selectable element comprising an input field for providing instructions allowing delivery by the first time;

sending the user interface element to the customer device;

initiating a timer to an expiration time associated with the cutoff time when receiving an acknowledgement from the customer device;

responsive to sending the user interface element to the customer device, receiving a response; and

based on the received response, modifying an entry in a third database to indicate a promised delivery date for the at least one product is the first time, the third database storing instructions captured via the user interface element.