User Stories

1. Authentication: As any user of the system (customer, administrator), I want to have a personal account with a username and a password so that I can keep any layout preferences and other options.
2. Authentication: As any user of the system (customer, administrator), I want to have a way to recover my password in case I forget it or it gets stolen.
3. Authorization: As an administrator, I want to limit the permissions of customers or lower tier administrators so that the information is not overbearing or no privileged information shows.
4. Debugging: As an administrator, I want to display errors, logs, and statuses so that I can fix any issues that arise.
5. BPM*: As a business analyst, I want a business process model so that I can see the flow of business processes and improve the business objective (eg: increase process speed, increase quality, reduce costs).
6. As a client or administrator, I want to have a log of my previous visits so that I review what I previously did and to see if my account has been compromised.
7. As a supply manager, I want a cart option when purchasing manufactured products to keep a backlog of orders and quickly purchase them when necessary.
8. As a client and an administrator, I want tooltips on the icons so that I can know what a specific icon means by hovering over it.
9. As a client, I want a help page so if I get an error message during my usage of the system I can properly act and not waste time contacting help officials.
10. As a customer, I want a rating system so that I can communicate how I feel about a product.
11. As a customer, I want a sharing feature so that I can show my friends on different social media the product that I visited.
12. As a customer, I want a customer help desk so that I can get direct answers to any questions that cannot be answered using the help page.
13. As a user of the system, I want the system to load in under 5 seconds when using localhost, and under 10 seconds when using the cloud service so that I am not annoyed at the time delay and so I do not lose customers.
14. As a customer, I want the system to work well on any common screen resolution so that I can use the system on any mobile device.
15. As a system developer, I want the model-view-controller design pattern so that multiple sections of the system can be developed simultaneously.

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* BPM: Business Process Model, more information can be found at site:
"https://en.wikipedia.org/wiki/Business_Process_Model_and_Notation"
BPM tools: "https://en.wikipedia.org/wiki/List_of_BPMN_2.0_engines"

16. As a system developer, I want at least 50% of test coverage in the Controller classes of the MVC design pattern so that a majority of the interface works properly and is not buggy.
17. As a customer, I want to be notified by email about any actions performed on my account such as, purchasing, signing up, or changing password so that I can have a permanent record of my account activities.
18. As a customer, I want the concurrent sessions to be safe so that if I perform a persistent action on one view, then refresh the other one, it should be updated with the new information.
19. As a business manager, I want data logging on both the database level and the application level to support audit trails.
20. As a customer, I want support for multiple concurrent sessions so that I can have two pages open at once for example view a product as well as check out my cart at the same time.
21. As a database manager, I want sensitive data to be encrypted so that no information can identify a user if it is leaked.
22. As a database, I want a CAPTCHA tool so there the server does not get overloaded with requests all at the same time.
23. As a database, I want a user to be restricted in logging in, if they fail to successfully log into an account 3 times.
24. As a database, I want a user to be logged out after 30 minutes of inactivity so that the server does not have stale users holding the system.
25. As a database manager, I want the database to be importable and exportable to an external file so that it is easy to insert new data and to parse through the information.
26. As a database manager, I want to be able to export to pdf or email so that it is easy to communicate what I am seeing on my screen.
27. As a database manager, I want persistent storage to follow the create-read-update-delete (CRUD) format so that it is easier to access information in the database.
28. As an administrator, I want to create a material list so that I can track parts that are needed to assemble a product.
29. As an administrator, I want to track an inventory item so that I am aware of the number of items remaining at a location.
30. As a developer of the system, I want to use Docker Hub so that it is easy for users to download our product.
31. As a database manager, I want the accounts password to be encrypted so that personal accounts are not compromised if it is leaked.
32. As a system developer, I want Travis-CI to be implemented in the system so that new code added can be tested automatically.

33. As a system developer, I want Jest to be implemented in the system so that I can do unit testing on individual functions and not only system testing.
34. As a database, I want to be able to support multiple currencies and currency conversion so that each user can purchase items in their proper currency.
35. As a database, I want to be able to allow the user to select specific attributes so that they can define a product.
36. As a database, I want to be able to support process driven work-flow messaging to allow different activities to be triggered by pre-configured business rules.