Functional Requirements

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| Requirement ID | Statement |
| FR01 | Upon opening the website, the user shall see a homepage displaying best-seller products sold by the store along with a sign up/sign in button. |
|  | Each item will be composed of the following data:   * Name * Category * Description * Image * Brand * Price * Discount percentage if any |
| FR02 | Upon clicking on the sign up button, the user shall see a sign up page including personal information asked by the sign up page. These personal information fields are:   * E-mail * Password * Address |
| FR03 | The E-mail field should validate the following:   * Check if the Email exists and is valid * Check if the Email has never been used before for creating an account * Validate the account using a One Time Password(OTP) sent to the Email entered. Upon valid OTP, the registration is approved. * Otherwise, the registration is rejected and no account is created. |
| FR04 | The password field should adhere to secure password requirements |
| FR05 | Upon clicking on the sign in button, the user shall be prompted with two fields asking him to input his/her E-mail and password. |
| FR06 | The user shall view the products using the following categories:   * All items * Best-seller products * Type/Brand of candy |
| FR07 | There will be a search bar allowing the user to search for a specific product/brand. |
| FR08 | Upon logging in, the user will be able to add products to his/her shopping cart. |
| FR09 | The shopping cart shall have the following properties:   * Allows the user to change a product’s quantity, or remove an item * Validates that the quantity of a single sealed item is bound within a maximum of 50 units. * Validates that the weight of a single loose item is bound within a maximum of weight of 50 kilograms |
| FR10 | There will be a separate web page dedicated for the purchases of gift cards. |
| FR11 | In the checkout, there will be the following payment options:   * Cash On Delivery (COD) - can be used to pay for an order (or the remaining amount if any) * Smart Wallets – can be used to pay for an order (or the remaining amount if any) * One or more gift vouchers – the value of this/these vouchers shall be subtracted from the total sum. * Loyalty points can be redeemed to pay for an order or a part of an order. |
| FR12 | If Cash on Delivery (COD) is selected, the user should enter a valid phone number which is verified by a One Time Password (OTP) sent to the user to be entered to the system for successful verification. |
| FR13 | Upon a successful purchase, the user shall earn loyalty point according to the scheme decided by the admin. |
| FR14 | After successful payment, the user will be prompted to choose whether to use the shipping address on his/her profile or to enter another address. |
| FR15 | In the shopping cart, there shall be an option called ‘reorder’. Upon clicking on the reorder button, the user will be prompted to re-order the previous order with the same quantities. |
| FR16 | In the user profile, there will be a category called ‘Order History’. This will enable the user to view all of the his/her previous order activity/history. |
| FR17 | The system administrator will have a dedicated page to be able to manage items in the following ways   * Update catalogue with new items * Cancel items * Update item information |
| FR18 | The system administrator will have a dedicated page to view the following information about the system:   * Order made by users * Statistics about the following:   + Daily sales   + Monthly sales   + Sales of each time in a given period of time   + Most popular products |
| FR19 | The system administrator will have the privileges to do the following each in a dedicated page:   * Set a loyalty points scheme * Suspend a user |

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| Non-functional req id | Statement |
| Performance | Every panel should take about 3 seconds to load |
| Scalability | The site should support up to 1000 simultaneous users without experiencing a drop in performance |
| Resource usage | -The website shouldn’t use more than 50 mb of the memory  - system must consume less than 2% of the CPU’s time when run on a 1.8GHz machine under a certain operating system. |
| Maintainability | -The code should be well-organized and easy to understand, with clear documentation. -The site should be tested regularly to ensure that it is working properly. |
| Reliability | The server shouldn’t suffer more than one failure in 4 month. |
| availability | The site should be available 95% of the time and it’s down time shouldn’t exceed 20 mins in 20 years span |
| Recovery from failure | The system should be recovered within 12 hours of failure |
| Computing platform | The website should be working on every browser on every operating system |
| Development process | Our approach in the development should be agile |