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| --- | --- | --- | --- | --- |
| ID | Title | Description | Rational | Dependencies |
| F1 | Login | The admin should be able to enter inside the system after entering email and password | To maintain the security and confidentiality of the system | NA |
| F2 | Registration | Registration for the new user who don’t have email and password | To register the new user | F1 |
| F3 | Add product | Admin should be able to add the product | To add the product record of stock management system | F1 |
| F4 | Add brand | User should be able to add the brand | To add the brand record of stock management system | F1 |
| F5 | Add category | Admin should be able to add the category | To add the category record of stock management system | F1 |
| F6 | Add customer | Admin should be able to add the customer | To add the customer record of stock management system | F1 |
| F7 | Add user | Admin should be able to add the user | To add the user record of stock management system | F1 |
| F8 | Update the customer | Admin should be able to update the customer | To update the customer record of stock management system | F6 |
| F9 | Update the brand | Admin should be able to update the brand | To update the brand record of stock management system | F4 |
| F10 | Update the category | Admin should be able to update the category | To update the category record of stock management system | F5 |
| F11 | Update the product | Admin should be able to update the product | To update the product record of stock management system | F3 |
| F12 | Update the user | Admin should be able to update the user | To update the user record of stock management system | F7 |
| F13 | Delete the brand | Admin should be able to delete the brand | To delete the brand record of stock management system | F4 |
| F14 | Delete the category | Admin should be able to delete the category | To delete the category record of stock management system | F5 |
| F15 | Delete the customer | Admin should be able to delete the customer | To delete the customer record of stock management system | F6 |
| F16 | Delete the user | Admin should be able to delete the user | To delete the user record of stock management system | F7 |
| F17 | Delete the product | Admin should be able to delete the product | To delete the product record of stock management system | F3 |

**Functional requirements**

**Non Functional requirements**

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| ID | Title | Description |
| NF1 | Reliability | The system should be reliable and should perform all the functions. |
| NF2 | Usability | The system should be useable as the user should be able to use the system properly and use the available function. |
| NF3 | Implementation | The system should be able to work or perform the function smoothly and effectively. |
| NF4 | Performance | The system performance should be better so that it should response every inputs of the user. |
| NF5 | Security | The system should be able to maintain the security and not letting to enter the unauthorized user inside the system. |

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| --- | --- | --- | --- |
| ID | Requirement | MoSCoW | Rational |
| R1 | Login | Must have | Security and authentication for user |
| R2 | Registration | Must have | Register the user in the system |
| R3 | Add product | Must have | Fundamental function of the system |
| R4 | Add brand | Must have | Fundamental function of the system |
| R5 | Add category | Must have | Fundamental function of the system |
| R6 | Add user | Must have | Fundamental function of the system |
| R7 | Update the customer | Should have | Fundamental function of the system |
| R8 | Update the brand | Should have | Fundamental function of the system |
| R9 | Update the category | Should have | Fundamental function of the system |
| R10 | Update the product | Should have | Fundamental function of the system |
| R11 | Update the user | Should have | Fundamental function of the system |
| R12 | Delete the brand | Could have | Fundamental function of the system |
| R13 | Delete the category | Could have | Fundamental function of the system |
| R14 | Delete the customer | Could have | Fundamental function of the system |
| R15 | Delete the users | Could have | Fundamental function of the system |
| R16 | Delete the product | Could have | Fundamental function of the system |
| NFR1 | Reliability | Must have | Fundamental function of the system |
| NFR2 | Usability | Must have | Fundamental function of the system |
| NFR3 | Implementation | Must have | Fundamental function of the system |
| NFR4 | Performance | Must have | Fundamental function of the system |
| NFR5 | Security | Must have | Fundamental function of the system |

**Requirement prioritization**

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| --- | --- | --- |
| Classes | Functionality | Attributes |
| Sign In, brand, category, product, customer, bill | Add brand, edit brand, add category, edit category, add product, edit product, add customer, edit customer, generate bill, print bill | Email, password, brand\_name, category\_name, product\_name, qty, rate, customer\_name, customer\_address, phone, bill\_date |

Configuration management

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| --- | --- | --- | --- | --- | --- | --- |
| S. No | Risk type | Risks | Likelihood | Consequences | Impact | Solution |
| 1 | Technical | Loss of data | 2 | 2 | 4 | To avoid the data loss, it should be kept in the drive like for the backup. |
| 2 |  | Server failure | 1 | 2 | 2 | Sometime the server can fail while doing the project. For prevention the security and backup should be maintained. |
| 3 |  | Data theft | 2 | 3 | 6 | To avoid from data theft, should maintain the  tide security to data with different methods  like data encryption, etc. |
| 4 |  | Threat on the system | 2 | 2 | 4 | Updating or scanning the system should be done time to time so that it will work smoothly. |
| 5 | Non-technical | Lack of planning | 2 | 4 | 8 | The proper planning should be done to avoid the problems that may arise in the future. |
| 6 |  | Insufficient resources | 2 | 4 | 8 | Collect the required resources for the project. |
| 7 |  | Lack of budget | 2 | 3 | 6 | Do the proper use of budget and separate the little more budget for project. |