**Requirements Specification (RS)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Requirement** | **Essentialor Desirable** | **Description of the Requirement** | **Remarks** |
| RS1 | The system should have a login | Essential | A login box should appear when the system is invoked. | The logins are assigned by the store manager. Login user is email id of the customer |
| RS2 | The system should have a login registration form | Essential | The login request would be send to Sore manager for approval. On approval an email should be sent automatically to the customer email id | Only approved registrations are valid users of system |
| RS3 | The screens visible to user should be role based | Essential | Once the user authentication is the based on the role of a user in this system the screens should be different | UI should be role based |
| RS4 | Dark and Light mode switching | Essential | Dark and Light mode using a button | UI element |
| RS5 | All components of dashboard visible to use according to role | Essential | Elements on the side bar visible to user according to roles | Essential |
| RS6 | Calendar to give admin and manager a place to plan. | Essential | Calendar element for admin and manager to plan the month | UI Element |
| RS7 | Store manager must be able to see the purchase history of customer wise, item wise | Essential | Ad hoc query by store manager | Query run in the background |
| RS8 | Store manager should be able to see purchase history in specified time duration | Essential | Ad hoc query by store manager | Query run in the background |
| RS9 | Store manager should be able to see total sell till date and between 2 days | Essential | Ad hoc query by store manager | Query run in the background |
| RS10 | Store Manager should be able to see the performance of the employees | Essential | Backend DB Query | Query run in the background |
| RS11 | Incentives given to the Employees according to their performance | Essential | Financial Query | Query run in the background |
| RS12 | Products reviews and ratings according to their demand and popularity | Essential | Ad hoc query | Query run in the background |
| RS13 | Store Managers can track Employees as well as Customers. | Essential | Ad hoc Query | Query run in the background |
| RS14 | Transactions and users and employees can be added or removed as required | Essential | Ad hoc Query | Query run in the background |

**Database Fields Specification**

All tables those are required for application.

Affiliate Stats

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Field Name** | **Range of valid values for the field** | **Remarks** |
| 1 | Item id | 1 to 1000 | This is the key field of the database as it is unique for an item . |
| 2 | User id | Up to 15 characters in length. | Special characters like underscore are allowed. |
| 3 | Affiliate Sales | 1 to 1000 | Foreign key |

Transaction

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Field Name** | **Range of valid values for the field** | **Remarks** |
| 1 | transaction id | 1 to 1000 | Unique id per transaction, is same as receipt number |
| 2 | Affiliated | Up to 30 characters in length. |  |
| 3 | Cost | 1 to 1000 |  |
| 4 | products | 1to 1000 |  |

Product Stat

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Field Name** | **Range of valid values for the field** | **Remarks** |
| 1 | id | 1 to 10000 | Unique id per order, is same as receipt number |
| 2 | productid | 1 to 1000 | auto number |
| 3 | yearlySalesTotal | 1 to 1000 |  |
| 4 | yearlyToatalSoldUnits | datetime |  |
| 5 | year | 1 to 1000 |  |
| 6 | monthlyData | 1to10000 |  |
| 7 | dailyData | 1to 1000 |  |

OverallStats

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Field Name** | **Range of valid values for the field** | **Remarks** |
| 1 | id | 1 to 10000 | Unique id per puchase order |
| 2 | yearlySalesTotal | 1 to 1000 | auto number |
| 3 | yearlyTotalSoldUnits | 1 to 1000 | Foreign key |
| 4 | Year |  |  |
| 5 | monthlyData |  |  |
| 6 | Dailydata |  |  |
| 7 | totalCustomers |  |  |
| 8 | salesByCategory |  |  |

User

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Field Name** | **Range of valid values for the field** | **Remarks** |
| 1 | \_id | 1 to 10000 | Unique id per puchase order |
| 2 | Email | 1 to 1000 | auto number |
| 3 | Name | 1 to 1000 | Foreign key |
| 4 | Password |  |  |
| 5 | City |  |  |
| 6 | State |  |  |
| 7 | Country |  |  |
| 8 | occupation |  |  |
| 9 | Phone number |  |  |
| 10 | role |  |  |
| 11 | transactions |  |  |

Product

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Field Name** | **Range of valid values for the field** | **Remarks** |
| 1 | \_id | 1 to 10000 | Unique id per puchase order |
| 2 | Name | 1 to 1000 | auto number |
| 3 | Price | 1 to 1000 | Foreign key |
| 4 | Description |  |  |
| 5 | Category |  |  |
| 6 | Rating |  |  |
| 7 | supply |  |  |

**High Level/Detailed Design (HLD/DD)**

**Overview of the system**

Customer

Store Manager

Database

Admin

**Detailed Design**

Store –

* Sells different goods.
* Tracks Products available and their popularity

Customer -

* Buys Goods and products available
* Register for benefits

Store Manager -

* Monitors sales of store.
* Tracking of popular items and products
* Tracking of geographical locations of orders

Finance -

* Keeping a record of admins on the dashboard
* Keeping a record of performance of employees.

1 – Transaction of the customer would be recorded in the Database with following details

Name

Delivery Address

Product

Phone no.

Email id

2 – Store Manager can keep a track of the daily sales and increase in customers.

3 – He can also look at the performance of the employees

4 – He can keep track of the employees attendance

5 – He can keep track of the products.

**Test-Plan (Unit test-plan and Integrated test-plan)**

This is an example. Please modify as per project specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Testcase Title** | **Description** | **Expected Outcome** | **The requirement in RS that is being tested** | **Result** |
| 1 | Successful User Verification | The login to the system should be tried with the login assigned by the admin and the correct password | Login should be successful and the user should enter in to the system | RS1-2 |  |
| 2 | Dahboard Sidebar and Appbar | The Sidebar and Appbar should be available at every page. | Sidebar and Appbar always available at every page. | RS5 |  |
| 3 | Dashboard elements | Dark and Light mode with changing icons and Search bar | Dark and Light mode using a button | RS 4 |  |
| 4 | Role based UI | The screens available to each user should be according to it’s role | Role based screens. In case of Manager ,admin and customer logs. | RS3 |  |
| 5 | Dashboard Components | Dashboard Components and their integration. | Dashboard Components working and their Integration. | RS6-10,13 |  |
| 6 | Backend Query | Query run at the backend and the output result in the dashboard element | Dashboard element using backend query being run in the background | RS 11-12,14 |  |