

# E-Spare Part Store

## Document:

System Requirement specification document

## Title:

System Requirement Specification for E-Spare Part Store

## Team:

Admin, Dealer (Distributor), Buyer (Retailer), Delivery Person.

## Objective:

E-Spare part Store is an online web application for commercial vehicles spare parts. It is B2B in nature where Retailer can buy spare parts with the help of part number. Distributor will list all the available parts and Admin will govern the site operations.

## Scope:

- Application has four types of Users. Admin, Dealer, Buyer, Admin & Delivery Person.
- It provides facility for Sign Up & Sign In. After successful Signing In it will take you to the page which is designed for corresponding user.
- Buyer user can search a part, view its details, purchase the product and can keep track of delivery progress.
- Dealer user can add & remove his products, receive orders, prepare & dispatch it.
- Admin user can perform various site governance operations.
- Delivery user will update the delivery progress of products.

## Definitions:

- B2B: Business to Business
- Portal: Personalised online web application.
- Dashboard: Personalized information presented using BI techniques such grid, score card, graph, KPI.

## Functional Requirements:

E-Spare Part Store application consist of 4 types of users:

- Buyer (Retailer)
- Dealer (Distributor)
- Admin
- Delivery Person

Buyer (Retailer): referred as user henceforth in this section.

- User can Sign Up for new account and also reset password of his existing account if he forgot his password.
- User will be authenticated using Sign In. After that information customised for him will be displayed on web page.
- User can search his desired product either by using search tool or looking into categories available on web site. Selected product information will be displayed in detail.
- Cart will be maintained for each session. User can place his final order from cart.
- After successfully placing order User can check delivery progress on website.
- User can update his information provided by him on website.
- User will receive communication from Admin user (Team) related to his account.

Dealer (Distributor): referred as User henceforth in this section.

- User can Sign Up for new account and also reset password of his existing account if he forgot his password.
- User will be authenticated using Sign In. After that information customised for him will be displayed on web page.
- User can add or remove products and also update current stock information about it on web application.
- User can also see orders placed by customers for his products.
- User will be able to notify order prepared for delivery on web application
- User will receive communication from Admin user (Team) related to his account.

Admin: referred as User henceforth in this section.

- User can Sign Up for new account and also reset password of his existing account if he forgot his password.
- User will be authenticated using Sign In. After that information customised for him will be displayed on web page.
- User will be able to see all Retailers, Distributors and Delivery Persons on his web application dashboard. User can also see their information in detail.

- User (Admin) can take actions against all other three users if he/she found that they are violating business policy of the organisation.
- User add, remove & maintains standard spare part list.
- User can see detailed statistics of business happening on web application.

Delivery Person: referred as User henceforth in this section.

- User can Sign Up for new account and also reset password of his existing account if he forgot his password.
- User will be authenticated using Sign In. After that information customised for him will be displayed on web page.
- User will receive delivery orders for orders placed by customer.
- User will notify once he/she takes product from distributor. Afterword's he will update all information regarding delivery until Retailer receives the product.
- User will receive communication from Admin user (Team) related to his account.

## **Non-Functional Requirements:**

### Security

- Registered Customer only allowed to place an order.
- Each stakeholder will be to access system through authentication process.
- System will be automatically log out for all stakeholders after some time if it is inactive.
- User proper firewall to protect servers from outside fishing, vulnerable attacks.

### Reliability

- The system will backup business data on regular basis and recover in short time duration to keep system operational
- Continuous updates are maintained, continuous Administration is done to keep system operational.

### Availability

- System will be up and running for 24\*7.

### Maintainability:

- A Commercial database software will be used to maintain System data Persistence.
- IT operations team will easily monitor and configure System using administrative tools provided by Servers

#### Durability:

- System will retain customer shopping cart for 15 minutes even though customer loose internet connection and join again.
- System will implement backup and recovery for retaining stake holder's data, business operation data and business data over time.

#### Efficiency:

- On peak time, maximum number of users will place order, view products with same response time.
- System will be able to manage all transactions with isolation.

#### Scalability:

- System will be able to provide consistent user experience to stake holder as well as visitors irrespective of load.

#### Safety:

- Online portal functionalities are protected from outside with proper firewall configuration.
- Online portal will be always kept updated with latest antivirus software.
- Business data will be backed up periodically to ensure safety of data using incremental back up strategy.