1. User Roles & Authentication

- Admin: Full management access, including CRUD operations.
- Operator/Clerk: Create and view challans with limited permissions.
- **Customer**: View and download their challan.

2. Challan Details

- Challan ID: Unique identifier (auto-generated).
- Customer Information: Name, contact details, and address.
- Date: Auto-populated but editable.
- Item/Service Details: Name, quantity, rate, and total.
- **Total Amount**: Auto-calculated.
- Tax/Discount: Optional fields to apply taxes or discounts.
- Payment Status: Paid, Unpaid, or Partially Paid.
- Remarks/Notes: Additional remarks.

3. Challan Creation & Management

- Create New Challan: Form with fields for all challan details.
- **Edit Challan**: Ability to edit existing challans.
- **Delete Challan**: Soft delete feature.
- View Challan: Detailed view of individual challans.
- **Search & Filter**: Search and filter options.
- **Download/Print Challan**: Option to download/print in PDF format.

4. Database Design

- Challans Table: Details of each challan.
- **Customers Table**: Customer information.
- Items/Services Table: Item/service details.
- **Users Table**: Manages user roles and authentication.

5. Front-End Requirements (jQuery)

- Form Validation: Ensures correct field entry.
- **Dynamic Form Fields**: Add/remove items/services.
- AJAX Calls: For CRUD operations without page reload.

- Live Search & Filter: Real-time search and filter.
- **DataTables Integration**: Display challans in table format.
- Interactive UI: User-friendly interface.

6. Back-End Requirements (if applicable)

- API Endpoints: CRUD operations.
- **Database Integration**: Data fetching and storage.
- **Security Measures**: CSRF protection, data validation.
- **PDF Generation**: Server-side PDF generation.

7. Testing & Deployment

- **Unit Testing**: Test individual components.
- **Integration Testing**: Test the entire workflow.
- **Deployment**: Deploy on a web server.

8. Additional Features (Optional)

- **Notifications**: Email/SMS notifications.
- Multi-language Support: Language options.
- **Reporting**: Generate reports based on data.