

PRANTIK SME

Software Requirements Specification Document

Small and Medium Enterprise System

Version No: - 1.00

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**Introduction:**

Save time and eliminate paperwork by automating the business Process. Proprietor can registration a business account then create stock, sales and sales man account using by web Interface. This automated system help to play a business with all update information which need a businessman.

**Overview of Functional Requirements:**

1. Authorized users (Proprietor) must be able to login with their identification number or user name and password.
2. After a successfully registration Proprietor can create Business Admin, Stock, Sales, Salesman account and many activities which provide by the system administrator.
3. After a successful login the user (Business Admin) can do an operation which is authorized by the Proprietor (Create Stock, Create Sales, Create Salesman account, View report, etc.).
4. After login user (Salesman) may do some operations, Like- Create a Customer account with sales and print, see sales report by using customer information, etc.

**Security System:**

Only Authorized user will be permitted to access the system. This system will provide the user’s with a secure way to change their information.

**Goal:**

Eliminate paperwork and fluently play business with all update information and data.

**What problem it will solve?**

1. Empower your Employees with self-service procurement.

2. Increase the percentage of Requisition with specific purpose of using vehicle.

3. Cost effective, save time, Easy to maintain.

4. Gain visibility to all requisition and their approvals.

**What is vision and mission for software?**

**Mission:**

Enable Requisition to focus on strategic objectives and realize operational efficiencies with technology that promotes great user experience.

**Vision:**

To establish e-requisition as the go-to provider with innovative and affordable regional solutions.

**Scope of the System:**

The project aims at providing an efficient interface to the BCC for managing their vehicle requisition based on current manual process in automate. The basic idea involved here is that vehicle and employee, driver are stored in a database. When system get a requisition request, the system analyzes the schedule, vehicle, availability of driver in database and send it to the vehicle manager (admin) for approval.

We also propose to include a feature “Feedback”. This feature keeps track of any objection from vehicle user or any inquiry to the vehicle manager and also from vehicle manager to the vehicle user about any instruction.

**The Domain:**

This proposed project aims at vehicle requisition management of BCC. It can be used in large domain would result in an equally as large scope of development. To keep that in mind we kept our software case study client BCC as organization and where it can also add any branch organization.

**The Client:**

Our software will allow our client to customize create user dynamically. Our client can apply our software another branch of it to minimize task on a very large scale.

**The User:**

The main users of the product would be employee and requisition related personnel and also driver. The vehicle controller would approve the requisition that would be sent out, provide necessary information as feedback. User Such Employee can edit their profile photo or password only and other information of profile will be handled by vehicle manager only. As per requisition requester I able to request and cancel or have inquiry. Many of these tasks, such as the information regarding Employee, vehicle, and driver would need to be set only once. Of course, the option to add, remove, or update this data would be implemented as well. Once this initial step has been taken, our software will require nothing more than an approval for the requisition being sent out, minimizing the work that management has to complete handle the request by approve or cancel the request.

**User Type:**

1. Employee (will request requisition)

2. Vehicle Manager (will request handle)

3. System Admin (can control everything in system)

**Stakeholder:**

1. Employee

2. Driver (get notified followed by requisition)

3. Vehicle Requisition handle related personnel.

**Feature:**

1. Requisition for vehicle as per request seat. (Scenario: 1)

2. Requisition available time=>as per scheduled time.

3. Request make for other user. (Scenario: 2)

4. Multiple car assign as per single request. (Scenario: 1)

5. Re-assign request (by manager): if available later (scenario: 3)

6. Role wise permission => create, view, delete.

**Scenario:**

**Scenario 1:**

User Mr. A can request n No. of seat for in a requisition: based on that appropriate vehicle approve. Or if it’s exceeded the number of seat in available car the multiple vehicle assign per that request.

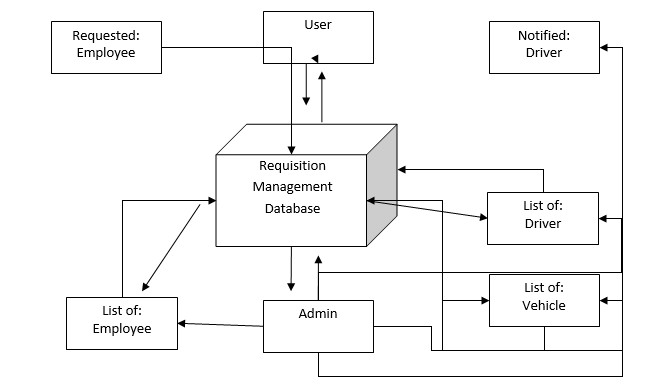
**Scenario 2:**

User Mr. A can request for Mr. B in a requisition: based on that it will be as Requested by Mr. A for Mr. B a vehicle requisition has requested.

**Senerio3:**

User Mr. A can requested a vehicle but it not available in present thus its cancel be vehicle manager, but after sometimes later vehicle available and it’s within requester requested time.

**Context Diagram:**



**Persona:**

**1. System Administrator:**

The person who is responsible for setting up and maintaining the system is called as the system administrator. System administrators may be members of an information technology department.

1. User administration (setup and maintaining System)

2. Create Vehicle Manager.

3. Create Employee as a user.

4. Monitor system performance

**2. Vehicle Controller / Manager:**

1. Plans, organizes, directs and monitors the maintenance, repair, replacements and servicing of motor vehicles and equipment.

2. Quick response about requisition.

3. Track information about requisition, Driver and Vehicles.

4. Assign Vehicles with Driver also.

5. Create User/ Employee who’s send request of the system.

6. As well as Vehicle Manager can Add, Update, Remove (Employee, Vehicle, Driver).

**3. Employee:**

1. Employee can submit their request.

2. Employee can see their profile/ Cancel their request which is pending by vehicle controller and see their previous requests.

**4. Driver:**

1. Driver will get notification for an assigned / unassigned trip as behalf of corresponding Vehicle.

**User Stories:**

Back Log For System Administrator:

1. As a System Administrator I want to Create Vehicle Manager. So that I can easily manage vehicle manager.
2. As a System Administrator I want to create vehicle list. So that manage all vehicle.
3. As a System Administrator I want to create a driver list. So that I can manage driver.
4. As a System Administrator I want to create employee list. So that I can make an employee as a user.
5. As a System Administrator I want to deactivate vehicle, Employee and driver. So that I can check all activities.

Backlog for Vehicle Manager:

1. As a vehicle controller I want to requisition search option. So that I can view all requisition status.
2. As a vehicle controller I want to approve requisition. So that I can assign a vehicle to an employee.
3. As a vehicle controller I want to cancel or delete requisition. So that I can make decision to assign a vehicle or not.
4. As a vehicle controller I want to reassign requisition. So that I can easily re-assign a vehicle on requisition.
5. As a vehicle controller I want to control vehicle check-in or check-out. So that I can easily guess which vehicle and driver are available?
6. As a vehicle controller I want to send confirmation mail or message to employee and driver. So that they can insure for their trip.
7. As a vehicle controller I want to discuss with the requester by message. So that we can easily contact with requester on this request.

Backlog for Employee:

1. As an Employee I want to access the system. So that create a login option.
2. As an Employee I want to send a requisition for vehicle. So that I can get a vehicle for trip.
3. 101As an Employee I want to cancel requisition. So that I can cancel my request.
4. As an Employee I want to get a confirmation message in mail or mobile. So that I will insure for my vehicle assign.
5. As an Employee I want to print requisition copy. So that I can get a document for trip.
6. As an Employee I want to communicate with vehicle controller on the request. So that I can instant discuss about assignable vehicle and driver with messaging.
7. As an Employee I want to see my all vehicle requisition list. So that I can informed about my request and view my requisition details.

**System Development Environment:**

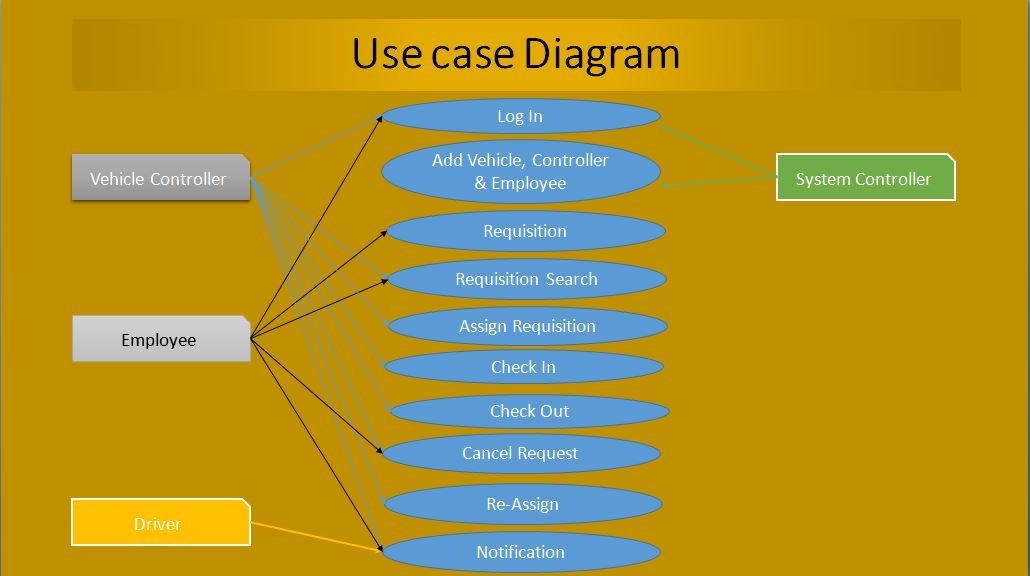
**Application Development:**

1. DOT NET Platform
2. ASP .NET MVC 5 With Repository Pattern
3. Entity Framework (Code first approach)
4. HTML-5, CSS-3 and Bootstrap 3
5. Javascript & JQuery- 2.4

**Application Database:**

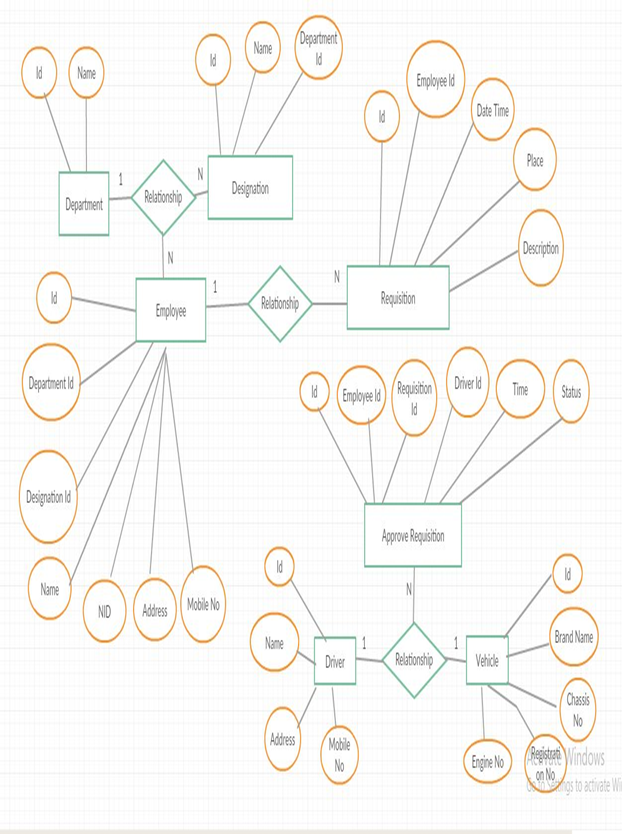
Microsoft SQL Server -2012

**Use Case Diagram:**



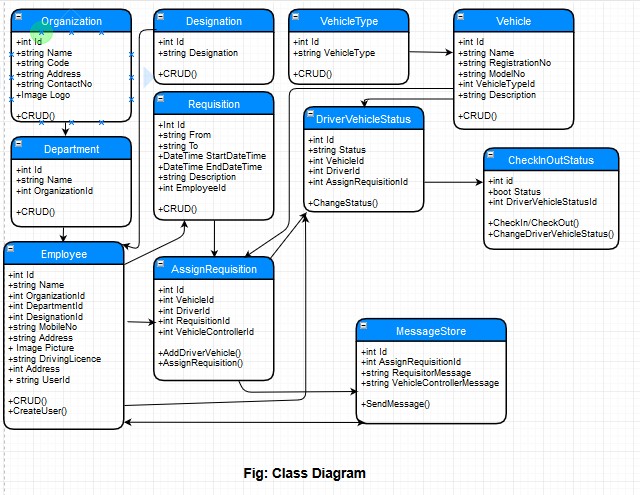
**Fig: Use Case Diagram**

**ER-Diagram:**

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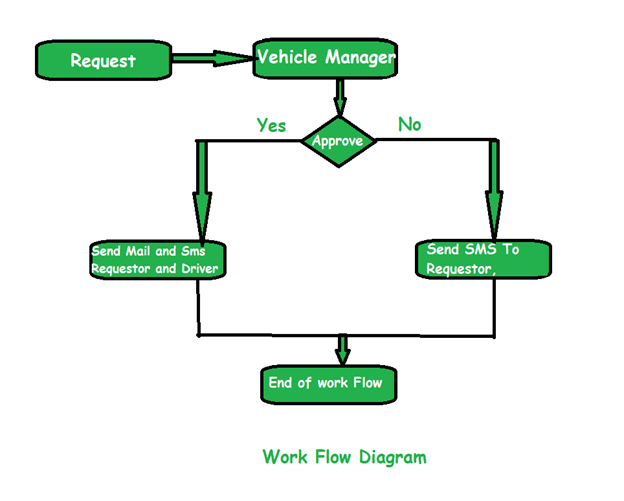
**Fig: ER-Diagram**

**Class Diagram:**

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**Fig: Class Diagram**

**Workflow Diagram:**

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**Fig: Work Flow Diagram**

**Activity Diagram:**

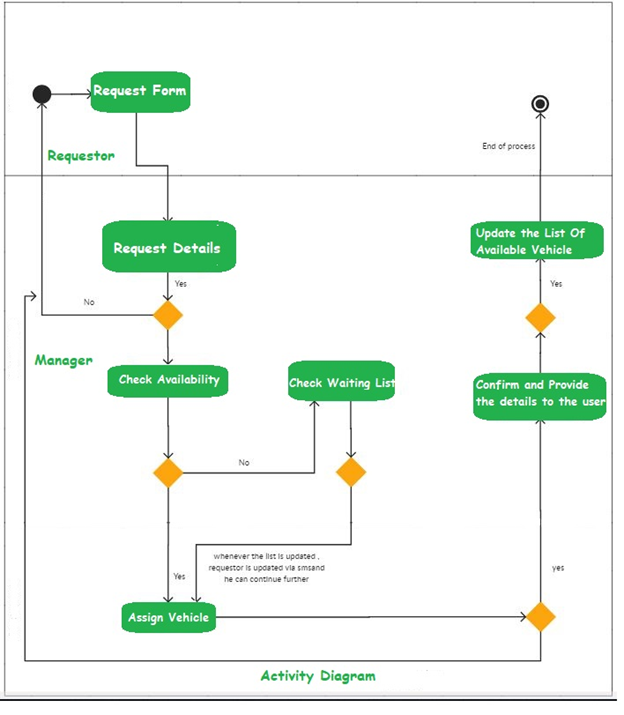
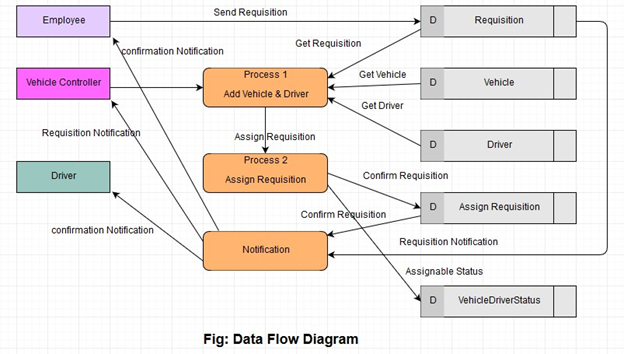
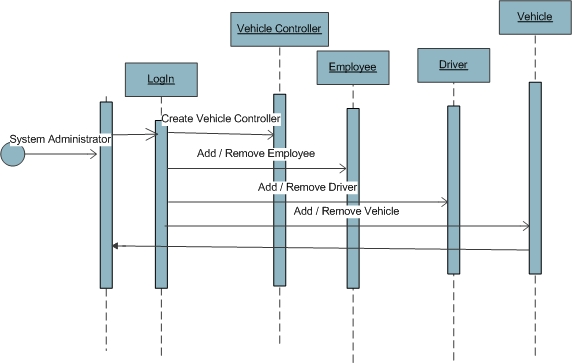
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Fig: Activity Diagram

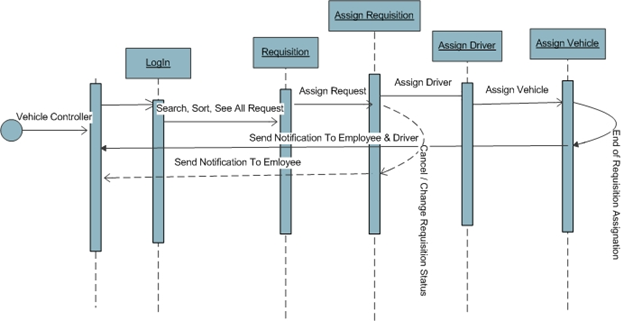
**Data Flow Diagram:**

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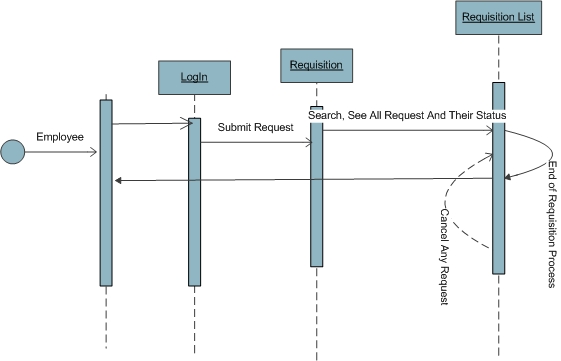
**Sequence Diagram:**

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**Fig: Sequence Diagram of System Administrator**

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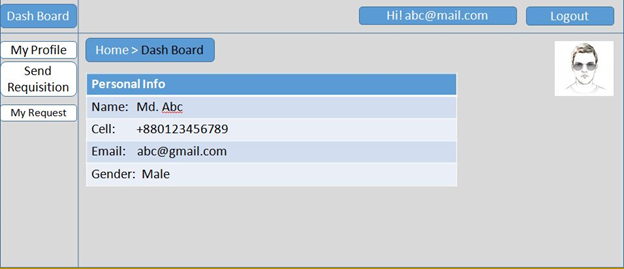
**Fig: Sequence Diagram of Vehicle Controller**

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**Fig: Sequence Diagram of Employee**

**Wire Frame:**

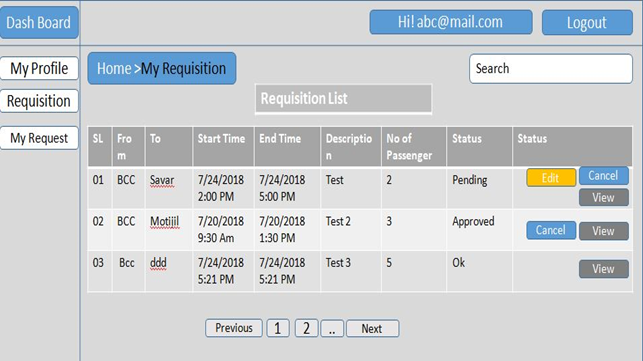
**Employee Profile:**

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**Request Form:**

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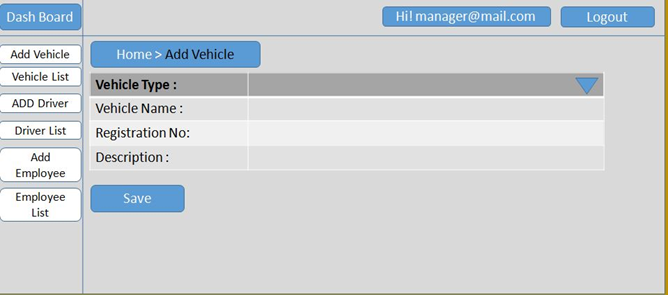
**List of Requisition:**

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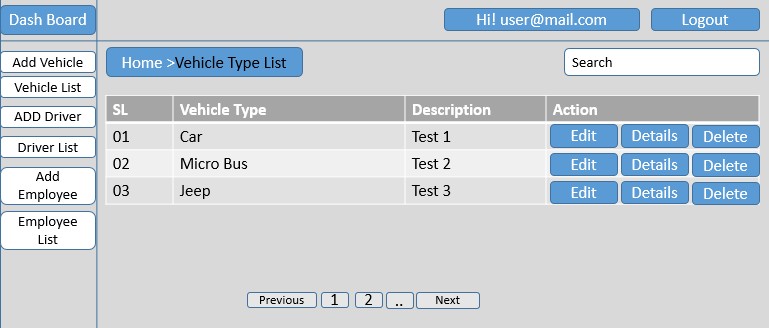
**Vehicle Manager:**

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**Add Vehicle:**

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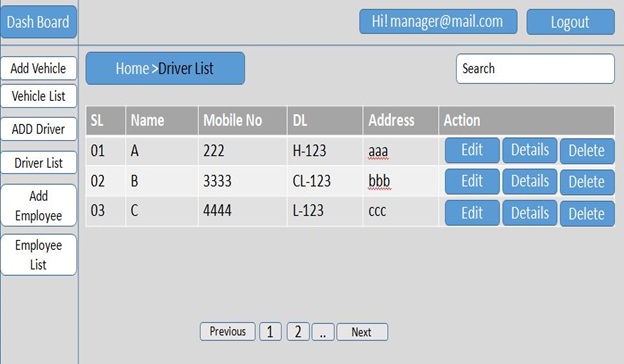
**Vehicle Type List:**

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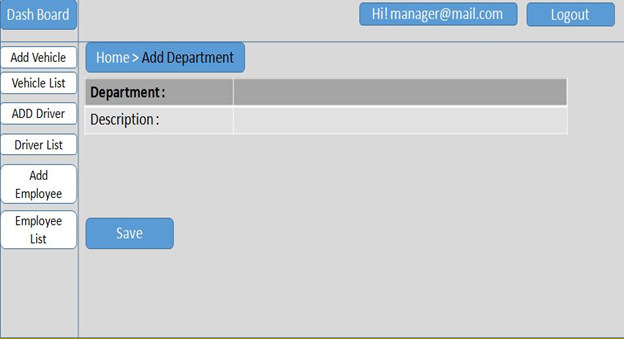
**Add Driver:**

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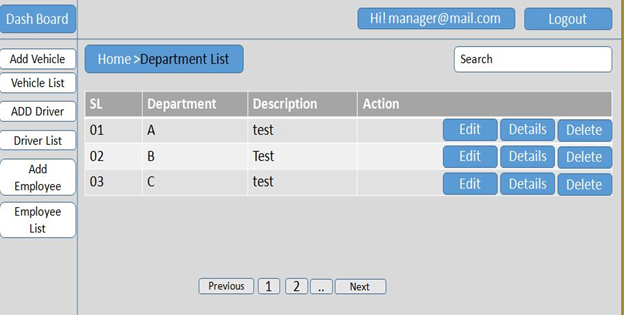
**Driver List:**

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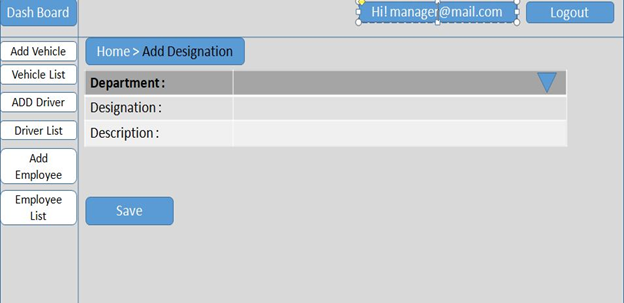
**Add Department:**

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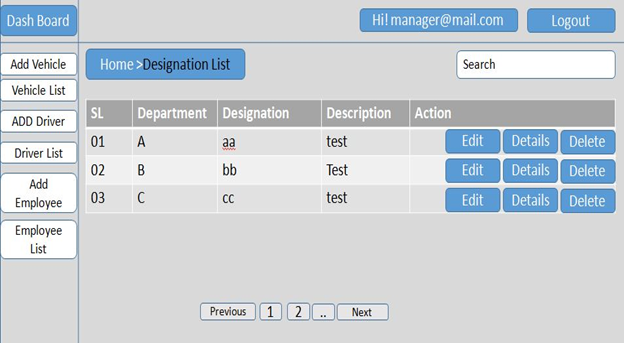
**Department List:**

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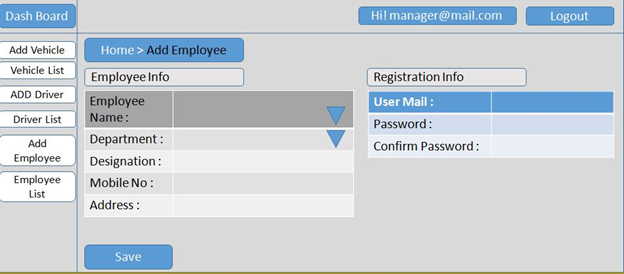
**Add Designation:**

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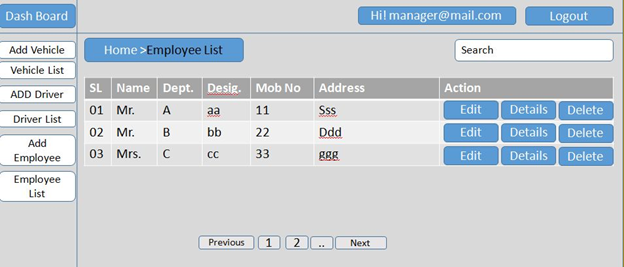
**Designation List:**

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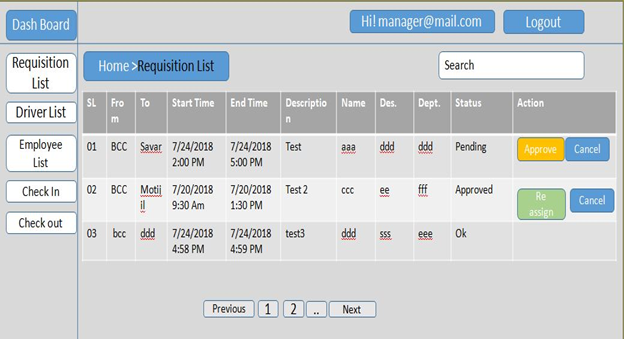
**Add Employee:**

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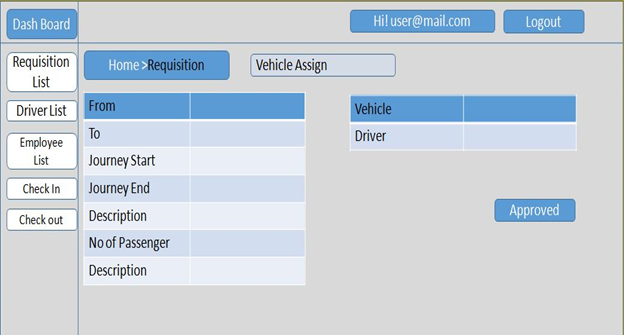
**Employee List:**

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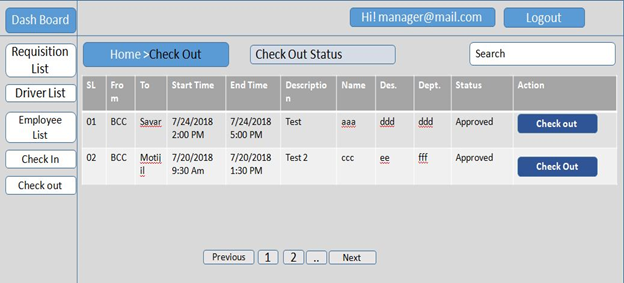
**Requisition List:**

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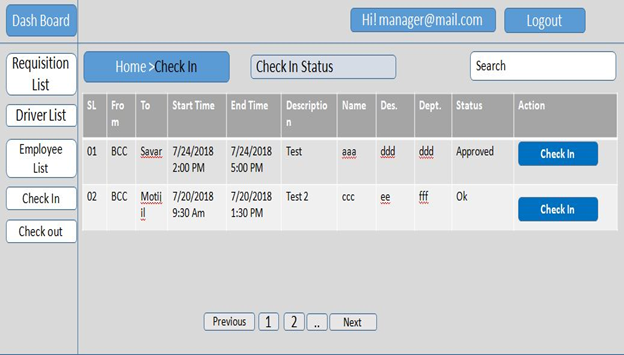
**Vehicle Assign Form:**

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**Check-out Form:**

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**Check-in Form:**

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