

Mi-12 Assignment Requirement

assignment12_category_0015

Objective

You must develop a **Parcel Management App** (an online platform where people can **Book Parcel To Deliver**, Admin Can Assign Delivery Person, and Delivery Person **Delivers the Parcel**) using the MERN stack.

Main Tasks

Make the homepage responsive for mobile, tablet and desktop.

HomePage:

1. **Navbar** has a logo+website name, Home, Dashboard, Notification icon, and Login (when not logged in) button. If the user is logged in, his/her profile picture should appear on the navbar.

If the user clicks on the **profile picture**, a drop-down will appear with the following items: **User name** (not clickable), **Dashboard**, and **Logout** button.

Use Cool animations throughout the application. Make a stunning footer for the app.

2. **The Banner** section will have a background image, a search bar, and heading text.

Note: Do the necessary beautification of this section.

3. **Our Features Section** will show 3 features (in cards) of your Delivery system to attract users to use your app. I.e Parcel Safety, Super Fast Delivery etc.

Each Feature Card Will Have

- ★ An Icon
- ★ Feature Title
- ★ A short description

Under The cards you will show a statistics of your app usage in 3 cards. The Numbers will come from the database.

- a. Number of Parcel Booked
- b. Number of Parcel Delivered
- c. Number of People Using Your App(Number of registered users)

Note : Use [react-countup](#) package to animate the numbers.

4. **The Top Delivery Man** Section will show the top 5 delivery men in 5 cards. You will sort them by the number of parcels they delivered and average of their ratings. Each Card will have

- ★ Delivery Man's Name
- ★ Image
- ★ Number of parcel Delivered
- ★ Average Ratings

5. Make a **Login and Registration** system for the users to create accounts and login to private routes in your application. Implement at least one social login system. After successful registration, save the user info in the mongodb collection.

There will be 3 users type : User, DeliveryMen, Admin

No One can Register as Admin, You have to manually insert admin data in the database. Register With one email and from mongodb collection, edit the type to "Admin"

You must take **user type** input by a select field when someone registers in the application. Also for email/password based login take input for name, profile image. Admin can make a user "DeliveryMen" or "Admin" from the admin dashboard.

NOTE : While social login the user type will always be 'User'.

6. **The Dashboard** : Clicking the Dashboard Menu in the navbar user will be redirected to the dashboard page. All The pages and Routes in the dashboard are **Private Routes**. You will show pages and menus in the dashboard Conditionally, according to the user type.

There will be a sidebar in the dashboard page which will show the following menus according to the user type.

- ❖ **Users Will See** - Book a Parcel, My Parcels, My Profile menu in the sidebar.
- ❖ **Delivery Men Will See** - My Delivery List, My Reviews menu in the sidebar.
- ❖ **Admin Will See** - All Parcels, All Users, All Delivery Men, Statistics, menu in the sidebar.

7. **The User Dashboard** : If the logged in user is a normal user he/she can navigate to the dashboard page and see the menus in the sidebar.

- ❖ **Book a Parcel** : This page will let the user to book a parcel filling out the following form.

- Name(Auto filled from the logged in user, read-only)
- Email(Auto filled from the logged in user, read-only)
- Phone Number
- Parcel Type(Text Field)
- Parcel Weight (Number Field)
- Receiver's Name
- Receiver's Phone Number
- Parcel Delivery Address
- Requested Delivery Date(Date Input)
- Delivery Address Latitude (i.e 21.121365496)
- Delivery Address longitude (i.e 21.121365496)
- Price(Auto Calculated from the Parcel Weight Input. For 1 kg Price is 50Tk, for 2 kg 100Tk, more than 2kg price will be 150Tk)

- **Book Button(submit)**

Note: Make sure to validate the form to get the appropriate data type. Clicking on the **Book Button** the data will be stored to mongodb collection. When you save the booking, by default it will have “**pending**” status.

❖ **My Parcels :** This page will show all the parcels booked by the logged in user in a tabular form. Each row will have

- Parcel Type,
- Requested Delivery Date,
- Approximate Delivery Date,
- Booking Date(Auto Generated by new Date())
- Delivery Men ID(this property will be updated when Admin Assigns a Delivery Men),
- Booking Status(There will be pending, on the way, delivered, returned, cancelled statuses) ,
- Update and Cancel Button.
- **Review Button-** If the parcel status is delivered, show a review button.([See Bonus Point 2 For The Additional Guideline](#))
- **Pay Button**([See Bonus Point 3 For The Additional Guideline](#))

Update- Clicking on this button you will redirect the user to the update booking page and let him update the booking. Make a note that the user can update the booking only if the booking status is ‘pending’. Otherwise you’ll disable the update button.

Cancel- You will update the status to cancel if the user clicks on cancel button, show alert before you change the status. User can cancel the booking only the status is ‘pending’

[Make a Filter System in this page so the user can filter booking by status.](#)

❖ **My Profile :** You’ll Show Logged In user Information In This page, Make necessary Beautification for this page. There will be an upload profile picture button and update button in this page. User should be able to upload an image file and update his profile picture.

8. **The Admin Dashboard:** If the logged in user is an Admin you'll show him the admin routes in the sidebar. By default the dashboard will show the **statistics page**. In this page you'll show 2 charts demonstrating the app usage data. Use [React Apex Chart](#) for this section.

- ❖ A bar chart that shows bookings by date.
- ❖ A line chart that shows the comparison between the number of booked parcels and delivered parcels.**(optional)**

→ **All Parcels:** In this page you will show all the booked parcels by users in tabular form. Each Row will have the following info,

- User's Name Who booked the parcel,
- User's Phone Who booked the parcel,
- Booking Date
- Requested Delivery Date
- Cost
- Status
- **Manage Button**

Manage Button- Clicking on the manage button you'll show a modal. In this modal You can select a Deliverymen From a select field and an Approximate delivery date From a Date input field. There will be an assign button. Clicking on this button you'll change the following thing in your database.

- Change The Booking status to 'On The Way'
- Add the delivery men _id to the 'Delivery Men ID' property in the booking.

HINTS - get all the delivery men from the database and map that array inside the select field and return option giving delivery men's id in the option value attribute.

Searching System : Make a Search System with Date Range in this page. There will be 2 date fields, admin can select a date from and date to for searching the booking that has **requested delivery date** in that selected date range.

HINTS - use mongodb **\$gte** and **\$lte** operator to compare data.

→ **All Delivery Men** : You will show all the delivery men in this page in a tabular form. Each Row will have,

- Delivery Man's Name
- Phone Number
- Number of parcel delivered
- Average review

→ **All Users** : You will show all the registered users in this page in a tabular form. Each Row will have,

- User's Name
- Phone Number
- Number of parcel Booked
- Total Spent Amount(sum of the costs of all parcel booked)(**optional**)
- Make Delivery Men Button - Clicking on this button you'll change the user type to **Delivery Men from User**
- Make Admin Button - Clicking on this button you'll change the user type to **Admin from User**.

Make a pagination for showing users in the table, show 5 users per page.

9. The Delivery Men's Dashboard: If the logged in user is a Delivery Man, you'll show routes for Delivery Man.

→ **My Delivery List** : This page will show all the parcels assigned to the logged in delivery man in a tabular form. He'll not be able to see parcels assigned to other Delivery Men. Each row will have

- Booked User's Name
- Receivers Name
- Booked User's Phone
- Requested Delivery Date

- Approximate Delivery Date
- Recievers phone number
- Receivers Address
- View Location Button([See Bonus Point 1 For The Additional Guideline](#))
- **Cancel Button** - Clicking on this button status of the booking will be changed to Cancelled. Show alert before sending a backend request.
- **Deliver Button** - Clicking on this button status of the booking will be changed to Delivered. Show alert before sending a backend request.

→ **My Reviews** : In this page you'll show all the reviews from the Users to this logged in delivery man in card form. Each Card will have Review giver's name, image, Review Giving Date, Rating out of 5, Feedback Text.

Bonus Section

1. **See Location** - clicking on the see location button a modal will open. In this modal you'll show a map and a pin on the map using the delivery latitude and longitude given while booking a parcel. You can use [MapBox](#) and [React MapGL](#) for free for this feature.
2. **Give Review** - Clicking on the Review Button a Modal will open. In this modal there will be a form field and a submit button. The form will have the following fields,
 - User's Name(Auto Filled)
 - User's Image(Auto Filled)
 - Rating out of 5
 - Feedback Text input field
 - Delivery Men's Id(Auto Filled)

Clicking on the submit button you'll save the info in a mongodb collection and show it by getting them by delivery men's id in the 'My Reviews' page in the Delivery Man's Dashboard.

3. **Pay Button** - Clicking On this Button user will be redirected to the checkout page. Here the user can pay the parcel cost by entering card info. Implement **Stripe Payment System** For this feature. When The payment is successful Redirect The user To a Payment Success Page where you will show [React Confetti](#) Explosion.
4. Use JWT for any 2-3 routes.
5. Make Meaningful github commits, add website features in the readme file.

Optional tasks

1. Use Tanstack Query
2. Use Material UI
3. Use React Hook Forms
4. Use Axios Interceptors
5. Use mongodb aggregation for showing statistics data in the admin dashboard.

[What to Submit](#)

1. **Assignment Category:** assignment12_category_0015
2. **Admin email:**
3. **Admin password:**
4. **Delivery Men's email:**
5. **Delivery Men's password:**
6. **Front-end Live Site Link:**
7. **Client Side Github Repository Link:**
8. **Server Side Github Repository Link:**