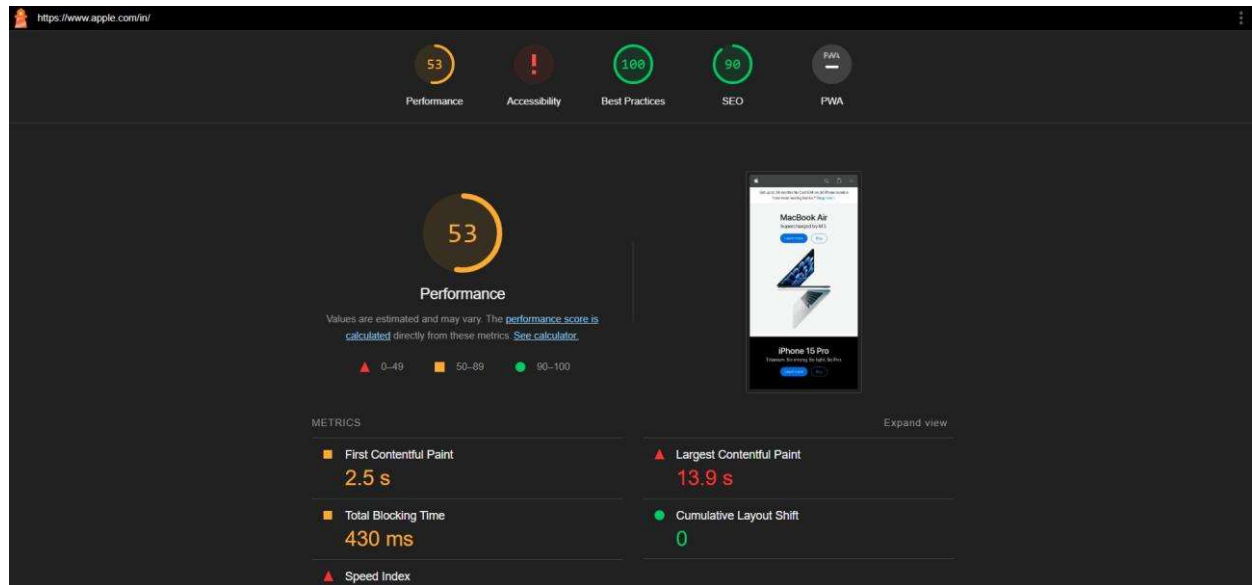
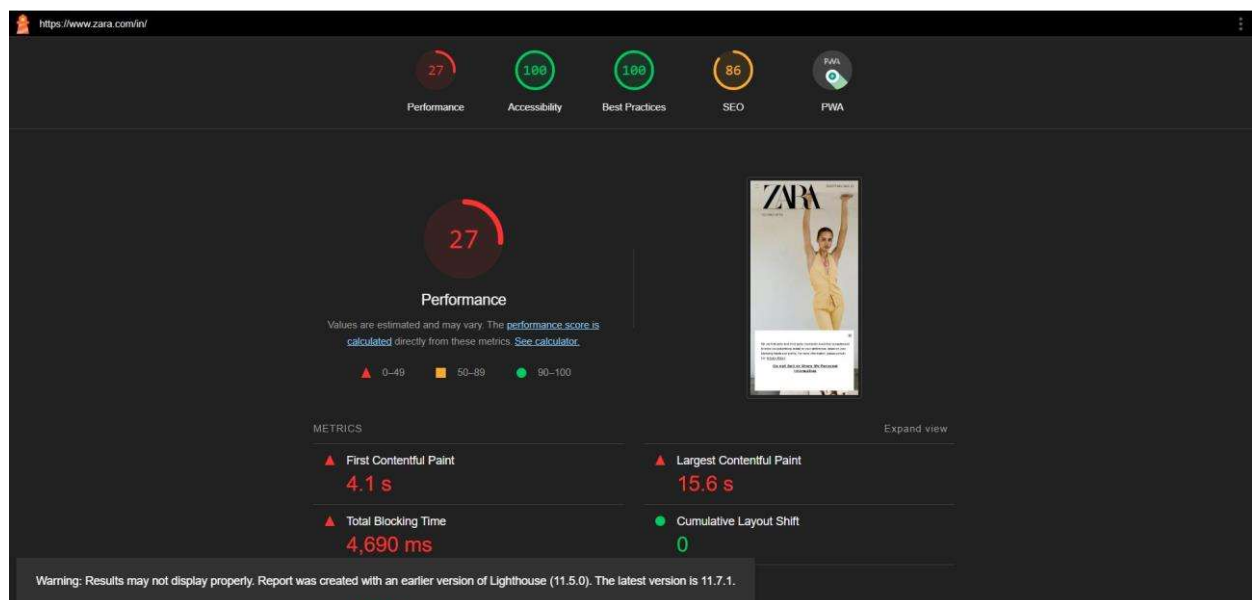


# (A). Web page performance analysis (Using LightHouse)

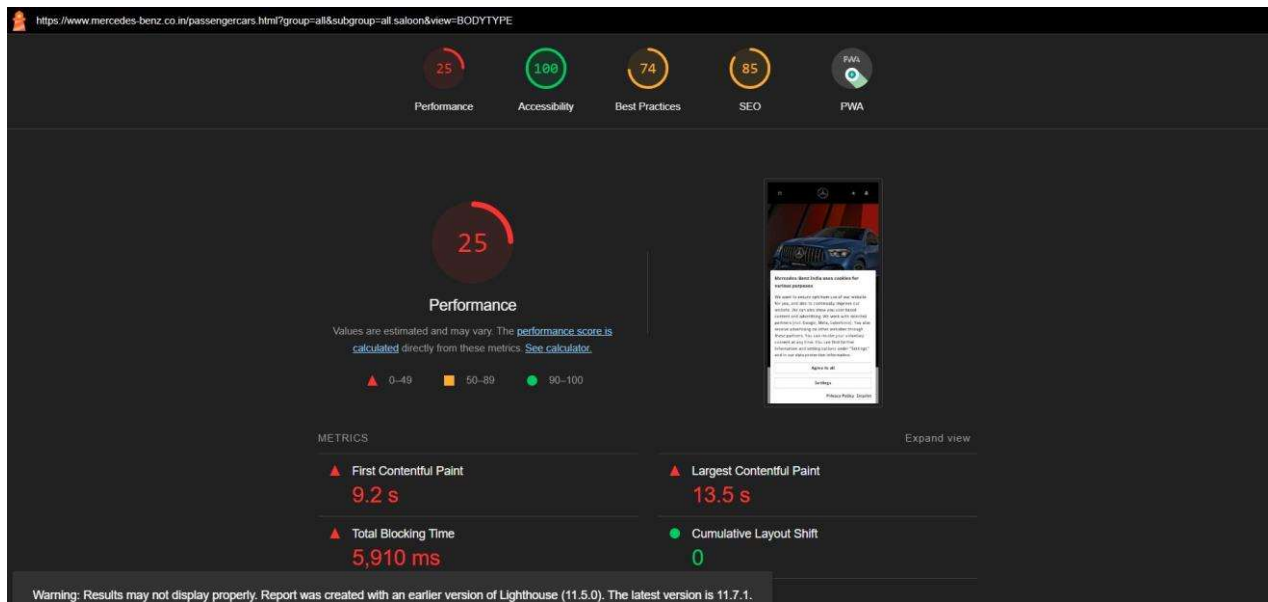
## 1. Apple Website



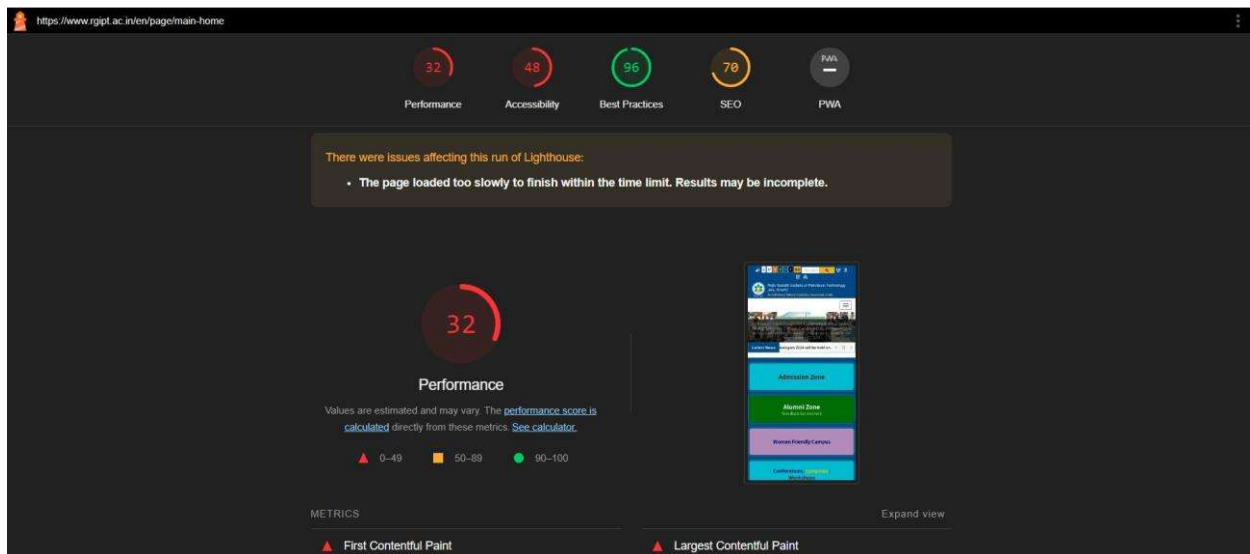
## 2. Zara Website



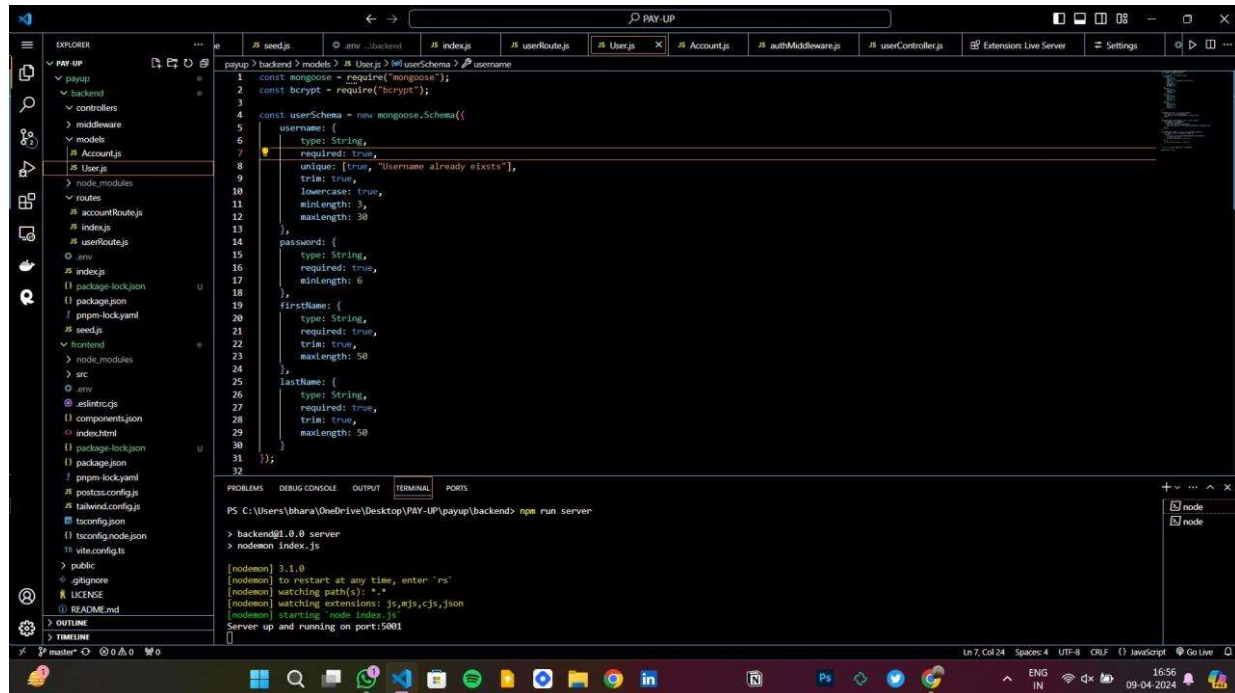
### 3. Benz Website



### 4. RGIPT Website



## (B). MERN-APP



```
payup > backend > models > User.js > @mongoose.Schema > Username
1 const mongoose = require("mongoose");
2 const bcrypt = require("bcrypt");
3
4 const userSchema = new mongoose.Schema({
5   username: {
6     type: String,
7     required: true,
8     unique: [true, "Username already exists"],
9     trim: true,
10    lowercase: true,
11    minlength: 3,
12    maxlength: 30
13  },
14  password: {
15    type: String,
16    required: true,
17    minlength: 6
18  },
19  firstName: {
20    type: String,
21    required: true,
22    trim: true,
23    maxlength: 50
24  },
25  lastName: {
26    type: String,
27    required: true,
28    trim: true,
29    maxlength: 50
30  }
31 });
32
```

PS C:\Users\bhara\OneDrive\Desktop\PAY-UP\payup\backend> npm run server

> backend@1.0.0 server

> node index.js

[nodemon] 3.1.0

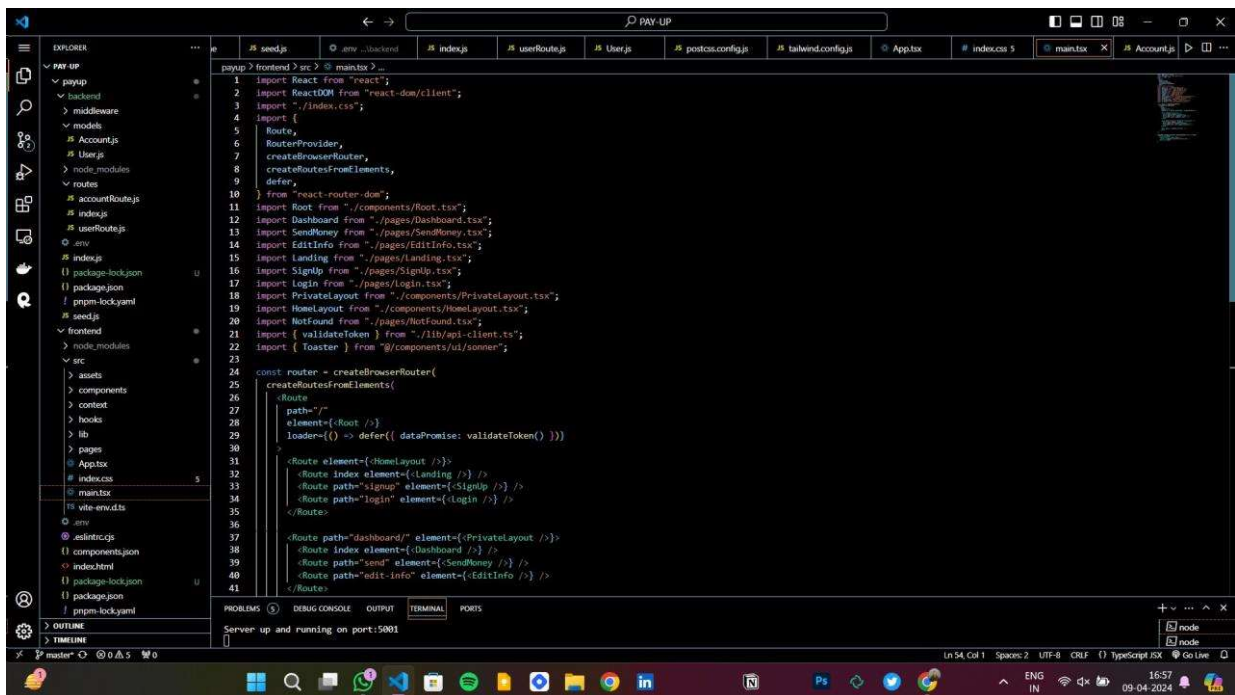
[nodemon] to restart at any time, enter 'rs'

[nodemon] watching path(s): \*.\*

[nodemon] watching extensions: js,mjs,cjs,json

[nodemon] starting 'node index.js'

Server up and running on port:5001



```
payup > frontend > src > @main.jsx
1 import React from "react";
2 import ReactDOM from "react-dom/client";
3 import "./index.css";
4 import {
5   RouterProvider,
6   createBrowserRouter,
7   createRoutesFromElements,
8   defer,
9   from "react-router-dom";
10 import Root from "../components/Root.jsx";
11 import Dashboard from "../pages/Dashboard.jsx";
12 import SendMoney from "../pages/SendMoney.jsx";
13 import EditInfo from "../pages/EditInfo.jsx";
14 import Landing from "../pages/Landing.jsx";
15 import Signup from "../pages/Signup.jsx";
16 import Login from "../pages/Login.jsx";
17 import PrivateLayout from "../components/PrivateLayout.jsx";
18 import HomeLayout from "../components/HomeLayout.jsx";
19 import NotFound from "../pages/NotFound.jsx";
20 import { validateToken } from "../lib/api-client.js";
21 import { Toast } from "B/components/ui/sonner";
22
23 const router = createBrowserRouter(
24   createRoutesFromElements(
25     <Route
26       path="/"
27       element=<Root />
28       loader={() => defer(() dataPromise: validateToken() )}
29     />
30     <Route element=<HomeLayout /> />
31     <Route index element=<Landing /> />
32     <Route path="signup" element=<Signup /> />
33     <Route path="login" element=<Login /> />
34     <Route
35       path="dashboard/"
36       element=<PrivateLayout />
37       <Route index element=<Dashboard /> />
38       <Route path="send" element=<SendMoney /> />
39       <Route path="edit-info" element=<EditInfo /> />
40     />
41   )
42 );
```

Server up and running on port:5001