BỘ THÔNG TIN VÀ TRUYỀN THÔNG HỌC VIỆN CÔNG NGHỆ BƯU CHÍNH VIỄN THÔNG



BÁO CÁO TUẦN 7

ĐỀ TÀI XÂY DỰNG WEBSITE BÃI ĐỖ XE THÔNG MINH

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Sinh viên thực hiện: Trần Xuân Kiên

Mã sinh viên: B22DCVT269

Lóp: E22CQCN02-B

Giai đoạn 2: Tạo trang Dashboard

```
import React, { useState } from 'react';
import { PieChart, Pie, Cell, BarChart, Bar, XAxis, YAxis,
CartesianGrid, Tooltip, Legend, ResponsiveContainer, LineChart, Line }
from 'recharts';
import {    Car, Clock, CreditCard, DollarSign, ParkingCircle, Users,
AlertCircle, Activity, Calendar, ChevronDown, Search, Bell, Menu,
Trash2, Eye } from 'lucide-react';
const occupancyData = [
 { name: 'Đã sử dụng', value: 68 },
  { name: 'Còn trống', value: 32 },
const COLORS = ['#0088FE', '#00C49F'];
const revenueData = [
  { name: 'T1', revenue: 4000 },
```

```
{ name: 'T3', revenue: 5000 },
  { name: 'T4', revenue: 2780 },
  { name: 'T5', revenue: 1890 },
  { name: 'T6', revenue: 2390 },
  { name: 'T7', revenue: 3490 },
  { name: 'T9', revenue: 5100 },
  { name: 'T10', revenue: 3500 },
  { name: 'T11', revenue: 4200 },
const trafficData = [
 { name: '00:00', cars: 20 },
  { name: '09:00', cars: 80 },
```

```
{ name: '15:00', cars: 90 },
  { name: '18:00', cars: 100 },
];
const parkingSpaces = [
 { id: 'A1', status: 'occupied', vehicle: 'Toyota Camry',
licensePlate: '29A-12345', entryTime: '08:30', duration: '2h 15m' },
 { id: 'A2', status: 'available', vehicle: '', licensePlate: '',
entryTime: '', duration: '' },
 { id: 'A3', status: 'occupied', vehicle: 'Honda Civic', licensePlate:
'30A-54321', entryTime: '09:45', duration: '1h 30m' },
 { id: 'A4', status: 'reserved', vehicle: 'Reservation', licensePlate:
'31A-56789', entryTime: '11:00', duration: 'Đặt trước' },
 { id: 'A5', status: 'maintenance', vehicle: 'Bảo trì', licensePlate:
'', entryTime: '', duration: '' },
 { id: 'A6', status: 'available', vehicle: '', licensePlate: '',
entryTime: '', duration: '' },
 { id: 'B1', status: 'occupied', vehicle: 'Ford Ranger', licensePlate:
'33A-98765', entryTime: '07:15', duration: '3h 45m' },
 { id: 'B2', status: 'occupied', vehicle: 'Mazda CX-5', licensePlate:
'29B-45678', entryTime: '10:00', duration: '1h 00m' },
```

```
const recentTransactions = [
 { id: 1, licensePlate: '29A-12345', entryTime: '08:30', exitTime:
'10:45', duration: '2h 15m', fee: '45.000 VNĐ', paymentMethod: 'Thể tín
dung' },
 { id: 2, licensePlate: '30A-54321', entryTime: '09:45', exitTime:
'11:15', duration: '1h 30m', fee: '30.000 VNĐ', paymentMethod: 'VNPay'
 { id: 3, licensePlate: '31A-56789', entryTime: '11:00', exitTime:
'13:30', duration: '2h 30m', fee: '50.000 VNÐ', paymentMethod: 'Tiền
mặt'},
 { id: 4, licensePlate: '33A-98765', entryTime: '07:15', exitTime:
'11:00', duration: '3h 45m', fee: '75.000 VNÐ', paymentMethod: 'MoMo'
];
const alerts = [
 { id: 1, type: 'warning', message: 'Xe 29A-12345 đỗ quá thời gian quy
định', time: '15 phút trước' },
 { id: 2, type: 'error', message: 'Camera khu vực B gặp sự cố', time:
'30 phút trước' },
 { id: 3, type: 'info', message: 'Bảo trì hệ thống sẽ diễn ra lúc
23:00', time: '1 giờ trước' },
```

```
function Sidebar() {
   <div className="bg-gray-800 text-white w-64 min-h-screen p-4 flex</pre>
flex-col">
       <h1 className="text-xl font-bold">Smart Parking</h1>
       Hệ thống quản lý bãi đỗ
xe
     <nav className="flex-1">
        className="mb-1">
          <a href="#" className="flex items-center p-3 text-white</pre>
bg-blue-600 rounded-lg">
            <span>Dashboard</span>
```

```
</a>
         <a href="#" className="flex items-center p-3 text-gray-300</pre>
hover:bg-gray-700 rounded-lg">
             <ParkingCircle className="mr-3" size={20} />
             <span>Quản lý chỗ đỗ</span>
           </a>
         cli className="mb-1">
           <a href="#" className="flex items-center p-3 text-gray-300</pre>
hover:bg-gray-700 rounded-lg">
             <span>Lich sử xe ra vào</span>
         className="mb-1">
           <a href="#" className="flex items-center p-3 text-gray-300</pre>
hover:bg-gray-700 rounded-lg">
```

```
<Users className="mr-3" size={20} />
             <span>Quản lý khách hàng/span>
           </a>
         cli className="mb-1">
           <a href="#" className="flex items-center p-3 text-gray-300</pre>
hover:bg-gray-700 rounded-lg">
             <span>Báo cáo doanh thu
           </a>
         className="mb-1">
           <a href="#" className="flex items-center p-3 text-gray-300</pre>
hover:bg-gray-700 rounded-lg">
             <AlertCircle className="mr-3" size={20} />
             <span>Thông báo & Cảnh báo</span>
           </a>
```

```
<a href="#" className="flex items-center p-3 text-gray-300"</pre>
hover:bg-gray-700 rounded-lg">
             <span>Lich bảo trì</span>
           </a>
         </nav>
      <div className="mt-auto pt-4 border-t border-gray-700">
        <a href="#" className="flex items-center p-3 text-gray-300</pre>
hover:bg-gray-700 rounded-lg">
fill="currentColor" viewBox="0 0 24 24">
            <path d="M9 21H5a2 2 0 0 1-2-2V5a2 2 0 0 1 2-2h4"></path>
            <line x1="21" y1="12" x2="9" y2="12"></line>
          <span>Đăng xuất</span>
```

```
</a>
      </div>
function Navbar() {
    <header className="bg-white shadow-sm px-6 py-3">
      <div className="flex items-center justify-between">
        <div className="flex items-center">
          <button className="text-gray-500 focus:outline-none</pre>
lg:hidden">
          </button>
          <h2 className="text-xl font-semibold text-gray-800"</pre>
ml-4">Dashboard Quản Lý</h2>
```

```
<div className="flex items-center space-x-4">
          <div className="relative">
              className="w-64 pl-10 pr-4 py-2 rounded-lg border
border-gray-300 focus:outline-none focus:ring-2 focus:ring-blue-500"
              placeholder="Tim ki @m..."
            <div className="absolute left-3 top-2.5 text-gray-400">
              <Search size={18} />
            </div>
          </div>
          <div className="relative">
            <button className="p-1 text-gray-400 rounded-full</pre>
hover:bg-gray-100 focus:outline-none">
              <span className="absolute top-0 right-0 h-4 w-4</pre>
bg-red-500 rounded-full flex items-center justify-center text-xs
text-white">3</span>
```

```
</div>
   <div className="flex items-center">
       className="h-8 w-8 rounded-full object-cover"
       src="/api/placeholder/48/48"
       alt="Ånh hồ sơ"
      <span className="ml-2 text-gray-700">Admin</span>
      <ChevronDown size={16} className="ml-1 text-gray-500" />
</div>
```

</button>

```
function DashboardContent() {
 const [tabView, setTabView] = useState('list'); // list, map
   <main className="p-6 bg-gray-100 flex-1 overflow-auto">
     <div className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-4</pre>
gap-6 mb-6">
       <div className="bg-white rounded-lg shadow p-4">
         <div className="flex items-center">
          <div className="p-3 rounded-full bg-blue-100</pre>
text-blue-500">
            <ParkingCircle size={24} />
          </div>
            Tổng số
chỗ đỗ
text-gray-800">100
          </div>
```

```
</div>
        <div className="mt-2">
          68% dã sử dụng
          <div className="w-full bg-gray-200 rounded-full h-2.5</pre>
mt-1">
           <div className="bg-blue-500 h-2.5 rounded-full" style={{</pre>
width: '68%' }}></div>
          </div>
        </div>
      </div>
      <div className="bg-white rounded-lg shadow p-4">
        <div className="flex items-center">
          <div className="p-3 rounded-full bg-green-100</pre>
text-green-500">
          </div>
          <div className="ml-4">
           Xe dang
đỗ
```

```
text-gray-800">68
        </div>
        <div className="mt-2">
          +12 so với hôm qua
          <div className="w-full bg-gray-200 rounded-full h-2.5</pre>
mt-1">
            <div className="bg-green-500 h-2.5 rounded-full" style={{</pre>
width: '68%' }}></div>
          </div>
        </div>
      <div className="bg-white rounded-lg shadow p-4">
        <div className="flex items-center">
          <div className="p-3 rounded-full bg-purple-100</pre>
text-purple-500">
          </div>
```

```
<div className="ml-4">
          Thời
gian đỗ TB
          2h
15p
         </div>
       </div>
       <div className="mt-2">
         +15p so với hôm qua
         <div className="w-full bg-gray-200 rounded-full h-2.5</pre>
mt-1">
          <div className="bg-purple-500 h-2.5 rounded-full"</pre>
style={{ width: '70%' }}></div>
         </div>
       </div>
      </div>
      <div className="bg-white rounded-lg shadow p-4">
       <div className="flex items-center">
         <div className="p-3 rounded-full bg-yellow-100</pre>
text-yellow-500">
```

```
<DollarSign size={24} />
        </div>
        <div className="ml-4">
         Doanh
thu hôm nay
         4.5M
<q/>VNĐ
      </div>
      <div className="mt-2">
        +18% so với hôm
qua
        <div className="w-full bg-gray-200 rounded-full h-2.5</pre>
mt-1">
         <div className="bg-yellow-500 h-2.5 rounded-full"</pre>
style={{ width: '82%' }}></div>
        </div>
     </div>
    </div>
```

```
<div className="grid grid-cols-1 lg:grid-cols-3 gap-6 mb-6">
       <div className="bg-white rounded-lg shadow p-6 col-span-2">
         <div className="flex justify-between items-center mb-6">
           <h3 className="text-lg font-semibold text-gray-800">Ldu
lượng xe theo giờ</h3>
           <div className="flex items-center">
              <select className="text-sm border-gray-300 rounded">
               <option>Hôm nay
                <option>Tuần này</option>
                <option>Tháng này</option>
              </select>
           </div>
         </div>
         <ResponsiveContainer width="100%" height={300}>
           <LineChart data={trafficData} margin={{ top: 5, right: 20,</pre>
left: 0, bottom: 5 }}>
              <CartesianGrid strokeDasharray="3 3" />
```

```
<YAxis />
            <Legend />
            <Line type="monotone" dataKey="cars" stroke="#8884d8"</pre>
activeDot={{    r: 8    }}    />
          </LineChart>
       </div>
       <div className="bg-white rounded-lg shadow_p-6">
        <div className="flex justify-between items-center mb-6">
          sử dụng</h3>
          <div className="flex items-center">
            <span className="text-sm text-blue-500 font-medium">Cập
nhật: 1 phút trước</span>
          </div>
        </div>
```

```
<ResponsiveContainer width="100%" height={250}>
              <PieChart>
                <Pie
                  data={occupancyData}
                 cx="50%"
                 fill="#8884d8"
                  label={({ name, percent }) => `${name}: ${(percent *
100).toFixed(0)}%`}
                  {occupancyData.map((entry, index) => (
COLORS.length]} />
```

```
</PieChart>
            </ResponsiveContainer>
          </div>
          <div className="flex justify-center mt-4">
            <div className="flex items-center mr-6">
              <div className="w-3 h-3 bg-blue-500 rounded-full</pre>
mr-2"></div>
              <span className="text-sm text-gray-600">Đã sử dụng
(68)</span>
            </div>
            <div className="flex items-center">
              <div className="w-3 h-3 bg-green-500 rounded-full</pre>
mr-2"></div>
              <span className="text-sm text-gray-600">Còn trống
(32)</span>
            </div>
          </div>
        </div>
      </div>
```

```
<div className="bg-white rounded-lg shadow p-6 mb-6">
       <div className="flex justify-between items-center mb-6">
         <h3 className="text-lg font-semibold text-gray-800">Doanh thu
theo tháng</h3>
         <div className="flex items-center">
           <select className="text-sm border-gray-300 rounded">
             <option>Năm 2025
             <option>Năm 2024
           </select>
         </div>
       </div>
       <ResponsiveContainer width="100%" height={300}>
         <BarChart data={revenueData}>
           <YAxis />
           <Tooltip formatter={(value) => [`${value} nghìn VND`,
Doanh thu']} />
```

```
<Legend />
            <Bar dataKey="revenue" name="Doanh thu (nghìn VND)"</pre>
fill="#8884d8" />
          </BarChart>
        </ResponsiveContainer>
      </div>
      <div className="bg-white rounded-lg shadow p-6 mb-6">
        <div className="flex justify-between items-center mb-6">
          <h3 className="text-lg font-semibold text-gray-800">Trang
thái bãi đỗ xe</h3>
          <div className="flex space-x-2">
              className={`px-4 py-2 text-sm rounded-lg ${tabView ===
'list' ? 'bg-blue-500 text-white' : 'bg-gray-200 text-gray-700'}`}
              Danh sách
```

```
</button>
         className={`px-4 py-2 text-sm rounded-lg ${tabView ===
'map' ? 'bg-blue-500 text-white' : 'bg-gray-200 text-gray-700'}`}
         onClick={() => setTabView('map')}
         Sơ đồ
        </button>
      </div>
     </div>
     {tabView === 'list' ? (
      <div className="overflow-x-auto">
        text-sm leading-normal">
            Vi tri
            className="py-3 px-6 text-left">Trang thái
```

```
Phương tiện
         Biển số
         Gið vào
         Thời gian
         Hành động
        </thead>
       {parkingSpaces.map((space) => (
         border-gray-200 hover:bg-gray-50">
          {space.id}
          <span className={ `py-1 px-3 rounded-full text-xs</pre>
$ {
            space.status === 'occupied' ? 'bg-red-100
text-red-800':
            space.status === 'available' ? 'bg-green-100
text-green-800':
            space.status === 'reserved' ? 'bg-yellow-100
text-yellow-800':
```

```
'bg-gray-100 text-gray-800'
                 { space.status === 'occupied' ? 'Đã đỗ' :
                  space.status === 'available' ? 'Trống' :
                  space.status === 'reserved' ? 'Đã đặt' : 'Bảo
trì'}
              {space.vehicle
| | '-'}
              <td className="py-3 px-6"
<td className="py-3 px-6
text-left">{space.entryTime || '-'}
              {space.duration
              <div className="flex item-center justify-center">
                 <button className="w-6 h-6 mr-2 transform</pre>
hover:text-blue-500 hover:scale-110">
                  <Eye size={16} />
```

```
</button>
                      <button className="w-6 h-6 transform</pre>
hover:text-red-500 hover:scale-110">
                      </button>
                  <div className="grid grid-cols-6 gap-4">
           {parkingSpaces.map((space) => (
              key={space.id}
              className={`p-3 rounded-lg text-center border-2 ${
```

```
space.status === 'occupied' ? 'border-red-500
bg-red-50':
                 space.status === 'available' ? 'border-green-500
bg-green-50':
                 space.status === 'reserved' ? 'border-yellow-500
bg-yellow-50':
                  'border-gray-500 bg-gray-50'
               <div className="font-bold">{space.id}</div>
               <div className="text-xs mt-1">{space.licensePlate | |
'Trống'}</div>
             </div>
         </div>
     </div>
     <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-6">
```

```
<div className="bg-white rounded-lg shadow p-6">
      <div className="flex justify-between items-center mb-6">
       <h3 className="text-lg font-semibold text-gray-800">Giao
dịch gần đây</h3>
       <a href="#" className="text-sm text-blue-500</pre>
hover:underline">Xem tất cả</a>
      </div>
      <div className="overflow-x-auto">
       <thead className="bg-gray-100 text-gray-600 text-xs">
           Biển số
           Giờ vào
           Giò ra
           Phí
          </thead>
         {recentTransactions.map((transaction) => (
```

```
border-gray-200">
            <td className="py-2 px-3 text-left"
<td className="py-2 px-3
<td className="py-2 px-3
<td className="py-2 px-3 text-right"
))}
       </div>
    </div>
    <div className="bg-white rounded-lg shadow p-6">
      <div className="flex justify-between items-center mb-6">
       <h3 className="text-lg font-semibold text-gray-800">Canh
báo hệ thống</h3>
```

```
<a href="#" className="text-sm text-blue-500"</pre>
hover:underline">Xem tất cả</a>
         <div className="space-y-4">
           {alerts.map((alert) => (
              className={`p-4 rounded-lg border-l-4 ${
                alert.type === 'warning' ? 'border-yellow-500
bg-yellow-50':
                alert.type === 'error' ? 'border-red-500 bg-red-50' :
                'border-blue-500 bg-blue-50'
              <div className="flex justify-between items-start">
text-gray-800">{alert.message}
                  mt-1">{alert.time}
```

```
</div>
                  <button className="text-gray-400"</pre>
hover:text-gray-600">
fill="none" stroke="currentColor" strokeWidth="2" strokeLinecap="round"
strokeLinejoin="round">
                 </button>
                </div>
              </div>
            ))}
        </div>
     </div>
    </main>
```

```
function Footer() {
    <footer className="bg-white border-t border-gray-200 py-4 px-6">
      <div className="flex flex-col md:flex-row justify-between"</pre>
items-center">
        <div className="flex flex-col text-sm text-gray-600">
          <span>© 2025 Smart Parking Management System. All rights
reserved.</span>
          <span className="mt-1">Phiên bản: 1.0.2 - Cập nhật:
15/04/2025</span>
        </div>
        <div className="mt-4 md:mt-0">
          <div className="flex items-center justify-center mb-2">
            <span className="text-sm text-gray-600 mr-2">K @ t noi voi
chúng tôi:</span>
            <div className="flex space-x-3">
              <a href="#" className="text-gray-600</pre>
hover:text-blue-500">
                <svg width="20" height="20" fill="currentColor"</pre>
viewBox="0 0 24 24">
```

```
<path d="M18.244 2.25h3.3081-7.227 8.26 8.502</pre>
11.24H16.171-5.214-6.817L4.99 21.75H1.6817.73-8.835L1.254
2.25H8.0814.713 6.231zm-1.161 17.52h1.833L7.084 4.126H5.117z"></path>
                </svg>
              </a>
              <a href="#" className="text-gray-600</pre>
hover:text-blue-500">
                <svg width="20" height="20" fill="currentColor"</pre>
viewBox="0 0 24 24">
                  <path d="M22.675 0h-21.35c-.732 0-1.325.593-1.325</pre>
1.325v21.351c0 .731.593 1.324 1.325
1.324h11.495v-9.294h-3.128v-3.622h3.128v-2.671c0-3.1 1.893-4.788
4.659-4.788 1.325 0 2.463.099 2.795.143v3.241-1.918.001c-1.504
0-1.795.715-1.795 1.763v2.313h3.587l-.467 3.622h-3.12v9.293h6.116c.73 0
1.323-.593 1.323-1.325v-21.35c0-.732-.593-1.325-1.325-1.325z"></path>
                </svg>
              </a>
              <a href="#" className="text-gray-600</pre>
hover:text-blue-500">
                <svg width="20" height="20" fill="currentColor"</pre>
viewBox="0 0 24 24">
                  <path d="M12 2.163c3.204 0 3.584.012 4.85.07</pre>
3.252.148 4.771 1.691 4.919 4.919.058 1.265.069 1.645.069 4.849 0
3.205-.012 3.584-.069 4.849-.149 3.225-1.664 4.771-4.919
4.919-1.266.058-1.644.07-4.85.07-3.204
0-3.584-.012-4.849-.07-3.26-.149-4.771-1.699-4.919-4.92-.058-1.265-.07-
1.644-.07-4.849 0-3.204.013-3.583.07-4.849.149-3.227 1.664-4.771
4.919-4.919 1.266-.057 1.645-.069 4.849-.069zm0-2.163c-3.259
```

```
0-3.667.014-4.947.072-4.358.2-6.78 2.618-6.98 6.98-.059 1.281-.073
1.689-.073 4.948 0 3.259.014 3.668.072 4.948.2 4.358 2.618 6.78 6.98
6.98 1.281.058 1.689.072 4.948.072 3.259 0 3.668-.014 4.948-.072
4.354-.2 6.782-2.618 6.979-6.98.059-1.28.073-1.689.073-4.948
0-3.259-.014-3.667-.072-4.947-.196-4.354-2.617-6.78-6.979-6.98-1.281-.0
59-1.69-.073-4.949-.073zm0 5.838c-3.403 0-6.162 2.759-6.162 6.162s2.759
6.163 6.162 6.163 6.162-2.759
6.162-6.163c0-3.403-2.759-6.162-6.162-6.162zm0 10.162c-2.209
0-4-1.79-4-4 0-2.209 1.791-4 4-4s4 1.791 4 4c0 2.21-1.791 4-4
4zm6.406-11.845c-.796 0-1.441.645-1.441 1.44s.645 1.44 1.441 1.44c.795
0 1.439-.645 1.439-1.44s-.644-1.44-1.439-1.44z"></path>
             </a>
           </div>
         </div>
         <a href="#" className="text-sm text-gray-600"</pre>
hover:text-blue-500">Trợ giúp</a>
           <a href="#" className="text-sm text-gray-600"</pre>
hover:text-blue-500">Điều khoản</a>
           <a href="#" className="text-sm text-gray-600"</pre>
hover:text-blue-500">Chinh sách</a>
           <a href="#" className="text-sm text-gray-600"</pre>
hover:text-blue-500">Liên hê</a>
           <a href="#" className="text-sm text-gray-600"</pre>
hover:text-blue-500">Vè chúng tôi</a>
```

```
</div>
</footer>

}
```