/Users/abdulazizdot/Desktop/customer-suppaget-lagefntl/app/types/chat.ts

```
// /app/types/chat.ts
export interface FinancialMetadata {
    instruments?: string[];
sentiment?: 'bullish' | 'bearish' | 'neutral';
riskLevel?: 'low' | 'medium' | 'high';
    confidenceScore?: number;
    technicalIndicators?: string[];
    fundamentalFactors?: string[];
  export interface Message {
    id: string;
    role: string;
    content: string;
   metadata?: FinancialMetadata;
  export interface ChatResponse {
    id: string;
    response: string;
    thinking: string; user_mood: string;
    suggested_questions: string[];
    financial_context: {
      instruments_mentioned: string[];
      market_sentiment: 'bullish' | 'bearish' | 'neutral';
risk_level: 'low' | 'medium' | 'high';
       confidence_score: number;
       technical_indicators: string[];
      fundamental_factors: string[];
    };
    debug: {
```

context_used: boolean;
market_data_used: boolean;

};

/Users/abdulazizdot/Desktop/customer-suppaget-lagefntl/app/config/navigation.ts

/Users/abdulazizdot/Desktop/customer-suppmertlagen25app/config/market.ts

```
// /app/config/market.ts
export const API_KEY = process.env.NEXT_PUBLIC_TWELVE_DATA_API_KEY |  'demo';
export const API_URL = 'https://api.twelvedata.com';
export interface CompanyLogo {
 meta: {
   symbol: string;
    name: string;
    currency: string;
    exchange: string;
   mic_code: string;
   exchange_timezone: string;
 };
 url: string;
export const SAUDI_MARKET = {
 exchange: 'Tadawul',
 mic_code: 'XSAU',
 currency: 'SAR',
 timezone: 'Asia/Riyadh',
trading_hours: 'Su-Th, 10:00am - 3:00pm',
 data_delay: '15min'
// Updated with correct symbols and standardized format
export const SAUDI_SYMBOLS = [
  // Banks & Financial Services
      {
          symbol: '2222:TADAWUL',
          tickerSymbol: '2222',
          name: 'Saudi Aramco',
          sector: 'Energy',
          website: 'www.saudiaramco.com'
          symbol: '2381:TADAWUL',
          tickerSymbol: '2381',
          name: 'Arabian Drilling',
          name_ar: 'Ø'رÙ\203Ø@ ØŞÙ\204Ø-Ù\201ر ØŞÙ\204عرØ"Ù\212Ø@',
          sector: 'Energy',
          website: 'www.arabdrill.com'
      },
          symbol: '2382:TADAWUL',
          tickerSymbol: '2382',
          name: 'ADES',
         name_ar: 'Ø£Ø-Ù\212Ø3',
          sector: 'Energy',
          website: 'www.adesgroup.com'
      },
          symbol: '2380:TADAWUL',
          tickerSymbol: '2380',
          name: 'Petro Rabigh',
          name_ar: 'Ø"ترÙ\210راØ"ذ',
          sector: 'Energy',
          website: 'www.petrorabigh.com'
          symbol: '4030:TADAWUL',
          tickerSymbol: '4030',
         name: 'Bahri',
name_ar: 'ØSÙ\204Ø"Ø-رÙ\212',
sector: 'Transportation',
          website: 'www.bahri.sa'
      },
          symbol: '4200:TADAWUL',
          tickerSymbol: '4200',
          name: 'Aldrees',
          name_ar: 'اÙ\204Ø Ø±Ù\212Ø3',
          sector: 'Energy',
          website: 'www.aldrees.com'
      },
          symbol: '2030: TADAWUL',
          tickerSymbol: '2030',
          name: 'SARCO',
          name_ar: 'Ø3Ø$رÙ\203Ù\210',
          sector: 'Materials',
          website: 'www.sarco.com.sa'
      },
```

```
{
         symbol: '1202:TADAWUL',
         tickerSymbol: '1202',
         name: 'MEPCO',
         name_ar: '\u00fg'\u00dc\u00dc\u00e4210',
         sector: 'Materials',
         website: 'www.mepco.biz'
},
         symbol: '3007: TADAWUL',
         tickerSymbol: '3007',
        name: 'Oasis',
        name_ar: 'Ù\210اØ-Ø©',
         sector: 'Materials',
         website: 'www.oasis.com.sa'
},
         symbol: '1201:TADAWUL',
         tickerSymbol: '1201',
         name: 'Takween',
        name_ar: 'ØaÙ\203Ù\210Ù\212Ù\206',
         sector: 'Materials',
         website: 'www.takween.com.sa'
},
         symbol: '1322:TADAWUL',
         tickerSymbol: '1322',
         name: 'AMAK',
         name_ar: 'Ø£Ù\205Ù\203',
         sector: 'Materials',
         website: 'www.amak.com.sa'
},
         symbol: '3008:TADAWUL',
         tickerSymbol: '3008',
         name: 'Alkathiri',
         name_ar: 'Ø$\`\204\`\203\%\`\212\\\\212',
sector: 'Materials',
         website: 'www.alkathiri.com'
},
         symbol: '2001:TADAWUL',
         tickerSymbol: '2001',
         name: 'Chemanol',
         name_ar: '\u00fc\203\u00fc\212\u00fc\205\u00fg\\206\u00fc\210\u00fc\204',
         sector: 'Materials',
         website: 'www.chemanol.com'
         symbol: '2010:TADAWUL',
         tickerSymbol: '2010',
         name: 'SABIC',
         name_ar: 'Ø3اØ"Ù\203',
         sector: 'Materials',
         website: 'www.sabic.com'
},
         symbol: '2020:TADAWUL',
         tickerSymbol: '2020',
         name: 'SABIC Agri-Nutrients',
         name_ar: 'Ø3ØSØ"Ù\203 Ù\204Ù\204Ù\205ذذÙ\212ØSØ* ØSÙ\204Ø2رØSعÙ\212Ø©',
         sector: 'Materials',
         website: 'www.sabic-agri.com'
},
         symbol: '2060:TADAWUL',
         tickerSymbol: '2060',
         name: 'Tasnee'
         name_ar: 'تØμÜ\206Ü\212ع',
         sector: 'Materials',
         website: 'www.tasnee.com'
         symbol: '2170:TADAWUL',
         tickerSymbol: '2170',
         name: 'Alujain',
         name_ar: \begin{subarray}{ll} \begin{subarray}{ll
         sector: 'Materials',
         website: 'www.alujain.com'
},
         symbol: '2210:TADAWUL',
         tickerSymbol: '2210',
         name: 'Nama Chemicals',
         name\_ar: \ \ \'u\ 205@\$g; \ \ \dot u\ 204\dot u\ 203\dot u\ 212\dot u\ 205@\$\dot u\ 210\dot u\ 212@\$g^a',
         sector: 'Materials',
```

```
website: 'www.nama.com.sa'
},
{
     symbol: '2250:TADAWUL',
     tickerSymbol: '2250',
     name: 'SIIG',
     name_ar: /ØS\mathring{U}\204\mathring{U}\205\mathring{G}^-\mathring{U}\205\mathring{U}\210\mathring{G}^-\mathring{G} ØS\mathring{U}\204\mathring{G}^3\mathring{G}^1\mathring{U}\210\mathring{G}^-\mathring{U}\212\mathring{G}^-,
     sector: 'Materials',
     website: 'www.siig.com.sa'
     symbol: '2290:TADAWUL',
     tickerSymbol: '2290',
     name: 'Yansab'
     name_ar: '\dot{U}\212\dot{U}\2060^3050''',
    sector: 'Materials',
     website: 'www.yansab.com.sa'
},
     symbol: '2310:TADAWUL',
     tickerSymbol: '2310',
     name: 'Sipchem',
    name_ar: 'Ø3Ø"Ù\203Ù\212Ù\205',
     sector: 'Materials',
     website: 'www.sipchem.com'
},
     symbol: '2330:TADAWUL',
     tickerSymbol: '2330',
     name: 'Advanced',
    name_ar: 'ØSÙ\204Ù\205تÙ\202دÙ\205Ø©',
     sector: 'Materials',
     website: 'www.advancedpetrochem.com'
},
     symbol: '2350:TADAWUL',
     tickerSymbol: '2350',
     name: 'Saudi Kayan',
     sector: 'Materials',
     website: 'www.saudikayan.com'
},
     symbol: '2223:TADAWUL',
     tickerSymbol: '2223',
     name: 'Luberef',
    name_ar: 'Ù\204\bar{v}\210\bar{g}"\geta\tau\212\bar{v}\201',
sector: 'Energy',
vobelt: '
     website: 'www.luberef.com'
},
     symbol: '1301:TADAWUL',
     tickerSymbol: '1301',
     name: 'Aslak',
     name_ar: 'Ø£Ø3Ù\204اÙ\203',
     sector: 'Materials',
     website: 'www.aslak.com.sa'
},
     symbol: '1320:TADAWUL',
     tickerSymbol: '1320',
     name: 'SSP',
     name_ar: 'Ø3Ø"Ù\203Ù\212Ù\205',
     sector: 'Materials',
     website: 'www.ssp.com.sa'
},
     symbol: '2090: TADAWUL',
     tickerSymbol: '2090',
     name: 'NGC',
    name_ar: 'ذاز',
     sector: 'Materials',
     website: 'www.ngc.com.sa'
},
     symbol: '2200:TADAWUL',
     tickerSymbol: '2200',
     name: 'APC',
     name\_ar: \ ' \varnothing \S \grave{U} \backslash 204 \varnothing \pounds \varnothing ^3 \grave{U} \backslash 205 \varnothing ^- \varnothing \varnothing \ \varnothing \S \grave{U} \backslash 204 \varnothing ^1 \varnothing \pm \varnothing ^- \grave{U} \backslash 212 \varnothing \odot ',
     sector: 'Materials',
     website: 'www.apc.com.sa'
     symbol: '2240:TADAWUL',
     tickerSymbol: '2240',
     name: 'Zamil Industrial',
```

/Users/abdulazizdot/Desktop/customer-suppmert4-agen25/app/config/market.ts

```
name\_ar: \ ' \varnothing \S\grave{u} \backslash 204 \varnothing^2 \varnothing \S\grave{u} \backslash 205 \grave{u} \backslash 204 \ \grave{u} \backslash 204 \grave{u} \backslash 204 \varnothing \mu \grave{u} \backslash 206 \varnothing \S \varnothing^1 \varnothing \complement' \text{,}
                sector: 'Materials',
                website: 'www.zamilindustrial.com'
},
                symbol: '2360:TADAWUL',
                tickerSymbol: '2360',
                name: 'SVCP'
                name_ar: 'Ø$\dot{\}204\dot{\}201\@@Ø$\ر\dot{\}212\@@',
                sector: 'Materials',
                website: 'www.svcp.com.sa'
},
                symbol: '1304:TADAWUL',
                tickerSymbol: '1304',
                name: 'Alyamamah Steel',
                name_ar: \begin{subarray}{ll} $ \begin{suba
                sector: 'Materials',
                website: 'www.alyamamahsteel.com'
},
                symbol: '1321:TADAWUL',
                tickerSymbol: '1321',
                name: 'East Pipes',
                name_ar: 'Ø£Ù\206Ø$Ø"Ù\212Ø" Ø$Ù\204Ø'رÙ\202',
                sector: 'Materials',
                website: 'www.eastpipes.com'
                symbol: '1210:TADAWUL',
                tickerSymbol: '1210',
                name: 'BCI',
                sector: 'Materials',
                website: 'www.bci.com.sa'
},
                symbol: '1211:TADAWUL',
                tickerSymbol: '1211',
                name: 'Maaden',
               name_ar: 'ù\205ø¹ø§ø¯ù\206',
                sector: 'Materials',
                website: 'www.maaden.com.sa'
},
                symbol: '2150:TADAWUL',
                tickerSymbol: '2150',
                name: 'Zoujaj',
                name_ar: 'ØSÙ\204Ø2جØSج',
                sector: 'Materials',
                website: 'www.zoujaj.com'
                symbol: '2180:TADAWUL',
                tickerSymbol: '2180',
                name: 'FIPCO',
                name_ar: \dot{\dot{v}}\201\dot{\dot{v}}\212\dot{\phi}"\dot{\dot{v}}\203\dot{\dot{v}}\210',
                sector: 'Materials',
                website: 'www.fipco.com.sa'
},
                symbol: '2220:TADAWUL',
                tickerSymbol: '2220',
                name: 'Maadaniyah',
                name_ar: 'ù\205ø¹øsø⁻ù\206',
                sector: 'Materials',
                website: 'www.maadaniyah.com'
},
                symbol: '2300:TADAWUL',
                tickerSymbol: '2300',
                name: 'SPM',
                name_ar: 'Ø$\u00fc\\204\u00d93\u00fg"\u00fc\\203',
                sector: 'Materials',
                website: 'www.spm.com.sa'
},
                symbol: '3002:TADAWUL',
                tickerSymbol: '3002',
                name: 'Najran Cement'
                name_ar: \% \pm \emptyset^3 \dot{U} = \dot{U}
                sector: 'Materials',
                website: 'www.najrancement.com'
},
                symbol: '3003:TADAWUL',
```

```
tickerSymbol: '3003',
                     name: 'City Cement'
                    sector: 'Materials',
                     website: 'www.citycement.com.sa'
},
                    symbol: '3004:TADAWUL',
                     tickerSymbol: '3004',
                     name: 'Northern Cement'
                    name_ar: \% \pm \emptyset^3 \dot{U} = 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
                     sector: 'Materials',
                    website: 'www.northerncement.com'
},
                     symbol: '3010:TADAWUL',
                     tickerSymbol: '3010',
                    name: 'ACC',
                     name_ar: /\emptyset \pm \emptyset^3 \dot{U} \ 205 \dot{U} \ 206 \emptyset^a \ \emptyset \ \dot{U} \ 204 \emptyset^1 \emptyset \pm \emptyset'' \dot{U} \ 212 \emptyset \ 0',
                     sector: 'Materials',
                    website: 'www.arabiacement.com.sa'
},
                     symbol: '3020:TADAWUL',
                     tickerSymbol: '3020',
                    name: 'YC',
                    sector: 'Materials',
                    website: 'www.yanbu-cement.com'
},
                     symbol: '3030:TADAWUL',
                     tickerSymbol: '3030',
                     name: 'Saudi Cement',
                     name_ar: \% \pm \emptyset^3 \dot{U} = 0.05 \dot{U} = 0.04 \dot{U} = 0.04
                     sector: 'Materials',
                     website: 'www.saudicement.com.sa'
                     symbol: '3040:TADAWUL',
                    tickerSymbol: '3040',
                    name: 'QACCO',
                    name_ar: \%£\emptyset^3\dot{U}\205\dot{U}\206\emptyset^a \%$\dot{U}\204\dot{U}\202\emptyset\mu\dot{U}\212\dot{U}\205',
                     sector: 'Materials',
                     website: 'www.qcc.com.sa'
},
                     symbol: '3050:TADAWUL',
                     tickerSymbol: '3050',
                    name: 'SPCC',
                    name_ar: 'Ø£Ø3Ù\205Ù\206Øa اÙ\204جÙ\206Ù\210Ø"',
                     sector: 'Materials',
                    website: 'www.spcc.com.sa'
},
                     symbol: '3060:TADAWUL',
                     tickerSymbol: '3060',
                     name: 'YCC',
                    name_ar: \% \pm \emptyset^3 \dot{U} \times 205 \dot{U} \times 206  \dot{U} \times 212 \dot{U} \times 206  \dot{U} \times 212 \dot{U} \times 206 
                     sector: 'Materials',
                    website: 'www.yanbu-cement.com'
                     symbol: '3080:TADAWUL',
                     tickerSymbol: '3080',
                    name: 'EPCCO'
                    name_ar: /\emptyset \pm 0^3 \mathring{U} \times 205 \mathring{U} \times 2060^a \mathscr{O} \times \mathring{U} \times 202 \mathring{U
                     sector: 'Materials',
                     website: 'www.epcco.com.sa'
},
                     symbol: '3090:TADAWUL',
                     tickerSymbol: '3090',
                    name: 'TCC',
                     sector: 'Materials',
                     website: 'www.tcc.sa'
},
                     symbol: '3091:TADAWUL',
                     tickerSymbol: '3091',
                     name: 'Jouf Cement',
                     name_ar: \% \pm \emptyset^3 \dot{U} = 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
                     sector: 'Materials',
                     website: 'www.joufcement.com'
},
```

```
{
                symbol: '3005: TADAWUL',
                tickerSymbol: '3005',
                name: 'UACC',
                name_ar: /\emptyset \pm \emptyset^3 \dot{U} \ 205 \dot{U} \ 206 \emptyset^a \ \emptyset \ \dot{U} \ 204 \dot{U} \ 205 \emptyset^a \emptyset - \emptyset^- \emptyset \ 0',
                sector: 'Materials',
                website: 'www.uacc.com.sa'
},
                symbol: '3092:TADAWUL',
                tickerSymbol: '3092',
                name: 'Riyadh Cement'
                sector: 'Materials',
                website: 'www.riyadhcement.com.sa'
},
                symbol: '4142:TADAWUL',
                tickerSymbol: '4142',
                name: 'Riyadh Cables'
                name_ar: 'Ø$\dark{\dark}\203\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\psi\204\p
                sector: 'Capital Goods',
                website: 'www.riyadh-cables.com'
},
                symbol: '2160:TADAWUL',
                tickerSymbol: '2160',
                name: 'Amiantit'
                name_ar: \% \pm \hat{U} = 205\hat{U} = 2060^{\circ} \hat{U} = 2120^{\circ} \hat{U} 
                sector: 'Capital Goods',
                website: 'www.amiantit.com'
},
                symbol: '4140:TADAWUL',
                tickerSymbol: '4140',
                name: 'SIECO'
                name_ar: 'سÜ\212سÜ\203Ü\210', sector: 'Capital Goods',
                website: 'www.sieco.com.sa'
},
                symbol: '1212:TADAWUL',
                tickerSymbol: '1212',
                name: 'Astra Industrial',
                sector: 'Capital Goods',
                website: 'www.astraindustrial.com'
                symbol: '1302:TADAWUL',
                tickerSymbol: '1302',
                name: 'Bawan',
                name_ar: 'Ø"Ù\210ØSÙ\206',
sector: 'Capital Goods',
                website: 'www.bawan.com.sa'
},
                symbol: '2370: TADAWUL',
                tickerSymbol: '2370',
                name: 'MESC',
               name_ar: '\u00fg\205\00003\u00fg\203',
                sector: 'Capital Goods'
                website: 'www.mesc.com.sa'
},
                symbol: '1303:TADAWUL',
                tickerSymbol: '1303',
                name: 'EIC',
                name_ar: 'Ø¥Ù\212Ù\203',
                sector: 'Capital Goods'
                website: 'www.eic.com.sa'
                symbol: '1214:TADAWUL',
                tickerSymbol: '1214',
                name: 'Shaker'
                name_ar: 'Ø'Ø\S\grave{U}\203Ø\pm',
                sector: 'Capital Goods',
                website: 'www.shaker.com.sa'
},
                symbol: '2320:TADAWUL',
                tickerSymbol: '2320',
                name: 'Albabtain',
                name_ar: 'ØŞÜ\204Ø"ØŞØ"Ø•Ù\212Ù\206', sector: 'Capital Goods',
```

```
website: 'www.albabtain.com.sa'
},
              symbol: '2110:TADAWUL',
              tickerSymbol: '2110',
             name: 'Saudi Cable',
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              website: 'www.catrion.com.sa'
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              website: 'www.almawarid.com.sa'
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     website: 'www.saptco.com.sa'
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    name: 'Budget Saudi',
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    website: 'www.lumi.com.sa'
},
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    name_ar: 'Ø3اÙ\204',
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    website: 'www.sal.com.sa'
     symbol: '2190:TADAWUL',
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    name: 'SISCO Holding'
    name_ar: 'Ø3Ü\212Ø3Ü\203Ü\210', sector: 'Transportation',
     website: 'www.sisco.com.sa'
},
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     website: 'www.fitaihi.com.sa'
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     sector: 'Consumer Durables & Apparel',
     website: 'www.alaseel.com.sa'
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     website: 'www.lazurde.com'
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         website: 'www.artex.com.sa'
},
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         name_ar: 'Ø3Ù\212را',
         sector: 'Consumer Services',
         website: 'www.seera.sa'
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         name_ar: 'تÙ\212Ù\203Ù\210',
         sector: 'Consumer Services',
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         symbol: '1820:TADAWUL',
         tickerSymbol: '1820',
         name: 'Alhokair Group'
         name_ar: \dot{v}\205\phi \dot{v}\205\dot{v}\210\phi^1\phi \phi \dot{v}\204\phi \dot{v}\203\dot{v}\212\phi \dot{v},
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         website: 'www.alhokair.com.sa'
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         website: 'www.americana.com.sa'
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         website: 'www.leejam.com.sa'
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   sector: 'Consumer Services',
   website: 'www.ncle.com.sa'
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    sector: 'Consumer Services',
    website: 'www.ataa.com.sa'
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    sector: 'Consumer Services',
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   website: 'www.alkhaleej.com.sa'
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    name_ar: 'Ø•Ø$Ø"Ù\203Ù\210',
    sector: 'Media and Entertainment',
    website: 'www.taprco.com.sa'
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   name: 'SRMG',
    sector: 'Media and Entertainment',
    website: 'www.srmg.com'
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    symbol: '4071:TADAWUL',
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    sector: 'Media and Entertainment',
    website: 'www.alarabiya.com.sa'
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   website: 'www.mbc.net'
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    tickerSymbol: '4240',
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    sector: 'Consumer Discretionary Distribution & Retail',
    website: 'www.cenomi.com'
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    name_ar: 'Ø^3اØ^3\dot{U}\203\dot{U}\210',
    sector: 'Consumer Discretionary Distribution & Retail',
    website: 'www.sasco.com.sa'
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    sector: 'Consumer Staples Distribution & Retail',
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    name_ar: 'اÙ\204\\205\\206\\\205'.
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    website: 'www.almunajem.com'
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    name_ar: 'اÜ\204Ü\206Ü\207دÜ\212',
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    website: 'www.nahdi.sa'
    symbol: '4163:TADAWUL',
    tickerSymbol: '4163',
    name: 'Aldawaa',
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      website: 'www.thimar.com.sa'
},
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      name_ar: 'Ø£Ø3Û\210اÛ\202 اÛ\204Û\205Ø2رØ1Ø@',
      sector: 'Consumer Staples Distribution & Retail',
      website: 'www.farm.com.sa'
},
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      name_ar: 'Ø£Ù\206عاÙ\205',
      sector: 'Consumer Staples Distribution & Retail',
      website: 'www.anaam.com.sa'
      symbol: '6001:TADAWUL',
     tickerSymbol: '6001',
     name: 'HB',
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      sector: 'Food & Beverages',
      website: 'www.hb.com.sa'
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     website: 'www.firstmills.com.sa'
      symbol: '2284:TADAWUL',
      tickerSymbol: '2284',
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      website: 'www.modernmills.com.sa'
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      tickerSymbol: '2285',
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      website: 'www.arabianmills.com.sa'
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      sector: 'Food & Beverages',
      website: 'www.fourthmilling.com.sa'
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      tickerSymbol: '6010',
      name: 'NADEC'
     name_ar: '\dot{U}\2060\%'\dot{U}\203',
      sector: 'Food & Beverages',
      website: 'www.nadec.com.sa'
},
      symbol: '6020:TADAWUL',
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    name_ar: 'جÜ\203Ü\210',
    sector: 'Food & Beverages',
    website: 'www.gaco.com.sa'
},
    symbol: '6040: TADAWUL',
    tickerSymbol: '6040',
    name: 'TADCO',
    name_ar: 'تادÙ\203Ù\210',
    sector: 'Food & Beverages',
    website: 'www.tadco.com.sa
},
    symbol: '6050: TADAWUL',
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    name: 'SFICO',
    name_ar: '\emptyset\mu\dot{U}\201\dot{U}\203\dot{U}\210',
    sector: 'Food & Beverages',
    website: 'www.sfico.com.sa
},
    symbol: '6060: TADAWUL',
    tickerSymbol: '6060',
    name: 'Sharqiyah Dev'
    sector: 'Food & Beverages',
    website: 'www.sharqiyahdev.com.sa'
},
    symbol: '6070: TADAWUL',
    tickerSymbol: '6070',
    name: 'Aljouf',
    name_ar: 'اÙ\204جÙ\210Ù\201',
    sector: 'Food & Beverages',
    website: 'www.aljouf.com.sa'
    symbol: '6090: TADAWUL',
    tickerSymbol: '6090',
    name: 'Jazadco',
    name_ar: 'Ø\negازاØ^-\grave{U}\203\grave{U}\210',
    sector: 'Food & Beverages',
    website: 'www.jazadco.com'
},
    symbol: '2281:TADAWUL',
    tickerSymbol: '2281',
    name: 'Tanmiah',
    name_ar: 'Øaù\206ù\205ù\212Ø@',
    sector: 'Food & Beverages',
    website: 'www.tanmiah.com'
},
    symbol: '2050:TADAWUL',
    tickerSymbol: '2050',
    name: 'Savola Group',
    name_ar: \dot{\dot{U}}205\dot{\phi}\dot{\dot{U}}205\dot{\dot{U}}210\dot{\phi}1\dot{\phi}0\dot{\phi}0\dot{\phi}0\dot{\phi}0\dot{\dot{U}}201\dot{\dot{U}}210\dot{\dot{U}}204\dot{\phi}5\dot{\dot{V}}7,
    sector: 'Food & Beverages',
    website: 'www.savola.com'
    symbol: '2100:TADAWUL',
    tickerSymbol: '2100',
    name: 'Wafrah',
    name_ar: \dot{\mathbf{v}} = 10\dot{\mathbf{v}} = 10\dot{\mathbf{v}}
    sector: 'Food & Beverages',
    website: 'www.wafrah.com.sa'
},
    symbol: '2270:TADAWUL',
    tickerSymbol: '2270',
    name: 'SADAFCO',
    name_ar: 'Ø^3Ø^-Ø\S\mathring{U}\201\mathring{U}\203\mathring{U}\210',
    sector: 'Food & Beverages',
    website: 'www.sadafco.com'
},
    symbol: '2280:TADAWUL',
    tickerSymbol: '2280',
    name: 'Almarai',
    name_ar: \%$\dot{v}\204\dot{v}\205\phi±\phi$\phi1\dot{v}\212',
    sector: 'Food & Beverages',
    website: 'www.almarai.com'
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                                 website: 'www.equipmenthouse.com.sa'
 },
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                                 sector: 'Health Care Equipment & Services',
                                website: 'www.fakeeh.care'
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                                name: 'Ayyan',
                                 name_ar: '\emptyset^1\dot{U}\212\emptyset\S\dot{U}\206',
                                 sector: 'Health Care Equipment & Services',
                                website: 'www.ayyan.com.sa'
},
                                 symbol: '4013:TADAWUL',
                                 tickerSymbol: '4013',
                                name: 'Sulaiman Alhabib',
                                 sector: 'Health Care Equipment & Services',
                                 website: 'www.hmg.com.sa'
 },
                                 symbol: '4005:TADAWUL',
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                                name: 'Care',
                                 name_ar: 'رعاÙ\212Ø©',
                                 sector: 'Health Care Equipment & Services',
                                 website: 'www.care.com.sa'
                                 symbol: '4002:TADAWUL',
                                tickerSymbol: '4002',
                                name: 'Mouwasat',
                                 name_ar: 'Ø$\u00fc\204\u00e4\u00d210\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9\u00d9
                                 sector: 'Health Care Equipment & Services',
                                 website: 'www.mouwasat.com'
 },
                                 symbol: '4004:TADAWUL',
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                                name_ar: /\emptyset^-\dot{U}\204\dot{U}\207 /\emptyset$\dot{U}\204\not{U}\9-\dot{U}\212\not{U}\9.
                                 sector: 'Health Care Equipment & Services',
                                 website: 'www.dallah.com.sa'
 },
                                 symbol: '4007:TADAWUL',
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                                 name: 'Alhammadi',
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                                 sector: 'Health Care Equipment & Services',
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    sector: 'Insurance',
    website: 'www.amana.com.sa'
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},
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    name: 'Etihad Etisalat',
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    sector: 'Telecommunication Services',
    website: 'www.mobily.com.sa'
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    name: 'Zain KSA',
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         name_ar: 'Ø$\darkappa \lambda 204\darkappa \lambda 205\darkappa \darkappa \d
         sector: 'REITs',
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},
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         website: 'www.jadwareit.com'
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    sector: 'Software & Services',
    website: 'www.solutions.com.sa'
},
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    website: 'www.elm.com.sa'
},
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    name_ar: 'تÙ\210 Ø"Ù\212',
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    website: 'www.2p.com.sa'
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    name_ar: 'Ø$\daggrefar{\psi}\204\daggrefar{\psi}\204\daggrefar{\psi}\204\daggrefar{\psi}\204\daggrefar{\psi}\210\end{\psi}',
    sector: 'Household & Personal Products',
    website: 'www.almajedoud.com.sa'
    symbol: '9406:TADAWUL',
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    name: 'Albilad MSCI',
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                                              symbol: '9402:TADAWUL',
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                                            name_ar: 'ØŞÜ\204Ø£Ü\210Ù\204 Ø¥Ü\205 Ø*Ü\212 30', sector: 'Index Funds',
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                     website: 'www.sabhk.com'
            }
    // Helper functions
export function findSaudiSymbol(query: string) {
    const normalizedQuery = query.toLowerCase();
   return SAUDI SYMBOLS.find(stock =>
        stock.symbol.toLowerCase().includes(normalizedQuery) | |
        stock.tickerSymbol.toLowerCase().includes(normalizedQuery)
        stock.name.toLowerCase().includes(normalizedQuery) | |
        stock.name_ar.includes(query)
   );
export function getSectorCompanies(sector: string) {
    return SAUDI_SYMBOLS.filter(stock =>
        stock.sector.toLowerCase() === sector.toLowerCase()
export function formatSaudiSymbol(symbol: string | number) {
    const stock = SAUDI_SYMBOLS.find(s =>
        s.tickerSymbol === symbol.toString() | |
        s.symbol === symbol.toString()
    if (!stock) return `${symbol}:TADAWUL';
    return stock.symbol;
export function searchStocks(query: string) {
    const normalizedQuery = query.toLowerCase();
    return SAUDI_SYMBOLS.filter(stock =>
        stock.symbol.toLowerCase().includes(normalizedQuery) | |
        stock.tickerSymbol.toLowerCase().includes(normalizedQuery)
        stock.name.toLowerCase().includes(normalizedQuery) | |
        stock.name_ar.includes(query)
        stock.sector.toLowerCase().includes(normalizedQuery) | |
        stock.website.toLowerCase().includes(normalizedQuery)
   );
1
export function getAllSymbols() {
   return SAUDI_SYMBOLS.map(stock => stock.symbol);
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagefntl/app/hooks/useMarketSocket.ts

```
// // hooks/useMarketSocket.ts
// import { useEffect, useRef, useState } from 'react';
// import { WS_URL, API_KEY, MarketQuote } from '@/app/config/market';
// export function useMarketSocket(symbols: string[]) {
    const [quotes, setQuotes] = useState<Record<string, MarketQuote>>({});
     const ws = useRef<WebSocket | null>(null);
    useEffect(() => {
      if (!symbols.length) return;
      // Create WebSocket connection
      ws.current = new WebSocket('${WS_URL}?apikey=${API_KEY}');
      ws.current.onopen = () => {
        console.log('WebSocket Connected');
        if (ws.current?.readyState === WebSocket.OPEN) {
          // Subscribe to symbols
          ws.current.send(JSON.stringify({
            action: 'subscribe',
            params: {
              symbols: symbols.join(',')
          }));
        }
      };
      ws.current.onmessage = (event) => {
        const data = JSON.parse(event.data);
        if (data.event === 'price') {
          setQuotes(prev => ({
             ...prev,
            [data.symbol]: {
              ...prev[data.symbol],
              symbol: data.symbol,
              name: prev[data.symbol]?.name || data.symbol,
              price: parseFloat(data.price),
              timestamp: data.timestamp,
              change: parseFloat(data.change) | 0,
              percentChange: parseFloat(data.percent_change) | | 0,
              volume: parseInt(data.volume) || 0
          3));
        }
      };
      ws.current.onerror = (error) => {
        console.error('WebSocket error:', error);
      return () => {
        if (ws.current) {
          ws.current.close();
      };
     }, [symbols]);
     return quotes;
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagefn8/app/hooks/useSaudiMarket.ts

```
// // hooks/useSaudiMarket.ts
// import { useState, useEffect } from 'react';
// interface SaudiStock {
    symbol: string;
   name: string;
    currency: string;
    exchange: string;
   mic_code: string;
    country: string;
    type: string;
// interface StockQuote {
   symbol: string;
// price: string;
   change: string;
percent_change: string;
    volume: string;
    timestamp: string;
1/ }
// interface RealTimeData {
// price: number;
    change: number;
   percentChange: number;
    volume: number;
    timestamp: string;
// interface StockData {
    stock: SaudiStock;
    quote?: StockQuote;
    realTimeData?: RealTimeData;
// interface WebSocketMessage {
   event: string;
    symbol: string;
   price: string;
change: string;
    percent_change: string;
     volume: string;
    timestamp: string;
// export function useSaudiMarket() {
    const [stocks, setStocks] = useState<StockData[]>([]);
    const [loading, setLoading] = useState(true);
    const [error, setError] = useState<string | null> (null);
//
    const [selectedTimeframe, setSelectedTimeframe] = useState('1day');
     const fetchSaudiMarketData = async () => {
      try {
        setLoading(true);
        // Fetch Saudi stocks list
        const stocksResponse = await fetch(
_API_KEY} '
           https://api.twelvedata.com/stocks?country=Saudi Arabia&apikey=${process.env.NEXT_PUBLIC_TWELVE_DATA
        ) ;
        if (!stocksResponse.ok) {
          throw new Error('Failed to fetch stocks list');
        const stocksData = await stocksResponse.json();
        const stocksList: SaudiStock[] = stocksData.data | stocksData;
        // Take first 20 stocks to avoid rate limits
        const stocksToFetch = stocksList.slice(0, 20);
        const symbols = stocksToFetch.map(stock => stock.symbol).join(',');
         // Fetch quotes for all stocks at once
        const quotesResponse = await fetch(
           if (!quotesResponse.ok) {
          throw new Error ('Failed to fetch quotes');
        const quotesData = await quotesResponse.json();
        let quotesArray: StockQuote[];
        if (Array.isArray(quotesData)) {
```

/Users/abdulazizdot/Desktop/customer-suppaget2agefn8/app/hooks/useSaudiMarket.ts

```
quotesArray = quotesData;
   } else if (quotesData.data) {
     quotesArray = Array.isArray(quotesData.data) ? quotesData.data : [quotesData.data];
   } else {
      quotesArray = [quotesData];
   // Combine stocks with their quotes
   const combinedData = stocksToFetch.map(stock => {
     const quote = quotesArray.find(q => q.symbol === stock.symbol);
     return {
       stock,
       quote,
       realTimeData: quote ? {
         price: parseFloat(quote.price),
         change: parseFloat (quote.change),
         percentChange: parseFloat(quote.percent_change),
          volume: parseInt(quote.volume),
         timestamp: quote.timestamp
        } : undefined
     1:
   });
   setStocks(combinedData);
   setupWebSocket(symbols.split(','));
   setError(null);
 } catch (err) {
   console.error('Error fetching market data:', err);
   setError(err instanceof Error ? err.message : 'An error occurred');
  } finally :
   setLoading(false);
const setupWebSocket = (symbols: string[]) => {
 const ws = new WebSocket(
    'wss://ws.twelvedata.com/v1/quotes/price?apikey=${process.env.NEXT_PUBLIC_TWELVE_DATA_API_KEY}'
 ws.onopen = () => {
   ws.send(JSON.stringify({
     action: 'subscribe',
     params: {
       symbols: symbols.join(',')
   }));
 };
 ws.onmessage = (event: MessageEvent) => {
      const data = JSON.parse(event.data) as WebSocketMessage;
      if (data.event === 'price') {
       setStocks(prev => prev.map(stock => {
         if (stock.stock.symbol === data.symbol) {
           return {
              ...stock,
              realTimeData: {
                price: parseFloat(data.price),
                change: parseFloat(data.change),
                percentChange: parseFloat(data.percent_change),
                volume: parseInt(data.volume),
                timestamp: data.timestamp
           };
          return stock;
       }));
   } catch (error) {
      console.error('WebSocket message parsing error:', error);
 };
 ws.onerror = (error: Event) => {
   console.error('WebSocket error:', error);
  };
 return () => {
   if (ws.readyState === WebSocket.OPEN) {
      ws.close();
 };
useEffect(() => {
  fetchSaudiMarketData();
```

/Users/abdulazizdot/Desktop/customer-suppaget-3agefnt3/app/hooks/useSaudiMarket.ts

```
// Refresh data every minute
const interval = setInterval(fetchSaudiMarketData, 60000);
return () => clearInterval(interval);
}, [selectedTimeframe]);

// const changeTimeframe = (timeframe: string) => {
    setSelectedTimeframe(timeframe);
};

// return {
    stocks,
    loading,
    error,
    selectedTimeframe,
    changeTimeframe,
    refreshData: fetchSaudiMarketData
// };
// }
```

```
// /app/lib/context/financeContextUtils.ts
import { FinancialMetadata } from './types';
export class FinanceContextAnalyzer {
  private static readonly FINANCIAL_INSTRUMENTS = [
    'stock', 'bond', 'etf', 'option', 'future', 'forex', 'crypto', 'dividend', 'mutual fund', 'index', 'commodity'
  1:
  private static readonly TECHNICAL_INDICATORS = [
    'moving average', 'MACD', 'RSI', 'bollinger', 'support', 'resistance', 'trend', 'volatility'
                                                        'volume', 'momentum',
  1:
  private static readonly FUNDAMENTAL_FACTORS = [
    'earnings', 'revenue', 'profit', 'margin', 'PE ratio', 'market cap', 'dividend yield', 'cash flow', 'debt', 'assets'
  private static readonly MARKET_KEYWORDS = [
    'bull', 'bear', 'volatile', 'correction', 'crash', 'rally', 'uptick', 'downturn', 'market', 'trade', 'buy', 'sell'
  public static analyzeFinancialMessage(message: string): FinancialMetadata {
    const words = message.toLowerCase().split(/\s+/);
    return {
      instruments: this.extractFinancialInstruments(message),
      companies: this.extractCompanies(message),
      markets: this.extractMarkets(message).
      metrics: this.extractMetrics(message),
      timeframes: this.extractTimeframes(message),
      sentiment: this.analyzeMarketSentiment(message),
      confidenceScore: this.calculateConfidenceScore(message),
      riskLevel: this.assessRiskLevel (message),
      technicalIndicators: this.extractTechnicalIndicators(message),
      fundamentalFactors: this.extractFundamentalFactors(message)
    };
  private static extractFinancialInstruments(message: string): string[] {
    const text = message.toLowerCase();
    return this.FINANCIAL_INSTRUMENTS.filter(instrument =>
      text.includes(instrument)
  private static extractCompanies(message: string): string[] {
    // Look for potential company names (capitalized words)
    const companies = new Set<string>();
    const words = message.split(/\s+/);
    for (let i = 0; i < words.length; i++) {</pre>
      const word = words[i];
      if (word.length > 1 &&
           word[0] === word[0].toUpperCase() &&
           word[1] === word[1].toLowerCase()) {
        companies.add(word);
       // Check for stock symbols (uppercase letters)
      if (word.match(/^\$?[A-Z]{1,5}$/)) {
        companies.add(word);
      }
    return Array.from(companies);
  private static extractMarkets(message: string): string[] {
    const commonMarkets = [
      'NYSE', 'NASDAQ', 'DOW', 'S&P', 'FTSE', 'market',
      'exchange', 'trading'
    return commonMarkets.filter(market =>
      message.toLowerCase().includes(market.toLowerCase())
  private static extractMetrics(message: string): string[] {
    const commonMetrics = [
  'price', 'volume', 'volatility', 'return', 'yield',
      'ratio', 'growth', 'loss', 'gain', 'percentage'
    1;
```

```
return commonMetrics.filter(metric =>
    message.toLowerCase().includes(metric)
  ) :
private static extractTimeframes(message: string): string[] {
  const timeframes = [
    'day', 'week', 'month', 'year', 'quarter', 'short-term', 'long-term', 'intraday'
  return timeframes.filter(timeframe =>
   message.toLowerCase().includes(timeframe)
private static analyzeMarketSentiment(message: string): 'bullish' | 'bearish' | 'neutral' {
  const text = message.toLowerCase();
  const bullishWords = ['buy', 'bull', 'up', 'growth', 'positive', 'increase'];
const bearishWords = ['sell', 'bear', 'down', 'decline', 'negative', 'decrease'];
  let sentiment = 0;
  bullishWords.forEach(word => {
   if (text.includes(word)) sentiment++;
  bearishWords.forEach(word => {
   if (text.includes(word)) sentiment--;
  if (sentiment > 0) return 'bullish';
  if (sentiment < 0) return 'bearish';</pre>
  return 'neutral';
private static calculateConfidenceScore(message: string): number {
  let score = 0.5; // Base confidence
  // Increase confidence based on presence of specific data
  if (this.extractMetrics(message).length > 0) score += 0.1;
  if (this.extractTechnicalIndicators(message).length > 0) score += 0.1;
  if (this.extractFundamentalFactors(message).length > 0) score += 0.1;
  // Cap the score at 1.0
  return Math.min(score, 1.0);
private static assessRiskLevel(message: string): 'low' | 'medium' | 'high' {
  const text = message.toLowerCase();
  const highRiskWords = ['volatile', 'risky', 'speculation', 'aggressive'];
  const lowRiskWords = ['safe', 'conservative', 'stable', 'defensive'];
  let riskScore = 0;
  highRiskWords.forEach(word => {
    if (text.includes(word)) riskScore++;
  });
  lowRiskWords.forEach(word => {
   if (text.includes(word)) riskScore--;
  if (riskScore > 0) return 'high';
  if (riskScore < 0) return 'low';</pre>
  return 'medium';
private static extractTechnicalIndicators(message: string): string[] {
  return this.TECHNICAL_INDICATORS.filter(indicator =>
   message.toLowerCase().includes(indicator)
 );
private static extractFundamentalFactors(message: string): string[] {
 return this.FUNDAMENTAL_FACTORS.filter(factor =>
    message.toLowerCase().includes(factor)
  );
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagefit/app/lib/context/types.ts

```
// /app/lib/context/types.ts
export interface FinancialMetadata {
                                            // Mentioned financial instruments
    instruments?: string[];
    companies?: string[];
                                           // Mentioned companies
                                           // Mentioned markets/exchanges
    markets?: string[];
                                           // Financial metrics discussed
    metrics?: string[];
                                          // Timeframes mentioned
    timeframes?: string[];
    sentiment?: 'bullish' | 'bearish' | 'neutral';
    confidenceScore?: number;
                                          // Confidence in financial analysis
    riskLevel?: 'low' | 'medium' | 'high';
    technicalIndicators?: string[]; // Technical analysis indicators
                                         // Fundamental analysis factors
    fundamentalFactors?: string[];
  export interface Message {
    id: string;
    role: 'user' | 'assistant';
    content: string;
    timestamp: number;
   metadata: FinancialMetadata;
  export interface MarketContext {
    currentMarketHours: boolean;
    marketConditions: 'bull' | 'bear' | 'neutral';
    volatilityLevel: 'low' | 'medium' | 'high';
    majorIndices: {
      [key: string]: {
        value: number;
        change: number;
        changePercent: number;
      } ;
    } ;
  export interface ConversationContext {
    conversationId: string;
    messages: Message[];
    activeInstruments: string[];
    activeTechnicalAnalysis: boolean;
    fundamentalAnalysisActive: boolean;
    marketContext?: MarketContext;
    lastUpdated: number;
    userPreferences?: {
      preferredMarkets?: string[];
      riskTolerance?: 'conservative' | 'moderate' | 'aggressive';
preferredTimeframe?: 'short' | 'medium' | 'long';
technicalAnalysisLevel?: 'basic' | 'intermediate' | 'advance
    };
  export interface ContextWindow {
    maxSize: number;
    currentSize: number;
    priorityThreshold: number;
    recentMessages: Message[];
    marketSnapshots: MarketContext[];
    keyInsights: string[];
  export type ContextPriority = 'critical' | 'high' | 'medium' | 'low';
  export interface ContextScore {
    messageId: string;
    marketRelevance: number:
    timeRelevance: number;
    instrumentRelevance: number;
    userPriorityScore: number;
    finalScore: number;
```

```
// /app/lib/context/financeContextManager.ts
import {
 Message,
 ConversationContext,
 ContextWindow,
 ContextScore,
 ContextPriority,
 MarketContext,
 FinancialMetadata
} from './types';
export class FinanceContextManager {
 private readonly maxWindowSize: number;
 private contexts: Map<string, ConversationContext>;
 private activeWindow: ContextWindow;
 private marketContext: MarketContext;
 constructor(maxWindowSize: number = 4096) {
   this.maxWindowSize = maxWindowSize;
   this.contexts = new Map();
   this.activeWindow = {
     maxSize: maxWindowSize
     currentSize: 0,
     priorityThreshold: 0.7,
     recentMessages: [].
     marketSnapshots: [],
     keyInsights: []
   this.marketContext = {
     currentMarketHours: false,
     marketConditions: 'neutral',
volatilityLevel: 'low',
     majorIndices: {}
   };
 private calculateFinancialContextScore(message: Message, currentTime: number): ContextScore {
   const timeRelevance = Math.exp(-(currentTime - message.timestamp) / (1000 * 60 * 60));
   const metadata = message.metadata;
   let marketRelevance = 0.5:
   if (metadata) {
     if (metadata.instruments?.length) marketRelevance += 0.1;
     if (metadata.markets?.length) marketRelevance += 0.1;
     if (metadata.technicalIndicators?.length) marketRelevance += 0.1;
     if (metadata.fundamentalFactors?.length) marketRelevance += 0.1;
   let instrumentRelevance = 0.5;
   if (metadata?.instruments?.length) {
     instrumentRelevance = 0.7;
      if (this.isActiveInstrument(metadata.instruments[0])) {
       instrumentRelevance = 0.9;
   }
   let userPriorityScore = 0.5;
   if (metadata) {
     if (metadata.riskLevel === 'high') userPriorityScore += 0.2;
     if (metadata.confidenceScore && metadata.confidenceScore > 0.8) userPriorityScore += 0.1;
   return {
     messageId: message.id,
     marketRelevance.
     timeRelevance,
     instrumentRelevance,
     userPriorityScore,
     finalScore: (
       marketRelevance * 0.3 +
       timeRelevance * 0.2 +
       instrumentRelevance * 0.3 +
       userPriorityScore * 0.2
   };
 private isActiveInstrument(instrument: string): boolean {
   const contexts = Array.from(this.contexts.values());
   return contexts.some(context =>
     context.activeInstruments.includes(instrument)
```

public addMessage(conversationId: string, message: Message): void {

```
let context = this.contexts.get(conversationId);
  if (!context) {
    context = {
      conversationId,
     messages: [],
      activeInstruments: [],
      activeTechnicalAnalysis: false,
      fundamentalAnalysisActive: false,
      lastUpdated: Date.now(),
     userPreferences: {
       preferredMarkets: [],
       riskTolerance: 'moderate',
       preferredTimeframe: 'medium'
        technicalAnalysisLevel: 'basic'
    };
    this.contexts.set(conversationId, context);
  if (message.metadata?.instruments) {
    context.activeInstruments = Array.from(new Set([
      ...context.activeInstruments,
      ...message.metadata.instruments
   ]));
  if (message.metadata?.technicalIndicators?.length) {
   context.activeTechnicalAnalysis = true;
  if (message.metadata?.fundamentalFactors?.length) {
    context.fundamentalAnalysisActive = true;
  context.messages.push (message);
  context.lastUpdated = Date.now();
  this.updateActiveWindow(context);
private updateActiveWindow(context: ConversationContext): void {
  const currentTime = Date.now():
  const scoredMessages = context.messages
   .map (msg => ({
     message: msg,
     score: this.calculateFinancialContextScore(msg.currentTime)
    .sort((a, b) => b.score.finalScore - a.score.finalScore);
  this.activeWindow.recentMessages = scoredMessages
    .filter(scored => scored.score.finalScore > this.activeWindow.priorityThreshold)
    .map(scored => scored.message)
    .slice(0, Math.floor(this.maxWindowSize / 2));
  this.activeWindow.keyInsights = this.extractFinancialInsights(
   scoredMessages.slice(0, 5).map(scored => scored.message)
  if (this.shouldTakeMarketSnapshot(context)) {
    this.activeWindow.marketSnapshots.push({ ...this.marketContext });
private shouldTakeMarketSnapshot(context: ConversationContext): boolean {
  const latestMessage = context.messages[context.messages.length - 1];
  return Boolean (
    latestMessage.metadata?.markets?.length
    (this.marketContext.volatilityLevel === 'high' && Math.random() > 0.7)
 );
private extractFinancialInsights(messages: Message[]): string[] {
  const insights = new Set<string>();
  messages.forEach(message => {
    const metadata = message.metadata;
    if (metadata) {
      if (metadata.technicalIndicators?.length) {
       insights.add('Technical Analysis: ${metadata.technicalIndicators.join(', ')}');
      if (metadata.fundamentalFactors?.length) {
        insights.add('Fundamental Factors: ${metadata.fundamentalFactors.join(', ')}');
      if (metadata.sentiment) {
```

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```
insights.add('Market Sentiment: ${metadata.sentiment}');
      if (metadata.riskLevel) {
        insights.add('Risk Level: ${metadata.riskLevel}');
    }
  });
  return Array.from(insights);
public getContextForPrompt(conversationId: string): string {
  const context = this.contexts.get(conversationId);
  if (!context) return '';
  const relevantMessages = this.activeWindow.recentMessages
    .map(msg \Rightarrow {
      const metadata = msg.metadata;
      return `${msg.role}: ${msg.content}
      ${metadata ?
      Instruments: ${metadata.instruments?.join(', ') | 'none'}
      Technical Indicators: ${metadata.technicalIndicators?.join(', ') |  'none'}
      Sentiment: ${metadata.sentiment | 'neutral'}
Risk Level: ${metadata.riskLevel | 'medium'}`: ''}`;
    })
    .join(' \n\n');
  const marketContext = this.activeWindow.marketSnapshots.length > 0
    ? '\nCurrent Market Context:
      Market Hours: ${this.marketContext.currentMarketHours ? 'Open' : 'Closed'}
      Conditions: ${this.marketContext.marketConditions}
      Volatility: ${this.marketContext.volatilityLevel}'
  const insights = this.activeWindow.keyInsights.length > 0
    ? \n Insights:\n { this.activeWindow.keyInsights.join(' \n')} `
  return '${marketContext}\n${insights}\n\nRecent Discussion:\n${relevantMessages}';
public updateMarketContext(newContext: Partial<MarketContext>): void {
  this.marketContext = { ...this.marketContext, ...newContext };
public getActiveInstruments(conversationId: string): string[]
  return this.contexts.get(conversationId)?.activeInstruments | [];
public getCurrentMarketContext(): MarketContext {
  return this.marketContext;
public getKeyInsights(conversationId: string): string[] {
  return this.activeWindow.keyInsights;
```

```
// /app/lib/context/financeAnalyzer.ts
import { SAUDI_SYMBOLS } from '@/app/config/market';
import { CompanyContext } from './types';
export class FinanceAnalyzer {
  // Known financial instruments and companies
  private static readonly SAUDI_MARKET_TERMS = new Set([
     'tadawul', 'saudi stock', 'saudi market', 'tasi', 'nomu'
    'parallel market', 'main market', 'saudi exchange', 'cma
  private static readonly TECHNICAL_INDICATORS = new Set([
    'RSI', 'MACD', 'moving average', 'bollinger bands', 'support', 'resistance', 'volume', 'momentum', 'trend', 'breakout', 'consolidation', 'divergence', 'fibonacci', 'chart pattern', 'candlestick', 'oscillator', 'volatility',
    'EMA', 'SMA', 'price action', 'trend line', 'head and shoulders',
    'double top', 'double bottom', 'triangle pattern', 'flag pattern'
  private static readonly FUNDAMENTAL_FACTORS = new Set([
    'PE ratio', 'P/E', 'EPS', 'revenue', 'earnings', 'profit margin', 'cash flow', 'debt', 'assets', 'liabilities', 'market cap', 'dividend', 'book value',
    'ROE', 'ROI', 'EBITDA', 'gross margin', 'operating margin', 'net margin', 'PEG ratio', 'debt to equity', 'current ratio', 'quick ratio',
    'dividend yield', 'payout ratio', 'price to book', 'price to sales
  1);
  private static readonly SECTORS = new Set(
   Array.from(new Set(SAUDI_SYMBOLS.map(stock => stock.sector)))
  private static readonly RISK_TERMS = {
    high: ['volatile', 'risky', 'speculative', 'aggressive', 'unstable', 'uncertain'],
medium: ['moderate', 'balanced', 'mixed', 'neutral'],
low: ['safe', 'stable', 'conservative', 'defensive', 'reliable']
  private static readonly SENTIMENT_TERMS = {
    private static readonly COMPANY_RELATED_TERMS = new Set([
    'revenue', 'profit', 'earnings', 'growth', 'performance', 'management',
'strategy', 'market share', 'competition', 'expansion', 'dividend',
'announcement', 'report', 'guidance', 'forecast', 'outlook',
    'CEO', 'executive', 'board', 'shareholders', 'stock', 'shares', 'price', 'valuation', 'target', 'rating', 'upgrade', 'downgrade'
  public static analyzeFinancialContext(
    message: string,
    currentCompany?: CompanyContext
    confidence: number;
    companies: Arrav<{
      symbol: string:
      name: string;
       sector?: string;
      isContinuedDiscussion: boolean;
    }>;
    technicalIndicators: string[];
    fundamentalFactors: string[];
    sectors: string[];
    riskLevel: 'low' | 'medium' | 'high';
    sentiment: 'bullish' | 'bearish' | 'neutral';
    analysisType: 'technical' | 'fundamental' | 'mixed' | 'general';
    marketContext: {
      isSaudiMarket: boolean;
      mentionedMarket?: string;
    };
    companyContext: {
      hasExplicitMention: boolean;
       continuedDiscussion: boolean;
      discussionTopics: string[];
    };
  } {
    const text = message.toLowerCase();
    // Analyze company context first
    const companiesAnalysis = this.analyzeCompanyContext(text, currentCompany);
```

```
// Extract all indicators and factors
  const technical = this.extractTechnicalIndicators(text);
  const fundamental = this.extractFundamentalFactors(text);
  const sectors = this.extractSectors(text);
  // Determine market context
  const isSaudiMarket = this.checkSaudiMarketContext(text);
  // Analyze sentiment with company context
  const sentiment = companiesAnalysis.companies.length > 0
    ? this.analyzeSentimentWithContext(text, companiesAnalysis.companies[0])
    : this.determineSentiment(text);
  // Determine analysis type
  const analysisType = this.determineAnalysisType(
    technical.length,
    fundamental.length,
    {\tt companiesAnalysis.discussionTopics}
  );
  // Calculate confidence score
  const confidence = this.calculateConfidence({
    technical: technical.length,
    fundamental: fundamental.length,
    sectors: sectors.length,
    hasExplicitCompany: companiesAnalysis.hasExplicitMention,
    isContinuedDiscussion: companiesAnalysis.continuedDiscussion,
    messageLength: text.split(/\s+/).length,
    hasNumbers: /\d+/.test(text),
    isQuestion: text.includes('?'),
    isSaudiMarket
  });
  return {
    confidence,
    companies: companiesAnalysis.companies.
    technicalIndicators: technical,
    fundamentalFactors: fundamental,
    sectors,
    riskLevel: this.assessRiskLevel(text),
    sentiment.
    analysisType,
    marketContext: {
      isSaudiMarket.
     mentionedMarket: isSaudiMarket ? 'Tadawul' : undefined
    companyContext: {
      hasExplicitMention: companiesAnalysis.hasExplicitMention,
      continuedDiscussion: companiesAnalysis.continuedDiscussion,
      discussionTopics: companiesAnalysis.discussionTopics
  };
private static analyzeCompanyContext(
  text: string,
  currentCompany?: CompanyContext
  const companies: Array<{</pre>
    symbol: string;
    name: string;
    sector?: string;
    isContinuedDiscussion: boolean;
  }> = [];
  const discussionTopics: string[] = [];
  let hasExplicitMention = false;
  let continuedDiscussion = false;
  // First check for explicit company mentions
  SAUDI_SYMBOLS.forEach(stock => {
    if (
      text.includes(stock.tickerSymbol.toLowerCase()) | |
      text.includes(stock.name.toLowerCase()) | |
      (stock.name_ar && text.includes(stock.name_ar.toLowerCase()))
    ) {
      companies.push({
        symbol: stock.symbol,
        name: stock.name,
        sector: stock.sector.
        isContinuedDiscussion: false
      });
      hasExplicitMention = true;
  });
```

```
// If no explicit mentions but we have a current company
  if (companies.length === 0 && currentCompany) {
    const hasRelatedTerms = Array.from(this.COMPANY_RELATED_TERMS)
      .some(term => text.includes(term.toLowerCase()));
    if (hasRelatedTerms) {
      companies.push({
        symbol: currentCompany.symbol,
        name: currentCompany.name,
        sector: currentCompany.sector,
        isContinuedDiscussion: true
      });
      continuedDiscussion = true;
    }
  // Extract discussion topics
  if (companies.length > 0) {
    discussionTopics.push(
      ...this.extractTechnicalIndicators(text),
      ...this.extractFundamentalFactors(text),
      ...Array.from(this.COMPANY_RELATED_TERMS)
        .filter(term => text.includes(term.toLowerCase()))
    );
  return {
    companies,
    hasExplicitMention,
    continuedDiscussion,
   discussionTopics: Array.from(new Set(discussionTopics))
  };
private static checkSaudiMarketContext(text: string): boolean {
  return Array.from(this.SAUDI MARKET TERMS)
    .some(term => text.includes(term.toLowerCase()));
private static extractTechnicalIndicators(text: string): string[] {
  return Arrav.from(this.TECHNICAL INDICATORS)
    .filter(indicator => text.includes(indicator.toLowerCase()));
private static extractFundamentalFactors(text: string): string[] {
  return Array.from(this.FUNDAMENTAL FACTORS)
    .filter(factor => text.includes(factor.toLowerCase()));
private static extractSectors(text: string): string[] {
  return Array.from(this.SECTORS)
    .filter(sector => text.includes(sector.toLowerCase()));
private static analyzeSentimentWithContext(
  text: string,
  company: { symbol: string; name: string }
): 'bullish' | 'bearish' | 'neutral' {
  // Look for sentiment near company mentions
  const words = text.split(/\s+/);
  const companyIndex = words.findIndex(word =>
    word.includes(company.name.toLowerCase()) | |
    word.includes(company.symbol.toLowerCase())
  if (companyIndex !== -1) {
    // Analyze sentiment in company context (5 words before and after)
    const start = Math.max(0, companyIndex - 5);
    const end = Math.min(words.length, companyIndex + 6);
    const contextText = words.slice(start, end).join(' ');
    return this.determineSentiment(contextText);
  return this.determineSentiment(text);
private static determineSentiment(text: string): 'bullish' | 'bearish' | 'neutral' {
  let score = 0:
  for (const term of this.SENTIMENT_TERMS.bullish) {
   if (text.includes(term)) score += 1;
     (const term of this.SENTIMENT_TERMS.bearish) {
   if (text.includes(term)) score -= 1;
```

```
if (score > 1) return 'bullish';
  if (score < -1) return 'bearish';</pre>
  return 'neutral';
private static assessRiskLevel(text: string): 'low' | 'medium' | 'high' {
  let score = 0;
  for (const term of this.RISK_TERMS.high) {
    if (text.includes(term)) score += 2;
  for (const term of this.RISK_TERMS.low) {
   if (text.includes(term)) score -= 2;
  if (text.includes('hedge') | text.includes('diversif')) score -= 1;
  if (text.includes('leverage') | text.includes('margin')) score += 1;
  if (score > 2) return 'high';
  if (score < -1) return 'low';</pre>
  return 'medium';
private static determineAnalysisType(
  technicalCount: number,
  fundamentalCount: number.
 topics: string[]
): 'technical' | 'fundamental' | 'mixed' | 'general' {
 const hasCompanySpecific = topics.some(topic =>
   this.COMPANY_RELATED_TERMS.has(topic)
  );
  if (technicalCount > 0 && fundamentalCount > 0) {
   return 'mixed';
  if (technicalCount > 0) {
    return 'technical';
  if (fundamentalCount > 0 | hasCompanySpecific) {
   return 'fundamental';
  return 'general';
private static calculateConfidence(factors: {
  technical: number;
  fundamental: number;
  sectors: number;
  hasExplicitCompany: boolean;
  isContinuedDiscussion: boolean;
 messageLength: number;
  hasNumbers: boolean;
  isQuestion: boolean;
  isSaudiMarket: boolean;
}): number {
  let confidence = 0.5; // Base confidence
  // Company context factors
  if (factors.hasExplicitCompany) confidence += 0.2;
  if (factors.isContinuedDiscussion) confidence += 0.1;
  // Analysis depth factors
  if (factors.technical > 0) confidence += 0.1;
  if (factors.fundamental > 0) confidence += 0.1;
  if (factors.sectors > 0) confidence += 0.05;
  // Message quality factors
  if (factors.hasNumbers) confidence += 0.05;
  if (factors.isQuestion) confidence += 0.05;
  if (factors.isSaudiMarket) confidence += 0.1;
  // Penalize very short messages
  if (factors.messageLength < 3) confidence -= 0.2;</pre>
  // Ensure confidence stays within bounds
  return Math.max(0.1, Math.min(0.95, confidence));
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagefntl/app/lib/pdf-utils.ts

```
// app/lib/pdf-utils.ts
import { encode } from 'base64-js';
export async function convertPDFToBase64(file: File): Promise<string> {
  return new Promise((resolve, reject) => {
    const reader = new FileReader();
    reader.onload = () => {
     const arrayBuffer = reader.result as ArrayBuffer;
      const uint8Array = new Uint8Array(arrayBuffer);
      const base64String = encode(uint8Array);
     resolve(base64String);
    };
    reader.onerror = reject;
    reader.readAsArrayBuffer(file);
 });
export interface PDFMessage {
 role: 'user';
  content: {
   type: 'document' | 'text';
   source?: {
     type: 'base64';
     media_type: 'application/pdf';
     data: string;
   } ;
    text?: string;
 }[];
}
export function createPDFMessage (base64Data: string, query: string): PDFMessage {
 return {
  role: 'user',
    content: [
     {
       type: 'document',
        source: {
  type: 'base64',
          media_type: 'application/pdf',
          data: base64Data
        }
      },
        type: 'text',
        text: query
   ]
 } ;
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagefn2/app/lib/utils.ts

```
import {
 BedrockAgentRuntimeClient,
 RetrieveCommand.
 RetrieveCommandInput,
} from "@aws-sdk/client-bedrock-agent-runtime";
import { type ClassValue, clsx } from "clsx";
import { twMerge } from "tailwind-merge";
console.log("ö\237\224\221 Have AWS AccessKey?", !!process.env.BAWS_ACCESS_KEY_ID);
console.log("o\237\224\221 Have AWS Secret?", !!process.env.BAWS_SECRET_ACCESS_KEY);
const bedrockClient = new BedrockAgentRuntimeClient({
 region: "us-east-1", // Make sure this matches your Bedrock region
  credentials: {
    accessKeyId: process.env.BAWS_ACCESS_KEY_ID!,
   secretAccessKey: process.env.BAWS_SECRET_ACCESS_KEY!,
 },
});
export function cn(...inputs: ClassValue[]) {
 return twMerge(clsx(inputs));
export interface RAGSource {
  id: string;
 fileName: string:
 snippet: string;
 score: number;
export async function retrieveContext (
  query: string,
 knowledgeBaseId: string,
 n: number = 3,
): Promise<{
 context: string;
 isRagWorking: boolean;
 ragSources: RAGSource[];
}> {
 try {
    if (!knowledgeBaseId) {
      console.error("knowledgeBaseId is not provided");
      return {
       context: "",
        isRagWorking: false,
       ragSources: [],
      };
    const input: RetrieveCommandInput = {
      knowledgeBaseId: knowledgeBaseId.
      retrievalQuery: { text: query },
      retrievalConfiguration: {
       vectorSearchConfiguration: { numberOfResults: n },
      }.
    };
    const command = new RetrieveCommand(input);
    const response = await bedrockClient.send(command);
    // Parse results
    const rawResults = response?.retrievalResults || [];
    const ragSources: RAGSource[] = rawResults
      .filter((res: any) => res.content && res.content.text)
      .map((result: any, index: number) => {
        const uri = result?.location?.s3Location?.uri | "";
        const fileName = uri.split("/").pop() | 'Source-${index}.txt';
        return {
            result.metadata?.["x-amz-bedrock-kb-chunk-id"] || 'chunk-${index}',
          fileName: fileName.replace(/_/g, " ").replace(".txt", ""),
snippet: result.content?.text || "",
          score: result.score | | 0,
        };
      })
      .slice(0, 1);
    console.log("ŏ\237\224\215 Parsed RAG Sources:", ragSources); // Debug log
    const context = rawResults
      .filter((res: any) => res.content && res.content.text)
      .map((res: any) => res.content.text)
      .join("\n");
    return {
```

/Users/abdulazizdot/Desktop/customer-suppaget-2agent2/app/lib/utils.ts

```
context,
   isRagWorking: true,
   ragSources,
};
} catch (error) {
   console.error("RAG Error:", error);
   return { context: "", isRagWorking: false, ragSources: [] };
}
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagefntl/app/lib/api/market.ts

```
// // lib/api/market.ts
// const TWELVE_DATA_API_KEY = process.env.NEXT_PUBLIC_TWELVE_DATA_API_KEY;
// const BASE_URL = 'https://api.twelvedata.com';
// export const DEFAULT_SYMBOLS = [
     'AAPL', 'AMZN', 'MSFT', 'NVDA', 'TSLA', 'GOOGL', 'V', 'TSM', 'BRK.A', 'WMT'
// ];
// export async function getQuotes(symbols: string[] = DEFAULT_SYMBOLS) {
//
//
//
     try {
       const response = await fetch(
         `\$\{BASE\_URL\}/quote?symbol=\$\{symbols.join(',')\}\&apikey=\$\{TWELVE\_DATA\_API\_KEY\}`
      const data = await response.json();
//
//
//
//
//
// }
       return Array.isArray(data) ? data : [data];
     } catch (error) {
      console.error('Error fetching quotes:', error);
       return [];
// export async function getTimeSeries(
// symbol: string,
// interval: strin
    interval: string = '1day',
// 01
    outputsize: number = 252 // One year of trading days
//
      const response = await fetch(
         `${BASE_URL}/time_series?symbol=${symbol}&interval=${interval}&outputsize=${outputsize}&apikey=${TWELV
E_DATA_API_KEY}
//
       );
       const data = await response.json();
       return data.values | | [];
    } catch (error) {
       console.error('Error fetching time series:', error);
       return [];
```

/Users/abdulazizdot/Desktop/customer-suppaget lagefntl/app/lib/services/saudi-market.ts

```
// // services/saudi-market.ts
// import { API_KEY, API_URL } from '@/app/config/market';
// export interface SaudiSymbol {
   symbol: string;
11
    name: string;
//
    currency: string;
    exchange: string;
mic_code: string;
    type: string;
     logo_url?: string; // Will be added from another API or local storage
// export async function fetchSaudiSymbols(): Promise<SaudiSymbol[]> {
     try {
//
       // Fetch all stocks with Saudi Arabia filter
       const response = await fetch(
         '${API_URL}/stocks?country=Saudi Arabia&apikey=${API_KEY}'
       if (!response.ok) {
        throw new Error('Failed to fetch Saudi stocks');
      const data = await response.json();
       const stocks = Array.isArray(data) ? data : data.data || [];
       // Map and add logo URLs
       // We'll need to either:
       // 1. Use another API to get logos
       // 2. Store logos locally
       // 3. Generate placeholder logos
       return stocks.map(stock => ({
         ...stock,
         logo_url: '/logos/${stock.symbol}.png' // This path will need to be adjusted
       }));
//
//
//
//
// }
    } catch (error) {
       console.error('Error fetching Saudi symbols:', error);
       throw error:
// // Function to get logo URL for a symbol
// export async function getCompanyLogo(symbol: string): Promise<string> {
     // We can implement this in several ways:
     // 1. Use a financial API that provides logos
    // 2. Scrape from Tadawul website
     // 3. Store logos locally
    // 4. Generate placeholder logos
     // For now, return a placeholder
    return 'https://ui-avatars.com/api/?name=${encodeURIComponent(symbol)}&background=random';
// // Function to get company details
// export interface CompanyDetails {
   symbol: string;
//
    name: string;
    sector: string;
industry: string;
//
     website?: string;
    description?: string;
    market_cap?: number;
    employees?: number;
     ceo?: string;
     headquarters?: string;
     founded?: string;
// export async function getCompanyDetails(symbol: string): Promise<CompanyDetails | null> {
     try {
//
//
//
      // This would need to be implemented with actual data source
       // Could be from Tadawul API or another financial data provider
       return null;
     } catch (error)
       console.error('Error fetching details for ${symbol}:', error);
       return null;
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagefntb/app/lib/services/saudiFundamentals.ts

```
import { API_KEY, API_URL, SAUDI_SYMBOLS } from '@/app/config/market';
export class SaudiFundamentals {
 private static readonly CACHE_DURATION = 300000; // 5 minutes
  private static cache: Map<string, { data: any; timestamp: number }> = new Map();
 private static async fetchWithCache(url: string): Promise<any> {
   const cached = this.cache.get(url);
   if (cached && Date.now() - cached.timestamp < this.CACHE_DURATION) {</pre>
     return cached.data;
   const response = await fetch(url);
   if (!response.ok) {
     throw new Error('HTTP error! status: ${response.status}');
   const data = await response.json();
   this.cache.set(url, { data, timestamp: Date.now() });
 static async getFundamental(symbol: string): Promise<FundamentalData | null> {
      const stockInfo = SAUDI_SYMBOLS.find(s => s.symbol === symbol);
     if (!stockInfo) return null;
      const formattedSymbol = stockInfo.tickerSymbol;
      // Fetch fundamental data and quarterly results in parallel
      const [fundamentals, quarterlyResults] = await Promise.all([
        this.fetchWithCache('${API_URL}/fundamentals?symbol=${formattedSymbol}&apikey=${API_KEY}'),
        this.fetchWithCache('${API_URL}/income-statement?symbol=${formattedSymbol}&period=quarter&apikey=${API_
KEY } ')
      1);
      // Calculate growth metrics
      const growth = this.calculateGrowthMetrics(quarterlyResults);
      return {
        symbol: stockInfo.symbol,
        name: stockInfo.name,
        sector: stockInfo.sector,
        earnings_per_share: this.safeNumber(fundamentals.eps),
        dividend_yield: this.safeNumber(fundamentals.dividend_yield),
       book value: this.safeNumber(fundamentals.book_value),
        beta: this.safeNumber(fundamentals.beta),
        financial_ratios: {
          quick_ratio: this.safeNumber(fundamentals.quick_ratio),
          current_ratio: this.safeNumber(fundamentals.current_ratio),
          debt_to_equity: this.safeNumber(fundamentals.debt_to_equity),
          gross_margin: this.safeNumber(fundamentals.gross_margin),
          operating_margin: this.safeNumber(fundamentals.operating_margin),
          net_profit_margin: this.safeNumber(fundamentals.net_profit_margin),
          return_on_assets: this.safeNumber(fundamentals.roa),
         return_on_equity: this.safeNumber(fundamentals.roe),
        valuation_metrics: {
         price_earnings: this.safeNumber(fundamentals.pe_ratio),
          price to book: this.safeNumber(fundamentals.price to book ratio),
         price to sales: this.safeNumber(fundamentals.price to sales ratio).
          enterprise_value: this.safeNumber(fundamentals.enterprise_value),
          market_cap: this.safeNumber(fundamentals.market_cap)
       growth metrics: growth
      }:
   } catch (error) {
      console.error('Error fetching fundamental metrics:', error);
      return null:
  static async getSectorAnalysis(sector: string): Promise<SectorMetrics | null> {
   try {
      const sectorCompanies = SAUDI SYMBOLS.filter(stock => stock.sector === sector);
      const fundamentalsPromises = sectorCompanies.map(company =>
       this.getFundamental(company.symbol)
      const results = await Promise.allSettled(fundamentalsPromises);
      const validResults = results
        .filter((result): result is PromiseFulfilledResult<FundamentalData | null> =>
          result.status === 'fulfilled' && result.value !== null
        .map(result => result.value!);
```

```
if (!validResults.length) return null;
    // Calculate sector averages
    const averages = this.calculateSectorAverages(validResults);
    const performance = this.calculateSectorPerformance(validResults);
   return {
     sector.
      average_pe: averages.pe,
      average_dividend_yield: averages.dividendYield,
      average_market_cap: averages.marketCap,
     best_performer: performance.best,
      worst_performer: performance.worst,
      total_market_cap: validResults.reduce((sum, company) =>
       sum + company.valuation_metrics.market_cap, 0
     companies count: validResults.length
    }:
  } catch (error) {
    console.error('Error in sector analysis:', error);
    return null:
private static calculateGrowthMetrics(quarterlyResults: any[]): GrowthMetrics {
  // Ensure we have at least 2 quarters of data
  if (!Array.isArray(quarterlyResults) || quarterlyResults.length < 2) {</pre>
    return {
     revenue_growth: 0,
      earnings_growth: 0,
     dividend_growth: 0
   };
  const current = quarterlyResults[0];
  const previous = quarterlyResults[1];
   revenue_growth: this.calculateGrowthRate(current.revenue, previous.revenue),
    earnings_growth: this.calculateGrowthRate(current.net_income, previous.net_income),
   dividend_growth: this.calculateGrowthRate(current.dividends, previous.dividends)
  };
private static calculateGrowthRate(current: number, previous: number): number {
  if (!previous) return 0;
  return ((current - previous) / Math.abs(previous)) * 100;
private static safeNumber(value: any, defaultValue: number = 0): number {
 const parsed = parseFloat(value);
  return isNaN(parsed) ? defaultValue : parsed;
private static calculateSectorAverages(companies: FundamentalData[]): {
  pe: number:
  dividendYield: number:
  marketCap: number;
  const sum = companies.reduce((acc, company) => ({
   pe: acc.pe + company.valuation_metrics.price_earnings,
    dividendYield: acc.dividendYield + company.dividend_yield,
    marketCap: acc.marketCap + company.valuation_metrics.market_cap
  }), { pe: 0, dividendYield: 0, marketCap: 0 });
  const count = companies.length;
  return {
   pe: sum.pe / count,
    dividendYield: sum.dividendYield / count,
   marketCap: sum.marketCap / count
  };
private static calculateSectorPerformance(companies: FundamentalData[]): {
  best: { symbol: string; name: string; return: number };
  worst: { symbol: string; name: string; return: number };
  const withReturns = companies.map(company => ({
   symbol: company.symbol,
   name: company.name,
   return: company.growth_metrics?.earnings_growth || 0
  }));
  withReturns.sort((a, b) => b.return - a.return);
  return {
```

/ Users/abdulazizdot/Desktop/customer-suppaget-3 agem 6/app/lib/services/saudiFundamentals.ts

```
best: withReturns[0],
    worst: withReturns[withReturns.length - 1]
    };
}
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagefnt5/app/api/chat/route.ts

```
// /app/api/chat/route.ts
import Anthropic from "@anthropic-ai/sdk";
import { z } from "zod";
import crypto from "crypto";
import { FinanceAnalyzer } from "@/app/lib/context/financeAnalyzer";
import { FinanceContextManager } from "@/app/lib/context/financeContextManager";
import { FinanceContextAnalyzer } from "@/app/lib/context/financeContextUtils";
import { SaudiMarketHandler } from "@/app/market/saudiMarketHandler";
import { SaudiFundamentals } from '@/app/lib/services/saudiFundamentals';
// Initialize Anthropic client
const anthropic = new Anthropic({
  apiKey: process.env.ANTHROPIC_API_KEY,
  defaultHeaders: {
    "anthropic-beta": "pdfs-2024-09-25"
 }
});
// Initialize singleton context manager
const contextManager = new FinanceContextManager();
// Enhanced response schema with Saudi market data
const responseSchema = z.object({
  response: z.string(),
 thinking: z.string(),
 user_mood: z.enum(["positive", "neutral", "negative", "curious", "frustrated", "confused"]),
  suggested_questions: z.array(z.string()),
  financial_context: z.object({
    instruments_mentioned: z.array(z.string()),
   market_sentiment: z.enum(["bullish", "bearish", "neutral"]),
risk_level: z.enum(["low", "medium", "high"]),
    confidence_score: z.number(),
    technical_indicators: z.array(z.string()),
    fundamental_factors: z.array(z.string()),
    sectors: z.array(z.string()),
    economic_indicators: z.array(z.string()),
    analysis_type: z.enum(["technical", "fundamental", "mixed", "general"]),
    market_data: z.object({
      quotes: z.array(z.object({
        symbol: z.string().
        name: z.string(),
        price: z.number().nonnegative(),
        change: z.number().default(0),
        percent_change: z.number().default(0),
        volume: z.number().nonnegative().default(0),
        timestamp: z.string().optional(),
        sector: z.string().optional()
      })).default([]),
     market_details: z.object({
       exchange: z.string(),
        currency: z.string(),
        trading_hours: z.string(),
       data_delay: z.string()
      }).optional(),
      recent_performance: z.array(z.any()).optional()
    }).optional().nullable(),
    key_insights: z.array(z.string())
 debug: z.object({
    context used: z.boolean().
    market_data_used: z.boolean(),
    context_confidence: z.number(),
    analysis_quality: z.string()
 })
});
export async function POST(req: Request) {
 try {
    const { messages, pdfData, conversationId = crypto.randomUUID() } = await req.json();
    const latestMessage = messages[messages.length - 1].content;
    // Analyze financial context
    const baseAnalysis = FinanceAnalyzer.analyzeFinancialContext(latestMessage);
    const contextAnalysis = FinanceContextAnalyzer.analyzeFinancialMessage(latestMessage);
    // Analyze Saudi market specific companies and sectors
    const saudiMarketAnalysis = await SaudiMarketHandler.analyzeMentionedCompanies(latestMessage);
    // Fetch financial data for mentioned companies
    const financialDataPromises = saudiMarketAnalysis.companies.map(company =>
     SaudiFundamentals.getFundamentals(company.symbol)
    const financialDataResults = await Promise.all(financialDataPromises);
    // Combine all analyses
```

/Users/abdulazizdot/Desktop/customer-suppaget-2agefnt5/app/api/chat/route.ts

```
const combinedAnalysis = {
  ...baseAnalysis,
  confidence: Math.max(baseAnalysis.confidence, contextAnalysis.confidenceScore | 0),
  sentiment: contextAnalysis.sentiment | baseAnalysis.sentiment,
  technicalIndicators: [
    ...new Set([
      ...baseAnalysis.technicalIndicators,
      ...(contextAnalysis.technicalIndicators | [])
   ])
  fundamentalFactors: [
    ...new Set([
      ...baseAnalysis.fundamentalFactors,
      ...(contextAnalysis.fundamentalFactors | [])
  1,
  sectors: Array.from(saudiMarketAnalysis.sectors)
// Update context manager
const messageContext = {
 id: crypto.randomUUID(),
  role: 'user',
  content: latestMessage,
  timestamp: Date.now(),
 metadata: {
    instruments: combinedAnalysis.instruments.
    sentiment: combinedAnalysis.sentiment,
    riskLevel: combinedAnalysis.riskLevel,
    confidenceScore: combinedAnalysis.confidence,
    technicalIndicators: combinedAnalysis.technicalIndicators,
    fundamental Factors: \verb|combinedAnalysis.fundamentalFactors|,
    topics: combinedAnalysis.sectors,
    markets: combinedAnalysis.instruments
};
contextManager.addMessage(conversationId, messageContext);
const historicalContext = contextManager.getContextForPrompt(conversationId);
// Get market data for mentioned companies
let marketData = null;
if (saudiMarketAnalysis.companies.length > 0) {
  const companyData = await Promise.all(
    saudiMarketAnalysis.companies.slice(0, 3).map(company =>
      SaudiMarketHandler.getCompanyData(company.symbol)
   )
 );
  // Integrate financial data with market data
 marketData = {
    quotes: saudiMarketAnalysis.companies.map((company, index) => ({
       ..company,
      fundamentals: financialDataResults[index]
   market_details: companyData[0]?.market_details,
    recent_performance: companyData[0]?.recent_performance
// Build system context based on analysis
let systemContext = [
  "You are a highly knowledgeable Saudi market financial advisor and analyst.",
  combinedAnalysis.analysisType === 'technical' && "Focus on technical analysis and chart patterns.",
  combinedAnalysis.analysisType === 'fundamental' && "Focus on fundamental analysis and company metrics.",
  combinedAnalysis.riskLevel === 'high' && "Be sure to emphasize risk factors and potential downsides.",
  historicalContext && 'Previous context: ${historicalContext}',
  marketData && 'Current market data: ${JSON.stringify(marketData)}',
  'Current market sentiment: ${combinedAnalysis.sentiment}',
  'Analysis confidence: ${(combinedAnalysis.confidence * 100).toFixed(1)}%'
].filter(Boolean).join("\n");
 // Prepare message content
const messageContent = pdfData ? [{
  role: 'user',
  content: [
      type: 'document',
      source: {
       type: 'base64',
       media_type: 'application/pdf',
        data: pdfData,
      },
    },
      type: 'text',
```

/Users/abdulazizdot/Desktop/customer-suppaget-3agefnt5/app/api/chat/route.ts

```
text: latestMessage,
     },
   ],
 }]:[{
   role: 'user',
   content: [{
     type: 'text',
     text: '${systemContext}\n\nUser query: ${latestMessage}'
   }],
 }];
 // Get response from Claude
 const response = await anthropic.messages.create({
   model: "claude-3-5-sonnet-20241022",
   max_tokens: 4096,
   messages: messageContent,
 });
 // Generate suggested questions based on context
 const suggestedQuestions = generateFinancialQuestions(
   combinedAnalysis,
    contextManager.getKeyInsights(conversationId),
   saudiMarketAnalysis
 );
 // Calculate analysis quality
 const analysisQuality = calculateAnalysisQuality(
   combinedAnalysis,
   historicalContext,
   saudiMarketAnalysis
 // Prepare response data
 const responseData = {
   response: response.content[0].text,
   thinking: "Analyzing Saudi market data and financial context",
   {\tt user\_mood:} \ {\tt determineUserMood(latestMessage, combinedAnalysis)} \ ,
    suggested_questions: suggestedQuestions,
    financial_context: {
     instruments_mentioned: combinedAnalysis.instruments,
     market sentiment: combinedAnalysis.sentiment,
     risk_level: combinedAnalysis.riskLevel,
     confidence_score: combinedAnalysis.confidence,
     technical_indicators: combinedAnalysis.technicalIndicators,
     fundamental_factors: combinedAnalysis.fundamentalFactors,
     sectors: combinedAnalysis.sectors,
     economic_indicators: combinedAnalysis.economicIndicators,
     analysis_type: combinedAnalysis.analysisType,
     market data: marketData.
     key_insights: contextManager.getKeyInsights(conversationId)
   debug: {
     context_used: !!historicalContext,
     market_data_used: !!marketData,
     context_confidence: contextManager.qetActiveInstruments(conversationId).length > 0 ? 0.9 : 0.5,
     analysis_quality: analysisQuality
 };
 // Validate response
 const validatedResponse = responseSchema.parse(responseData);
 return new Response(JSON.stringify({
   id: crypto.randomUUID(),
   conversationId,
    ...validatedResponse,
 }), {
    status: 200,
   headers: { "Content-Type": "application/json" }
 });
} catch (error) {
 console.error("Error in chat handler:", error);
 return new Response(
    JSON.stringifv({
     response: "An error occurred while processing your Saudi market query. Please try again.",
     thinking: "Error in analysis",
      user_mood: "frustrated",
     suggested_questions: [
        "Would you like to view the current market overview?",
        "Should we look at a specific sector instead?",
       "Would you like to know about top performing stocks?"
      financial_context: {
        instruments_mentioned: [],
       market_sentiment: "neutral",
```

```
risk_level: "medium",
          confidence score: 0,
          technical indicators: [],
          fundamental_factors: [],
          sectors: [],
          economic_indicators: [],
          analysis_type: "general",
          market_data: null,
          key_insights: []
        debug: {
          context used: false,
          market_data_used: false,
          context_confidence: 0,
          analysis_quality: "error"
      }),
        status: 500,
        headers: { "Content-Type": "application/json" }
   );
 }
function generateFinancialOuestions(
 analysis: any,
 insights: string[],
 marketAnalysis: { companies: any[], sectors: Set<string> }
): string[] {
  const questions = [];
  // Add Saudi market specific questions
  if (marketAnalysis.companies.length > 0) {
    const company = marketAnalysis.companies[0];
    questions.push(
      'What's your analysis of ${company.name}'s recent performance?',
      'How does ${company.name} compare to its sector peers?'
   );
 if (marketAnalysis.sectors.size > 0) {
    const sector = Array.from(marketAnalysis.sectors)[0];
    questions.push(
       'What's your outlook for the ${sector} sector?',
      'Which companies in the ${sector} sector show the most promise?'
  // Add analysis-type specific questions
 if (analysis.technicalIndicators.length > 0) {
    questions.push(
      'How do the ${analysis.technicalIndicators[0]} levels compare to historical trends?'
 if (analysis.fundamentalFactors.length > 0) {
    questions.push (
      'How do these ${analysis.fundamentalFactors[0]} metrics compare to sector averages?'
   );
  // Add general market questions if needed
 if (questions.length < 3) {
    questions.push(
      "What are the key factors driving the Saudi market today?",
      "Which sectors are showing the strongest momentum?",
      "How might current economic conditions affect the market?"
   );
  // Return top 3 most relevant questions
  return questions.slice(0, 3);
function determineUserMood(
 message: string,
  analysis: any
): "positive" | "neutral" | "negative" | "curious" | "frustrated" | "confused" {
 const text = message.toLowerCase();
 if (text.includes('help') |  text.includes('?')) return 'curious';
if (text.includes('wrong') | text.includes('error')) return 'frustrated';
 if (text.includes('not sure') | text.includes('confused')) return 'confused';
 if (analysis.confidence > 0.8) {
```

/Users/abdulazizdot/Desktop/customer-suppaget-5agefnt5/app/api/chat/route.ts

```
return analysis.sentiment === 'bullish' ? 'positive' :
           analysis.sentiment === 'bearish' ? 'negative' : 'neutral';
 return analysis.confidence < 0.5 ? 'curious' : 'neutral';</pre>
function calculateAnalysisQuality(
 analysis: any,
 historicalContext: string | null,
 marketAnalysis: { companies: any[], sectors: Set<string> }
): string {
 const factors = {
   hasCompanies: marketAnalysis.companies.length > 0,
    hasSectors: marketAnalysis.sectors.size > 0,
    hasTechnical: analysis.technicalIndicators.length > 0,
   hasFundamental: analysis.fundamentalFactors.length > 0,
   hasHistory: !!historicalContext,
   highConfidence: analysis.confidence > 0.7
 const score = Object.values(factors).filter(Boolean).length;
 if (score >= 5) return 'excellent';
 if (score >= 3) return 'good';
if (score >= 1) return 'fair';
 return 'limited';
```

```
// /app/lib/market/saudiMarketHandler.ts
import { API_KEY, API_URL, SAUDI_SYMBOLS, SAUDI_MARKET } from '@/app/config/market';
import { SaudiFundamentals } from '@/app/lib/services/saudiFundamentals';
interface SaudiQuote {
 symbol: string;
 name: string;
 name_ar?: string;
 price: number;
 change: number;
 percent_change: number;
 volume: number;
 timestamp: string;
 sector?: string;
 fundamentals?: {
   price_earnings: number;
   earnings_per_share: number;
   dividend_yield: number;
   market_cap: number;
   financial_ratios: {
     quick_ratio: number;
      current_ratio: number;
      debt_to_equity: number;
     net_profit_margin: number;
   };
  };
  sector_comparison?: {
   sector_avg_pe: number;
   sector_avg_dividend_yield: number;
   sector_position: 'above_average' | 'below_average' | 'average';
}
export class SaudiMarketHandler {
 private static formatTadawulSymbol(symbol: string): string {
   // Remove any existing suffixes
   const cleanSymbol = symbol.replace(/\.(SAU TADAWUL)$/, '');
   // Add Tadawul suffix
   return `${cleanSymbol}:Tadawul`;
 private static safeParseNumber(value: any): number {
   if (value === null || value === undefined) return 0;
   const parsed = parseFloat(value);
   return isNaN(parsed) ? 0 : parsed;
 private static async fetchWithRetry(url: string, retries = 3): Promise<any> {
   let lastError;
   for (let i = 0; i < retries; i++) {</pre>
     try {
        const response = await fetch(url);
       if (!response.ok) {
          console.log('Response not OK:', await response.text());
          throw new Error('HTTP error! status: ${response.status}');
       const data = await response.json();
       console.log('Fetched data:', data); // Debug log
       return data;
      } catch (error)
       console.error('Attempt ${i + 1} failed:', error);
        lastError = error;
       await new Promise(resolve => setTimeout(resolve, 1000 * (i + 1)));
   throw lastError;
 private static formatTimestamp(timestamp: number | string): string {
   if (typeof timestamp === 'number') {
     // Convert UNIX timestamp to ISO string
      return new Date(timestamp * 1000).toISOString();
   return timestamp | new Date().toISOString();
 private static safeParseQuote(data: any, stockInfo: any): SaudiQuote {
   const quote = {
      symbol: stockInfo.tickerSymbol,
      name: stockInfo.name,
     name_ar: stockInfo.name_ar,
     price: this.safeParseNumber(data.close | data.price),
      change: this.safeParseNumber(data.change),
```

```
percent_change: this.safeParseNumber(data.percent_change),
    volume: this.safeParseNumber(data.volume),
    timestamp: this.formatTimestamp(data.timestamp),
    sector: stockInfo.sector,
    trading_info: {
      open: this.safeParseNumber(data.open),
      high: this.safeParseNumber(data.high),
      low: this.safeParseNumber(data.low).
      previous_close: this.safeParseNumber(data.previous_close),
      is_market_open: data.is_market_open || false,
fifty_two_week: data.fifty_two_week || {
        low: 0,
        high: 0.
        low_change: 0,
        high change: 0,
        low_change_percent: 0,
        high_change_percent: 0,
        range: 'N/A
      }
    }
  console.log('Parsed quote:', quote); // Debug log
  return quote;
static async getQuote(query: string): Promise<SaudiQuote | null> {
  trv {
    const stockInfo = SAUDI_SYMBOLS.find(stock =>
     stock.tickerSymbol === query ||
      stock.name.toLowerCase().includes(query.toLowerCase()) | |
      (stock.name_ar && stock.name_ar.includes(query))
    ):
    if (!stockInfo) {
      console.log('Stock not found for query:', query);
      return null:
    const formattedSymbol = this.formatTadawulSymbol(stockInfo.tickerSymbol);
    const url = `${API_URL}/quote?symbol=${formattedSymbol}&apikey=${API_KEY}';
    console.log('Fetching URL:', url); // Debug log
    const data = await this.fetchWithRetry(url);
    return this.safeParseQuote(data, stockInfo);
  } catch (error) {
    console.error('Error fetching quote for ${query}:', error);
    return null;
static async getQuotes(queries: string[]): Promise<SaudiQuote[]> {
  try {
    const validStocks = queries
     .map(query => SAUDI_SYMBOLS.find(stock =>
        stock.tickerSymbol === query |
        stock.name.toLowerCase().includes(query.toLowerCase())
        (stock.name_ar && stock.name_ar.includes(query))
      ))
      .filter((stock): stock is typeof SAUDI_SYMBOLS[0] => stock !== undefined);
    if (!validStocks.length) return [];
    const symbols = validStocks
      .map(stock => this.formatTadawulSymbol(stock.tickerSymbol))
      .join(',');
    console.log('Fetching quotes for symbols:', symbols); // Debug log
    const url = `${API_URL}/quote?symbol=${symbols}&apikey=${API_KEY}';
    const data = await this.fetchWithRetry(url);
    const quotesData = Array.isArray(data) ? data : [data];
    return quotesData.map((quote, index) =>
     this.safeParseQuote(quote, validStocks[index])
  } catch (error) {
    console.error('Error fetching Saudi market quotes:', error);
    return []:
static async getCompanyData(query: string): Promise<any> {
  try {
    const stockInfo = SAUDI_SYMBOLS.find(stock =>
      stock.tickerSymbol === query ||
      stock.name.toLowerCase().includes(query.toLowerCase()) | |
```

/Users/abdulazizdot/Desktop/customer-suppaget 3agefn 5/app/market/saudiMarketHandler.ts

```
(stock.name_ar && stock.name_ar.includes(query))
    if (!stockInfo) return null;
    const formattedSymbol = this.formatTadawulSymbol(stockInfo.tickerSymbol);
    const [quote, timeSeries] = await Promise.all([
      this.getQuote(stockInfo.tickerSymbol),
      this.fetchWithRetry(
        `${API_URL}/time_series?symbol=${formattedSymbol}&interval=1day&outputsize=5&apikey=${API_KEY}`
    1);
    return {
     recent_performance: timeSeries.values | [],
     market_details: {
        ...SAUDI_MARKET,
       sector: stockInfo.sector
    1:
  } catch (error) {
    console.error('Error fetching Saudi company data:', error);
    return null;
static async analyzeMentionedCompanies(text: string): Promise<{</pre>
  companies: SaudiQuote[];
  sectors: Set<string>;
}> {
 try {
    const mentionedStocks = SAUDI_SYMBOLS.filter(stock =>
     text.toLowerCase().includes(stock.name.toLowerCase()) |
      text.includes(stock.tickerSymbol) ||
      (stock.name_ar && text.includes(stock.name_ar))
    );
    console.log('Found mentioned stocks:', mentionedStocks); // Debug log
    const guotes = await this.getOuotes(
     mentionedStocks.map(stock => stock.tickerSymbol)
    const sectors = new Set(
     mentionedStocks.map(stock => stock.sector)
    return {
     companies: quotes,
     sectors
    console.error('Error analyzing mentioned companies:', error);
    return {
     companies: [],
     sectors: new Set()
  }
static async getMarketOverview(): Promise<any> {
  try {
    // Key market indicators
    const mainSymbols = [
      '1120', // Al Rajhi Bank
     '2222', // Saudi Aramco
     '7010', // STC
'2010' // SABIC
    const quotes = await this.getQuotes(mainSymbols);
    return {
     market_info: SAUDI_MARKET,
     timestamp: new Date().toISOString()
  } catch (error) {
    console.error('Error fetching market overview:', error);
    return null:
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagefmtl/app/globals.css

```
@tailwind base;
@tailwind components;
@tailwind utilities;
@layer base {
    :root {
       --background: 0 0% 100%;
        --foreground: 0 0% 3.9%;
        --card: 0 0% 100%;
        --card-foreground: 0 0% 3.9%;
        --popover: 0 0% 100%;
        --popover-foreground: 0 0% 3.9%;
        --primary: 0 0% 9%;
        --primary-foreground: 0 0% 98%;
        --secondary: 0 0% 96.1%;
        --secondary-foreground: 0 0% 9%;
        --muted: 0 0% 96.1%;
        --muted-foreground: 0 0% 45.1%;
        --accent: 0 0% 96.1%;
        --accent-foreground: 0 0% 9%;
        --destructive: 0 84.2% 60.2%;
        --destructive-foreground: 0 0% 98%;
        --border: 0 0% 89.8%;
        --input: 0 0% 89.8%;
        --ring: 0 0% 3.9%;
        --radius: 0.75rem;
        --chart-1: 12 76% 61%;
        --chart-2: 173 58% 39%;
        --chart-3: 197 37% 24%;
        --chart-4: 43 74% 66%;
        --chart-5: 27 87% 67%;
    .dark {
        --background: 0 0% 3.9%;
        --foreground: 0 0% 98%;
        --card: 0 0% 3.9%;
        --card-foreground: 0 0% 98%;
        --popover: 0 0% 3.9%;
        --popover-foreground: 0 0% 98%;
        --primary: 0 0% 98%;
        --primary-foreground: 0 0% 9%;
        --secondary: 0 0% 14.9%;
        --secondary-foreground: 0 0% 98%;
        --muted: 0 0% 14.9%;
        --muted-foreground: 0 0% 63.9%;
        --accent: 0 0% 14.9%;
        --accent-foreground: 0 0% 98%;
        --destructive: 0 62.8% 30.6%;
        --destructive-foreground: 0 0% 98%;
        --border: 0 0% 14.9%;
        --input: 0 0% 14.9%;
        --ring: 0 0% 83.1%;
        --chart-1: 220 70% 50%;
        --chart-2: 160 60% 45%;
        --chart-3: 30 80% 55%;
        --chart-4: 280 65% 60%;
        --chart-5: 340 75% 55%;
    }
@layer base {
        @apply border-border;
   body {
        @apply bg-background text-foreground;
```

/Users/abdulazizdot/Desktop/customer-suppaget1agefnt2/code_to_pdf.sh

```
#!/bin/bash
# Function to print usage
print_usage() {
    echo "Usage: $0 <output_pdf> <directory1> [<directory2> ...]"
    echo "Example: $0 all_code.pdf /path/to/project1 /path/to/project2"
# Check if at least two arguments are provided
if [ $# -1t 2 ]; then
   print_usage
    exit 1
# Output PDF file name
OUTPUT="$1"
shift
# Temporary PS file
TEMP_PS="temp.ps"
# Array of file extensions to include
EXTENSIONS=("c" "cpp" "h" "hpp" "py" "java" "js" "html" "css" "php" "rb" "go" "rs" "swift" "kt" "scala" "pl" "s
h" "sql" "js" "ts")
# Function to get the appropriate language for enscript
get_language() {
    case "$1" in
        c|h|cpp|hpp) echo "c" ;;
       py) echo "python" ;;
        java) echo "java" ;;
        js|ts) echo "javascript" ;;
       html css) echo "html" ;;
       php) echo "php" ;;
        rb) echo "ruby" ;;
       go) echo "go" ;;
        rs) echo "rust" ;;
        swift) echo "swift" ;;
        kt) echo "kotlin" ;;
        scala) echo "scala"
       pl) echo "perl" ;;
        sh) echo "bash" ;;
        sql) echo "sql" ;;
        json) echo "javascript" ;;
        *) echo "text" ;;
    esac
}
# Function to generate the find command for a single directory
generate_find_command() {
    local dir="$1"
    local cmd="find \"$dir\" \( -type d \( -name node_modules -o -name .next \) -prune \) -o \( -type f \("
    for i in "${!EXTENSIONS[@]}"; do
       if [ $i -ne 0 ]; then
            cmd+=" -o"
       cmd+=" -name \"*.${EXTENSIONS[$i]}\""
    done
    cmd+=" \) -print \)"
    echo "$cmd"
# Clear the temporary PS file if it exists
> "$TEMP_PS"
# Process each directory
for dir in "$@"; do
    if [ ! -d "$dir" ]; then
        echo "Warning: $dir is not a valid directory. Skipping."
        continue
    fi
    echo "Processing directory: $dir"
    # Generate and execute the find command
    eval "$(generate_find_command "$dir")" | while read -r file; do
       echo "Converting $file"
        # Get the file extension
       ext="${file##*.}"
        # Get the appropriate language for enscript
       lang=$(get_language "$ext")
        # Use the appropriate syntax highlighting based on the file extension
        enscript -p - --highlight="$lang" --color=1 -fCourier8 --header="$file Page \$% of \$=" "$file" >> "$TE
MP_PS"
   done
done
```

/Users/abdulazizdot/Desktop/customer-suppaget2agent2/code_to_pdf.sh

```
# Check if any files were processed
if [ ! -s "$TEMP_PS" ]; then
        echo "Error: No files were found or processed. The output PDF will not be created."
        rm "$TEMP_PS"
        exit 1
fi

# Convert PostScript to PDF
ps2pdf "$TEMP_PS" "$OUTPUT"

# Remove temporary PostScript file
rm "$TEMP_PS"
echo "Conversion complete. Output saved as $OUTPUT"
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagefntl/next-env.d.ts

```
/// <reference types="next" />
/// <reference types="next/image-types/global" />
// NOTE: This file should not be edited
// see https://nextjs.org/docs/basic-features/typescript for more information.
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagent2/tailwind.config.ts

```
import type { Config } from "tailwindcss";
const config = {
 darkMode: ["class"],
  content: [
    "./pages/**/*.{ts,tsx}",
    "./components/**/*.{ts,tsx}",
    "./app/**/*.{ts,tsx}",
    "./src/**/*.{ts,tsx}",
 prefix: "",
 theme: {
    container: {
     center: true,
      padding: "2rem",
     screens: {
        "2x1": "1400px",
     },
    },
    extend: {
      colors: {
        border: "hsl(var(--border))",
        input: "hsl(var(--input))",
        ring: "hsl(var(--ring))",
        background: "hsl(var(--background))",
        foreground: "hsl(var(--foreground))",
        primary: {
         DEFAULT: "hsl(var(--primary))",
          foreground: "hsl(var(--primary-foreground))",
        secondary: {
   DEFAULT: "hsl(var(--secondary))",
          foreground: "hsl(var(--secondary-foreground))",
        destructive: {
         DEFAULT: "hsl(var(--destructive))",
         foreground: "hsl(var(--destructive-foreground))",
        muted: {
          DEFAULT: "hsl(var(--muted))",
         foreground: "hsl(var(--muted-foreground))",
        accent: {
         DEFAULT: "hsl(var(--accent))",
          foreground: "hsl(var(--accent-foreground))",
        popover: {
          DEFAULT: "hsl(var(--popover))",
         foreground: "hsl (var (--popover-foreground))",
        card: {
          DEFAULT: "hsl(var(--card))",
          foreground: "hsl(var(--card-foreground))",
      borderRadius: {
        lg: "var(--radius)",
        md: "calc(var(--radius) - 2px)",
        sm: "calc(var(--radius) - 4px)",
      kevframes: {
        "accordion-down": {
         from: { height: "0" },
          to: { height: "var(--radix-accordion-content-height)" },
        "accordion-up": {
          from: { height: "var(--radix-accordion-content-height)" },
          to: { height: "0" },
        fadeIn: {
          "0%": { opacity: "0" },
          "100%": { opacity: "1" },
        fadeInUp: {
          "0%": { opacity: "0", transform: "translateY(8px)" },
"100%": { opacity: "1", transform: "translateY(0)" },
        shimmer: {
          "100%": { transform: "translateX(100%)" },
        },
      animation: {
        "accordion-down": "accordion-down 0.2s ease-out",
        "accordion-up": "accordion-up 0.2s ease-out",
        "fade-in": "fadeIn 0.5s ease-out forwards",
        "fade-in-up": "fadeInUp 0.5s ease-out forwards",
```

/Users/abdulazizdot/Desktop/customer-suppaget 2agefnt2/tailwind.config.ts

```
"fade-in-up-fast": "fadeInUp 0.3s ease-out forwards",
    "fade-in-up-slow":
        "fadeInUp 0.8s cubic-bezier(0.4, 0, 0.2, 1) forwards",
        shimmer: "shimmer 2s linear infinite",
     },
    },
    plugins: [require("tailwindcss-animate")],
} satisfies Config;
export default config;
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagefint5/styles/themes.js

```
// themes.ts
export const themes = {
 neutral: {
    light: {
      background: "0 0% 100%",
      foreground: "0 0% 3.9%",
      card: "0 0% 100%",
      "card-foreground": "0 0% 3.9%",
      popover: "0 0% 100%",
      "popover-foreground": "0 0% 3.9%",
      primary: "0 0% 9%",
       primary-foreground": "0 0% 98%",
      secondary: "0 0% 96.1%",
      "secondary-foreground": "0 0% 9%",
      muted: "0 0% 96.1%",
      "muted-foreground": "0 0% 45.1%",
      accent: "0 0% 96.1%",
      "accent-foreground": "0 0% 9%",
      destructive: "0 84.2% 60.2%",
      "destructive-foreground": "0 0% 98%",
      border: "0 0% 89.8%",
      input: "0 0% 89.8%",
      ring: "0 0% 3.9%",
      radius: "0.75rem",
      "chart-1": "12 76% 61%",
      "chart-2": "173 58% 39%",
      "chart-3": "197 37% 24%",
      "chart-4": "43 74% 66%",
      "chart-5": "27 87% 67%",
    dark: {
      background: "0 0% 3.9%",
      foreground: "0 0% 98%",
      card: "0 0% 3.9%",
      "card-foreground": "0 0% 98%",
      popover: "0 0% 3.9%",
       "popover-foreground": "0 0% 98%",
      primary: "0 0% 98%",
      "primary-foreground": "0 0% 9%",
      secondary: "0 0% 14.9%",
      "secondary-foreground": "0 0% 98%",
      muted: "0 0% 14.9%",
      "muted-foreground": "0 0% 63.9%",
      accent: "0 0% 14.9%",
      "accent-foreground": "0 0% 98%",
      destructive: "0 62.8% 30.6%",
      "destructive-foreground": "0 0% 98%",
      border: "0 0% 14.9%",
      input: "0 0% 14.9%",
      ring: "0 0% 83.1%",
      radius: "0.75rem",
      "chart-1": "220 70% 50%",
      "chart-2": "160 60% 45%",
      "chart-3": "30 80% 55%",
      "chart-4": "280 65% 60%"
      "chart-5": "340 75% 55%",
  red: {
    light: {
     background: "0 0% 100%", foreground: "0 0% 3.9%",
      card: "0 0% 100%",
      "card-foreground": "0 0% 3.9%",
      popover: "0 0% 100%",
      "popover-foreground": "0 0% 3.9%",
      primary: "0 72.2% 50.6%",
      "primary-foreground": "0 85.7% 97.3%",
      secondary: "0 0% 96.1%",
      "secondary-foreground": "0 0% 9%",
      muted: "0 0% 96.1%",
"muted-foreground": "0 0% 45.1%",
      accent: "0 0% 96.1%",
      "accent-foreground": "0 0% 9%",
      destructive: "0 84.2% 60.2%",
      "destructive-foreground": "0 0% 98%",
      border: "0 0% 89.8%",
      input: "0 0% 89.8%",
      ring: "0 72.2% 50.6%",
      radius: "0.75rem",
      "chart-1": "12 76% 61%",
      "chart-2": "173 58% 39%",
      "chart-3": "197 37% 24%",
      "chart-4": "43 74% 66%",
      "chart-5": "27 87% 67%",
```

/Users/abdulazizdot/Desktop/customer-suppaget2agefnt5/styles/themes.js

```
dark: {
   background: "0 0% 3.9%",
    foreground: "0 0% 98%",
    card: "0 0% 3.9%",
    "card-foreground": "0 0% 98%",
    popover: "0 0% 3.9%",
     "popover-foreground": "0 0% 98%",
    primary: "0 72.2% 50.6%",
    "primary-foreground": "0 85.7% 97.3%",
    secondary: "0 0% 14.9%",
    "secondary-foreground": "0 0% 98%",
    muted: "0 0% 14.9%",
    "muted-foreground": "0 0% 63.9%".
    accent: "0 0% 14.9%",
    "accent-foreground": "0 0% 98%".
    destructive: "0 62.8% 30.6%",
    "destructive-foreground": "0 0% 98%",
    border: "0 0% 14.9%",
    input: "0 0% 14.9%"
   ring: "0 72.2% 50.6%",
    radius: "0.75rem",
    "chart-1": "220 70% 50%",
    "chart-2": "160 60% 45%",
    "chart-3": "30 80% 55%",
    "chart-4": "280 65% 60%"
    "chart-5": "340 75% 55%".
 },
violet: {
  light: {
   background: "0 0% 100%",
    foreground: "224 71.4% 4.1%",
    card: "0 0% 100%",
    "card-foreground": "224 71.4% 4.1%",
    popover: "0 0% 100%",
    "popover-foreground": "224 71.4% 4.1%",
    primary: "262.1 83.3% 57.8%"
    "primary-foreground": "210 20% 98%",
    secondary: "220 14.3% 95.9%",
    "secondary-foreground": "220.9 39.3% 11%",
    muted: "220 14.3% 95.9%",
    "muted-foreground": "220 8.9% 46.1%",
    accent: "220 14.3% 95.9%",
    "accent-foreground": "220.9 39.3% 11%",
    destructive: "0 84.2% 60.2%",
    "destructive-foreground": "210 20% 98%",
    border: "220 13% 91%",
    input: "220 13% 91%",
    ring: "262.1 83.3% 57.8%",
    radius: "0.75rem",
    "chart-1": "12 76% 61%",
    "chart-2": "173 58% 39%",
    "chart-3": "197 37% 24%",
    "chart-4": "43 74% 66%",
    "chart-5": "27 87% 67%",
  dark: {
    background: "224 71.4% 4.1%",
    foreground: "210 20% 98%",
    card: "224 71.4% 4.1%",
    "card-foreground": "210 20% 98%",
    popover: "224 71.4% 4.1%",
     "popover-foreground": "210 20% 98%",
    primary: "263.4 70% 50.4%",
    "primary-foreground": "210 20% 98%".
    secondary: "215 27.9% 16.9%",
    "secondary-foreground": "210 20% 98%",
    muted: "215 27.9% 16.9%",
    "muted-foreground": "217.9 10.6% 64.9%",
    accent: "215 27.9% 16.9%",
    "accent-foreground": "210 20% 98%",
    destructive: "0 62.8% 30.6%",
    "destructive-foreground": "210 20% 98%",
    border: "215 27.9% 16.9%",
    input: "215 27.9% 16.9%",
    ring: "263.4 70% 50.4%",
    radius: "0.75rem",
    "chart-1": "220 70% 50%",
    "chart-2": "160 60% 45%",
    "chart-3": "30 80% 55%",
    "chart-4": "280 65% 60%"
    "chart-5": "340 75% 55%",
  },
blue: {
```

/Users/abdulazizdot/Desktop/customer-suppaget3agefnt5/styles/themes.js

```
background: "0 0% 100%",
    foreground: "222.2 84% 4.9%",
    card: "0 0% 100%",
    "card-foreground": "222.2 84% 4.9%",
    popover: "0 0% 100%",
    "popover-foreground": "222.2 84% 4.9%",
    primary: "221.2 83.2% 53.3%"
    "primary-foreground": "210 40% 98%",
    secondary: "210 40% 96.1%",
    "secondary-foreground": "222.2 47.4% 11.2%",
   muted: "210 40% 96.1%",
    "muted-foreground": "215.4 16.3% 46.9%",
    accent: "210 40% 96.1%",
    "accent-foreground": "222.2 47.4% 11.2%",
    destructive: "0 84.2% 60.2%",
    "destructive-foreground": "210 40% 98%",
   border: "214.3 31.8% 91.4%",
    input: "214.3 31.8% 91.4%",
    ring: "221.2 83.2% 53.3%",
   radius: "0.75rem",
    "chart-1": "12 76% 61%",
    "chart-2": "173 58% 39%"
    "chart-3": "197 37% 24%",
    "chart-4": "43 74% 66%",
    "chart-5": "27 87% 67%",
 dark: {
   background: "222.2 84% 4.9%",
    foreground: "210 40% 98%",
    card: "222.2 84% 4.9%",
    "card-foreground": "210 40% 98%",
    popover: "222.2 84% 4.9%",
    popover-foreground": "210 40% 98%",
    primary: "217.2 91.2% 59.8%",
    "primary-foreground": "222.2 47.4% 11.2%",
    secondary: "217.2 32.6% 17.5%"
    "secondary-foreground": "210 40% 98%",
    muted: "217.2 32.6% 17.5%",
    "muted-foreground": "215 20.2% 65.1%",
    accent: "217.2 32.6% 17.5%",
    "accent-foreground": "210 40% 98%",
    destructive: "0 62.8% 30.6%",
    "destructive-foreground": "210 40% 98%",
    border: "217.2 32.6% 17.5%",
   input: "217.2 32.6% 17.5%",
    ring: "224.3 76.3% 48%",
    "chart-1": "220 70% 50%",
   "chart-2": "160 60% 45%",
    "chart-3": "30 80% 55%",
    "chart-4": "280 65% 60%"
    "chart-5": "340 75% 55%",
tangerine: {
 light: {
   background: "0 0% 100%", foreground: "20 14.3% 4.1%",
    card: "0 0% 100%",
    "card-foreground": "20 14.3% 4.1%",
   popover: "0 0% 100%",
    "popover-foreground": "20 14.3% 4.1%",
    primary: "24.6 95% 53.1%",
    primary-foreground": "60 9.1% 97.8%",
    secondary: "60 4.8% 95.9%",
    "secondary-foreground": "24 9.8% 10%",
   muted: "60 4.8% 95.9%",
    "muted-foreground": "25 5.3% 44.7%",
    accent: "60 4.8% 95.9%",
    "accent-foreground": "24 9.8% 10%",
    destructive: "0 84.2% 60.2%",
    "destructive-foreground": "60 9.1% 97.8%",
   border: "20 5.9% 90%",
   input: "20 5.9% 90%",
    ring: "24.6 95% 53.1%",
    radius: "0.75rem",
    "chart-1": "12 76% 61%",
    "chart-2": "173 58% 39%",
    "chart-3": "197 37% 24%",
    "chart-4": "43 74% 66%",
    "chart-5": "27 87% 67%",
   background: "20 14.3% 4.1%",
    foreground: "60 9.1% 97.8%",
    card: "20 14.3% 4.1%",
```

/Users/abdulazizdot/Desktop/customer-suppaget4agefnt5/styles/themes.js

```
"card-foreground": "60 9.1% 97.8%",
    popover: "20 14.3% 4.1%"
    "popover-foreground": "60 9.1% 97.8%",
    primary: "20.5 90.2% 48.2%"
    "primary-foreground": "60 9.1% 97.8%",
    secondary: "12 6.5% 15.1%",
    "secondary-foreground": "60 9.1% 97.8%",
   muted: "12 6.5% 15.1%",
    "muted-foreground": "24 5.4% 63.9%",
    accent: "12 6.5% 15.1%",
    "accent-foreground": "60 9.1% 97.8%",
    destructive: "0 72.2% 50.6%",
    "destructive-foreground": "60 9.1% 97.8%",
   border: "12 6.5% 15.1%", input: "12 6.5% 15.1%",
   ring: "20.5 90.2% 48.2%",
    "chart-1": "220 70% 50%",
    "chart-2": "160 60% 45%",
    "chart-3": "30 80% 55%",
    "chart-4": "280 65% 60%"
    "chart-5": "340 75% 55%",
 },
emerald: {
 light: {
   background: "0 0% 100%",
    foreground: "240 10% 3.9%",
    card: "0 0% 100%",
    "card-foreground": "240 10% 3.9%",
    popover: "0 0% 100%",
    "popover-foreground": "240 10% 3.9%",
    primary: "142.1 76.2% 36.3%"
    "primary-foreground": "355.7 100% 97.3%",
    secondary: "240 4.8% 95.9%"
    "secondary-foreground": "240 5.9% 10%",
   muted: "240 4.8% 95.9%",
    "muted-foreground": "240 3.8% 46.1%",
    accent: "240 4.8% 95.9%"
    "accent-foreground": "240 5.9% 10%",
    destructive: "0 84.2% 60.2%",
    "destructive-foreground": "0 0% 98%",
   border: "240 5.9% 90%",
    input: "240 5.9% 90%",
    ring: "142.1 76.2% 36.3%",
    radius: "0.75rem",
    "chart-1": "12 76% 61%",
    "chart-2": "173 58% 39%"
    "chart-3": "197 37% 24%",
    "chart-4": "43 74% 66%",
    "chart-5": "27 87% 67%",
 dark: {
    background: "20 14.3% 4.1%",
    foreground: "0 0% 95%",
    card: "24 9.8% 10%"
    "card-foreground": "0 0% 95%".
    popover: "0 0% 9%",
    popover-foreground": "0 0% 95%",
    primary: "142.1 70.6% 45.3%",
    "primary-foreground": "144.9 80.4% 10%",
    secondary: "240 3.7% 15.9%",
    "secondary-foreground": "0 0% 98%",
    muted: "0 0% 15%",
    "muted-foreground": "240 5% 64.9%",
    accent: "12 6.5% 15.1%",
    "accent-foreground": "0 0% 98%"
    destructive: "0 62.8% 30.6%",
    "destructive-foreground": "0 85.7% 97.3%",
    border: "240 3.7% 15.9%",
   input: "240 3.7% 15.9%", ring: "142.4 71.8% 29.2%",
    "chart-1": "220 70% 50%",
    "chart-2": "160 60% 45%",
    "chart-3": "30 80% 55%",
    "chart-4": "280 65% 60%"
    "chart-5": "340 75% 55%",
 },
amber: {
 light: {
    background: "0 0% 100%",
    foreground: "20 14.3% 4.1%",
    card: "0 0% 100%",
    "card-foreground": "20 14.3% 4.1%",
    popover: "0 0% 100%",
    "popover-foreground": "20 14.3% 4.1%",
```

/Users/abdulazizdot/Desktop/customer-suppaget-5agefnt5/styles/themes.js

```
primary: "47.9 95.8% 53.1%"
     "primary-foreground": "26 83.3% 14.1%",
    secondary: "60 4.8% 95.9%",
    "secondary-foreground": "24 9.8% 10%",
    muted: "60 4.8% 95.9%",
    "muted-foreground": "25 5.3% 44.7%",
    accent: "60 4.8% 95.9%",
     "accent-foreground": "24 9.8% 10%",
    destructive: "0 84.2% 60.2%",
    "destructive-foreground": "60 9.1% 97.8%",
    border: "20 5.9% 90%",
    input: "20 5.9% 90%",
ring: "20 14.3% 4.1%",
    radius: "0.75rem",
    "chart-1": "12 76% 61%",
    "chart-2": "173 58% 39%",
    "chart-3": "197 37% 24%",
    "chart-4": "43 74% 66%",
    "chart-5": "27 87% 67%",
  dark: {
    background: "20 14.3% 4.1%",
    foreground: "60 9.1% 97.8%",
    card: "20 14.3% 4.1%",
    "card-foreground": "60 9.1% 97.8%",
    popover: "20 14.3% 4.1%",
    "popover-foreground": "60 9.1% 97.8%".
    primary: "47.9 95.8% 53.1%",
    "primary-foreground": "26 83.3% 14.1%",
    secondary: "12 6.5% 15.1%",
    "secondary-foreground": "60 9.1% 97.8%",
    muted: "12 6.5% 15.1%",
"muted-foreground": "24 5.4% 63.9%",
    accent: "12 6.5% 15.1%",
    "accent-foreground": "60 9.1% 97.8%",
    destructive: "0 62.8% 30.6%",
    "destructive-foreground": "60 9.1% 97.8%",
    border: "12 6.5% 15.1%",
    input: "12 6.5% 15.1%",
    ring: "35.5 91.7% 32.9%",
    "chart-1": "220 70% 50%",
    "chart-2": "160 60% 45%",
    "chart-3": "30 80% 55%",
    "chart-4": "280 65% 60%",
    "chart-5": "340 75% 55%",
  },
},
```

};

/Users/abdulazizdot/Desktop/customer-suppaget-lagefnti/lib/utils.ts

```
import { type ClassValue, clsx } from "clsx";
import { twMerge } from "tailwind-merge";

export function cn(...inputs: ClassValue[]) {
   return twMerge(clsx(inputs));
}
```

/Users/abdulazizdot/Desktop/customer-suppaget-lagent/config.ts

```
type Config = {
  includeLeftSidebar: boolean;
  includeRightSidebar: boolean;
};

const config: Config = {
  includeLeftSidebar: process.env.NEXT_PUBLIC_INCLUDE_LEFT_SIDEBAR === "true",
  includeRightSidebar: process.env.NEXT_PUBLIC_INCLUDE_RIGHT_SIDEBAR === "true",
};

export default config;
```