```
// types/marketAnalysis.ts
export interface MarketData {
   price: number;
    change: number;
   percentChange: number;
    volume: number;
   marketCap: number;
 export interface FinancialMetrics {
    revenue: number;
    operatingIncome: number;
    netIncome: number;
    eps: number;
   margins: {
     gross: number;
      operating: number;
     net: number;
    growth: {
     revenue: number;
      profit: number;
    };
 export interface BalanceSheetMetrics {
    totalAssets: number;
    totalLiabilities: number;
    shareholdersEquity: number;
    currentRatio: number;
    debtToEquity: number;
    workingCapital: number;
 export interface CashFlowMetrics {
    operatingCashFlow: number;
    freeCashFlow: number;
    capitalExpenditures: number;
    cashFromOperations: number;
 export interface CompanyFinancials {
    metrics: FinancialMetrics;
    balanceSheet: BalanceSheetMetrics;
    cashFlow: CashFlowMetrics;
    trends: {
      quarterlyGrowth: number;
      profitabilityTrend: string;
     marginTrend: string;
   };
  export interface ValuationMetrics {
   peRatio: number;
    pbRatio: number;
    evToEbitda: number;
    priceToSales: number;
    dividendYield?: number;
 export interface SectorAnalysis {
    sector: string;
    marketShare: number;
   peersComparison: {
      valuationPercentile: number;
      profitabilityPercentile: number;
      growthPercentile: number;
    };
 export interface CompanyRisks {
    financialRisks: string[];
    operationalRisks: string[];
   marketRisks: string[];
 export interface CompanyOpportunities {
    growthOpportunities: string[];
    marketOpportunities: string[];
    competitiveAdvantages: string[];
 export interface CompanyAnalysis {
    marketData: MarketData;
    financials: CompanyFinancials;
```

### /Users/abdulazizdot/Desktop/customer-suppaget-2agefnt2/app/types/marketAnalysis.ts

```
valuation: ValuationMetrics;
    sectorAnalysis: SectorAnalysis;
    risks: CompanyRisks;
    opportunities: CompanyOpportunities;
 // 1. Market Analysis Types (types/marketAnalysis.ts)
export interface MarketIndicators {
 price: number;
  volume: number;
 change: number;
 percentChange: number;
 sma50: number;
 sma200: number;
 rsi: number;
 macd: {
   value: number;
    signal: number;
   histogram: number;
 };
export interface FundamentalMetrics {
 peRatio: number;
 pbRatio: number;
 evToEbitda: number;
 debtToEquity: number;
 currentRatio: number;
 quickRatio: number;
 grossMargin: number;
 operatingMargin: number;
 netMargin: number;
 roe: number;
 roa: number;
export interface SectorAnalysis {
 performance: {
   daily: number;
    weekly: number;
   monthly: number;
   yearly: number;
 averages: {
   peRatio: number;
   pbRatio: number;
   margins: {
     gross: number;
      operating: number;
     net: number;
   };
  };
 ranking: number;
 peers: Array<{</pre>
    symbol: string;
   name: string;
   marketCap: number;
   performance: number;
 } > ;
```

```
// app/types/stock.ts
interface ProfileData {
   name: string;
   exchange: string;
   mic code: string;
   sector: string;
   industry: string;
   employees: number;
   website: string;
   description: string;
   type: string;
   CEO: string;
   address: string;
   address2: string;
   city: string;
   zip: string;
   state: string;
   country: string;
   phone: string:
// Quote data interface
export interface QuoteData {
   symbol: string;
   name: string;
   close: string;
   change: string;
   percent_change: string;
   high: string:
   low: string;
   open: string;
   volume: string;
  // Time series data interface
 export interface TimeSeriesData {
   datetime: string;
   open: string;
   high: string;
   low: string;
   close: string;
   volume: string;
  // Valuation metrics interface
 export interface ValuationMetrics {
   market_capitalization: number;  // Market cap
   enterprise_value: number;
                                     // Enterprise value (EV)
   trailing_pe: number;
                                     // Price to trailing earnings ratio (TTM)
   forward_pe: number;
                                    // Price to forward earnings ratio
   peg_ratio: number;
                                    // P/E to growth ratio
   price_to_sales_ttm: number;
                                    // Price to sales ratio (TTM)
   price_to_book_mrq: number;
                                    // Price to book ratio
                                     // Enterprise value to revenue
   enterprise_to_revenue: number;
                                     // Enterprise value to EBITDA
   enterprise_to_ebitda: number;
  // Financial statement interfaces
 export interface IncomeStatement {
   revenue_ttm: number;
                                      // Trailing 12m revenue
    revenue_per_share_ttm: number;
                                     // Revenue per share
   quarterly_revenue_growth: number; // QoQ revenue growth
   gross_profit_ttm: number;
                                      // Gross profit
                                      // EBITDA
   ebitda: number;
   net_income_to_common_ttm: number; // Net income
                                      // Diluted EPS
   diluted_eps_ttm: number;
   quarterly_earnings_growth_yoy: number; // YoY earnings growth
  export interface BalanceSheet {
                                     // Total cash
   total_cash_mrq: number;
   total_cash_per_share_mrq: number; // Cash per share
                                     // Total debt
   total_debt_mrq: number;
   total_debt_to_equity_mrq: number; // Debt/Equity ratio
                                     // Current ratio
   current_ratio_mrq: number;
   book_value_per_share_mrq: number; // Book value per share
 export interface CashFlow {
   operating_cash_flow_ttm: number; // Operating cash flow
    levered_free_cash_flow_ttm: number; // Free cash flow
  export interface Financials {
```

## /Users/abdulazizdot/Desktop/customer-suppaget2agefn5/app/types/stock.ts

```
fiscal_year_ends: string;
                                      // Last 12-month period end
                                      // Most recent quarter end
  most recent quarter: string;
                                     // Gross margin
  gross margin: number;
                                     // Net profit margin
  profit_margin: number;
  operating_margin: number;
                                     // Operating margin
                                     // Return on assets
  return_on_assets_ttm: number;
  return_on_equity_ttm: number;
                                     // Return on equity
  income_statement: IncomeStatement;
  balance_sheet: BalanceSheet;
  cash_flow: CashFlow;
//\ \mathit{Stock}\ \mathit{statistics}\ \mathit{interfaces}
export interface StockStatistics {
  shares_outstanding: number;
  float_shares: number;
  avg_10_volume: number;
  avg_90_volume: number;
export interface StockPriceSummary {
  fifty_two_week_low: number;
  fifty_two_week_high: number;
  fifty_two_week_change: number;
  beta: number;
  day_50_ma: number;
  day_200_ma: number;
export interface DividendData {
  forward_annual_dividend_rate: number;
  forward_annual_dividend_yield: number;
  trailing_annual_dividend_rate: number;
  trailing_annual_dividend_yield: number;
  "5_year_average_dividend_yield": number;
  payout_ratio: number;
  dividend_date: string;
  ex_dividend_date: string;
// Main stock data interface
export interface StockData {
  quote: {
  symbol: string;
  name: string;
  close: string;
  change: string;
  percent_change: string;
  high: string;
  low: string;
  open: string;
  volume: string;
timeSeries: {
  values: Array<{</pre>
    datetime: string;
    open: string;
    high: string;
    low: string;
    close: string;
    volume: string;
 }>;
statistics: any;
profile?: ProfileData};
     statistics: {
       valuations_metrics: ValuationMetrics;
       financials: Financials;
       stock_statistics: StockStatistics;
       stock_price_summary: StockPriceSummary;
       dividends_and_splits: DividendData;
     };
// Helper interface for metric display
export interface MetricItem {
  label: string;
  value: number | string | null;
  format?: 'number' | 'percent' | 'currency' | 'compact';
  description?: string;
// Helper function to format numbers based on type
export function formatValuationMetric(
  value: number | undefined | null,
format: 'number' | 'percent' | 'currency' | 'compact' = 'number'
```

## /Users/abdulazizdot/Desktop/customer-suppaget-3agefnt5/app/types/stock.ts

```
if (value === null | value === undefined | isNaN(value)) return 'â\200\224';
 switch (format) {
   case 'number':
     return value.toFixed(2);
   case 'percent':
     return '${ (value * 100).toFixed(2) }%';
   case 'currency':
     return new Intl.NumberFormat('en-US', {
       style: 'currency',
       currency: 'SAR',
       minimumFractionDigits: 0,
       maximumFractionDigits: 0
      }).format(value);
   case 'compact':
     return new Intl.NumberFormat('en-US', {
       notation: 'compact',
       compactDisplay: 'short'
      }).format(value);
   default:
     return value.toString();
}
// Get formatted valuation metrics for display
export function getValuationMetricsDisplay(metrics: ValuationMetrics): Array<MetricItem> {
 return [
   {
     label: 'P/E (TTM)'
      value: metrics.trailing_pe,
      format: 'number',
     description: 'Price to trailing earnings ratio'
     label: 'Forward P/E',
      value: metrics.forward_pe,
     format: 'number',
     description: 'Price to forward earnings ratio'
   },
     label: 'PEG Ratio',
     value: metrics.peg_ratio,
     format: 'number'
     description: 'P/E ratio divided by growth rate'
     label: 'P/S (TTM)',
      value: metrics.price_to_sales_ttm,
      format: 'number',
     description: 'Price to sales ratio'
   },
     label: 'P/B',
      value: metrics.price_to_book_mrq,
     format: 'number',
     description: 'Price to book ratio'
      label: 'EV/EBITDA',
     value: metrics.enterprise_to_ebitda,
      format: 'number',
     description: 'Enterprise value to EBITDA ratio'
 ];
// Get formatted margin metrics for display
export function getMarginMetricsDisplay(financials: Financials): Array<MetricItem> {
 return [
   {
     label: 'Gross Margin',
     value: financials.gross_margin,
      format: 'percent',
     description: 'Gross profit as a percentage of revenue'
   },
     label: 'Operating Margin',
     value: financials.operating_margin,
     format: 'percent',
     description: 'Operating income as a percentage of revenue'
     label: 'Profit Margin',
      value: financials.profit_margin,
      format: 'percent',
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-4aopent5/app/types/stock.ts

```
description: 'Net income as a percentage of revenue'
     }
   ];
 }
 // Validation helper function for valuation metrics
export function validateValuationMetrics (data: any): ValuationMetrics {
   return
     market_capitalization: Number(data?.market_capitalization) | 0,
     enterprise_value: Number(data?.enterprise_value) || 0,
     trailing_pe: Number(data?.trailing_pe) | 0,
     forward_pe: Number(data?.forward_pe) | 0,
     price_to_sales_ttm: Number(data?.price_to_sales_ttm) | 0,
     price_to_book_mrq: Number(data?.price_to_book_mrq) | 0,
     enterprise_to_revenue: Number(data?.enterprise_to_revenue) | 0,
     enterprise_to_ebitda: Number(data?.enterprise_to_ebitda) | 0
   };
 }
  // Validation helper function for financial metrics
 export function validateFinancials (data: any): Financials {
   return {
     fiscal_year_ends: data?.fiscal_year_ends | '',
     gross_margin: Number(data?.gross_margin) | 0,
     profit_margin: Number(data?.profit_margin) || 0,
     operating_margin: Number(data?.operating_margin) || 0,
     return_on_assets_ttm: Number(data?.return_on_assets_ttm)
     return_on_equity_ttm: Number(data?.return_on_equity_ttm) | 0,
     income statement: {
       revenue_ttm: Number(data?.income_statement?.revenue_ttm) || 0,
       revenue_per_share_ttm: Number(data?.income_statement?.revenue_per_share_ttm) | 0,
       quarterly_revenue_growth: Number(data?.income_statement?.quarterly_revenue_growth) || 0,
       gross_profit_ttm: Number(data?.income_statement?.gross_profit_ttm) || 0,
       ebitda: Number(data?.income_statement?.ebitda) | 0,
       net_income_to_common_ttm: Number(data?.income_statement?.net_income_to_common_ttm) || 0,
       diluted_eps_ttm: Number(data?.income_statement?.diluted_eps_ttm) || 0,
       quarterly_earnings_growth_yoy: Number(data?.income_statement?.quarterly_earnings_growth_yoy) || 0
     balance_sheet: {
       total_cash_mrq: Number(data?.balance_sheet?.total_cash_mrq) |  0,
       total_cash_per_share_mrq: Number(data?.balance_sheet?.total_cash_per_share_mrq) | 0,
       total_debt_mrq: Number(data?.balance_sheet?.total_debt_mrq) |  0,
       current_ratio_mrq: Number(data?.balance_sheet?.current_ratio_mrq) | 0,
       book_value_per_share_mrq: Number(data?.balance_sheet?.book_value_per_share_mrq) || 0
     cash flow: {
       operating_cash_flow_ttm: Number(data?.cash_flow?.operating_cash_flow_ttm) | 0,
       levered_free_cash_flow_ttm: Number(data?.cash_flow?.levered_free_cash_flow_ttm) || 0
   };
  // Validation helper function for stock statistics
 export function validateStockStatistics(data: any): StockStatistics {
   return {
     shares_outstanding: Number(data?.shares_outstanding) | 0,
     float_shares: Number(data?.float_shares) || 0,
     avg_10_volume: Number(data?.avg_10_volume)
     avg_90_volume: Number(data?.avg_90_volume) | 0
  // Main validation function for entire stock data
 export function validateStockData(data: any): Partial<StockData> {
   try {
     return {
       quote: {
         symbol: data?.quote?.symbol | '',
         name: data?.quote?.name | '',
         close: String(data?.quote?.close | '0'),
         change: String(data?.quote?.change | | '0'),
         percent_change: String(data?.quote?.percent_change | '0'),
         high: String(data?.quote?.high | '0'),
         low: String(data?.quote?.low | | '0'),
open: String(data?.quote?.open | | '0'),
                                         0'),
         volume: String(data?.quote?.volume | | '0')
       timeSeries: {
         values: Array.isArray(data?.timeSeries?.values)
           ? data.timeSeries.values.map((item: any) => ({
               datetime: String(item.datetime | ''),
               open: String(item.open | '0'),
high: String(item.high | '0'),
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-5agefnt5/app/types/stock.ts

```
low: String(item.low | '0'),
                close: String(item.close | |
                volume: String(item.volume | '0')
              }))
            : []
        },
        statistics: {
          valuations_metrics: validateValuationMetrics(data?.statistics?.valuations_metrics),
          financials: validateFinancials(data?.statistics?.financials),
          stock_statistics: validateStockStatistics(data?.statistics?.stock_statistics),
          stock_price_summary: {
            fifty_two_week_low: Number(data?.statistics?.stock_price_summary?.fifty_two_week_low) || 0, fifty_two_week_high: Number(data?.statistics?.stock_price_summary?.fifty_two_week_high) || 0,
            fifty_two_week_change: Number(data?.statistics?.stock_price_summary?.fifty_two_week_change) | 0,
            beta: Number(data?.statistics?.stock_price_summary?.beta) | 0,
            day_50_ma: Number(data?.statistics?.stock_price_summary?.day_50_ma) | 0,
            day_200_ma: Number(data?.statistics?.stock_price_summary?.day_200_ma) || 0
          dividends_and_splits: {
            forward_annual_dividend_rate: Number(data?.statistics?.dividends_and_splits?.forward_annual_dividen
d_rate) || 0,
            forward_annual_dividend_yield: Number(data?.statistics?.dividends_and_splits?.forward_annual_divide
nd_yield) \mid \mid 0,
            trailing_annual_dividend_rate: Number(data?.statistics?.dividends_and_splits?.trailing_annual_divid
end_rate) || 0,
            trailing_annual_dividend_yield: Number(data?.statistics?.dividends_and_splits?.trailing_annual_divi
dend\_yield) \mid \mid 0,
            "5_year_average_dividend_yield": Number(data?.statistics?.dividends_and_splits?.["5_year_average_di
vidend_yield"]) || 0,
            payout_ratio: Number(data?.statistics?.dividends_and_splits?.payout_ratio)
            dividend_date: String(data?.statistics?.dividends_and_splits?.dividend_date | '''),
            }
      };
    } catch (error) {
      console.error('Error validating stock data:', error);
      return {};
  }
  // Get formatted return metrics for display
  export function getReturnMetricsDisplay(financials: Financials): Array<MetricItem> {
    return [
      {
        label: 'ROE',
        value: financials.return_on_equity_ttm,
        format: 'percent',
        description: 'Return on equity'
      },
        label: 'ROA',
        value: financials.return_on_assets_ttm,
        format: 'percent',
        description: 'Return on assets'
   ];
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-lagefint5/app/types/market.ts

```
interface ProfileData {
   name: string;
   exchange: string;
   mic_code: string;
   sector: string;
   industry: string;
   employees: number;
   website: string;
   description: string;
    type: string;
   CEO: string;
   address: string;
   address2: string;
   city: string;
   zip: string;
   state: string;
   country: string;
   phone: string;
// Quote data interface
export interface QuoteData {
   symbol: string;
   name: string;
   close: string;
   change: string;
   percent change: string;
   high: string;
   low: string;
   open: string;
   volume: string;
  // Time series data interface
  export interface TimeSeriesData {
   datetime: string;
   open: string;
   high: string;
   low: string;
   close: string;
   volume: string;
  // Valuation metrics interface
  export interface ValuationMetrics {
   market_capitalization: number;
                                     // Market cap
   enterprise_value: number;
                                     // Enterprise value (EV)
   trailing_pe: number;
                                     // Price to trailing earnings ratio (TTM)
   forward_pe: number;
                                    // Price to forward earnings ratio
   peg_ratio: number;
                                    // P/E to growth ratio
   price_to_sales_ttm: number;
                                    // Price to sales ratio (TTM)
                                    // Price to book ratio
   price_to_book_mrq: number;
   enterprise_to_revenue: number;
                                     // Enterprise value to revenue
   enterprise_to_ebitda: number;
                                    // Enterprise value to EBITDA
  // Financial statement interfaces
 export interface IncomeStatement {
   revenue_ttm: number;
                                     // Trailing 12m revenue
                                     // Revenue per share
   revenue_per_share_ttm: number;
   quarterly_revenue_growth: number; // QoQ revenue growth
                                     // Gross profit
   gross profit ttm: number;
                                      // EBITDA
   ebitda: number;
   net_income_to_common_ttm: number; // Net income
                                      // Diluted EPS
   diluted_eps_ttm: number;
   quarterly_earnings_growth_yoy: number; // YoY earnings growth
  export interface BalanceSheet {
   total_cash_mrq: number;
                                     // Total cash
   total_cash_per_share_mrq: number; // Cash per share
                                     // Total debt
   total_debt_mrq: number;
   total_debt_to_equity_mrq: number; // Debt/Equity ratio
                                     // Current ratio
    current_ratio_mrq: number;
   book_value_per_share_mrq: number; // Book value per share
  export interface CashFlow {
   operating_cash_flow_ttm: number;
                                     // Operating cash flow
   levered_free_cash_flow_ttm: number; // Free cash flow
  export interface Financials {
   fiscal_year_ends: string;
                                     // Last 12-month period end
   most_recent_quarter: string;
                                     // Most recent quarter end
                                    // Gross margin
   gross_margin: number;
                                    // Net profit margin
   profit_margin: number;
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-2agefnt5/app/types/market.ts

```
operating_margin: number;
                                    // Operating margin
                                    // Return on assets
  return on assets ttm: number;
                                    // Return on equity
  return_on_equity_ttm: number;
  income_statement: IncomeStatement;
  balance_sheet: BalanceSheet;
  cash_flow: CashFlow;
// Stock statistics interfaces
export interface StockStatistics {
  shares_outstanding: number;
  float_shares: number;
  avg_10_volume: number;
  avg_90_volume: number;
export interface StockPriceSummary {
  fifty_two_week_low: number;
  fifty_two_week_high: number;
  fifty_two_week_change: number;
  beta: number:
  day_50_ma: number;
  day_200_ma: number;
export interface DividendData {
  forward_annual_dividend_rate: number;
  forward_annual_dividend_yield: number;
  trailing_annual_dividend_rate: number;
  trailing_annual_dividend_yield: number;
  "5_year_average_dividend_yield": number;
  payout_ratio: number;
  dividend_date: string;
  ex_dividend_date: string;
// Main stock data interface
export interface StockData {
  quote: {
  symbol: string;
  name: string;
  close: string;
  change: string;
  percent_change: string;
  high: string;
  low: string;
  open: string;
  volume: string;
timeSeries: {
  values: Array<{</pre>
    datetime: string;
    open: string;
    high: string;
    low: string;
    close: string;
    volume: string;
  }>;
};
statistics: any;
profile?: ProfileData };
     statistics: {
       valuations_metrics: ValuationMetrics;
       financials: Financials;
       stock statistics: StockStatistics:
       stock_price_summary: StockPriceSummary;
       dividends_and_splits: DividendData;
// Helper interface for metric display
export interface MetricItem {
  label: string;
  value: number | string | null;
  format?: 'number' | 'percent' | 'currency' | 'compact';
  description?: string;
// Helper function to format numbers based on type
export function formatValuationMetric(
  value: number | undefined | null,
  format: 'number' | 'percent' | 'currency' | 'compact' = 'number'
  if (value === null | | value === undefined | | isNaN(value)) return 'â\200\224';
  switch (format) {
```

```
case 'number':
     return value.toFixed(2);
    case 'percent':
      return '${ (value * 100).toFixed(2) }%';
    case 'currency':
     return new Intl.NumberFormat('en-US', {
       style: 'currency',
        currency: 'SAR'
        minimumFractionDigits: 0,
        maximumFractionDigits: 0
      }).format(value);
    case 'compact':
     return new Intl.NumberFormat('en-US', {
       notation: 'compact',
        compactDisplay: 'short'
      }).format(value);
    default:
     return value.toString();
 }
// Get formatted valuation metrics for display
export function getValuationMetricsDisplay (metrics: ValuationMetrics): Array<MetricItem> {
  return [
     label: 'P/E (TTM)',
      value: metrics.trailing_pe,
      format: 'number',
     description: 'Price to trailing earnings ratio'
    },
      label: 'Forward P/E',
     value: metrics.forward_pe,
      format: 'number',
     description: 'Price to forward earnings ratio'
     label: 'PEG Ratio',
      value: metrics.peg_ratio,
      format: 'number',
     description: 'P/E ratio divided by growth rate'
    },
      label: 'P/S (TTM)',
      value: metrics.price_to_sales_ttm,
     format: 'number',
     description: 'Price to sales ratio'
      label: 'P/B',
      value: metrics.price_to_book_mrq,
      format: 'number',
      description: 'Price to book ratio'
     label: 'EV/EBITDA',
      value: metrics.enterprise_to_ebitda,
      format: 'number',
      description: 'Enterprise value to EBITDA ratio'
 ];
// Get formatted margin metrics for display
export function getMarginMetricsDisplay(financials: Financials): Array<MetricItem> {
  return [
      label: 'Gross Margin',
      value: financials.gross_margin,
      format: 'percent',
     description: 'Gross profit as a percentage of revenue'
     label: 'Operating Margin',
      value: financials.operating_margin,
      format: 'percent',
      description: 'Operating income as a percentage of revenue'
    },
      label: 'Profit Margin',
      value: financials.profit_margin,
      format: 'percent',
      description: 'Net income as a percentage of revenue'
 ];
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-4agefnt5/app/types/market.ts

```
// Validation helper function for valuation metrics
export function validateValuationMetrics (data: any): ValuationMetrics {
   return (
     market_capitalization: Number(data?.market_capitalization) | 0,
     enterprise_value: Number(data?.enterprise_value) | 0,
     trailing_pe: Number(data?.trailing_pe) | 0,
     forward_pe: Number(data?.forward_pe) | 0,
     price_to_sales_ttm: Number(data?.price_to_sales_ttm) | 0,
     price_to_book_mrq: Number(data?.price_to_book_mrq) | 0,
     enterprise_to_revenue: Number(data?.enterprise_to_revenue) | 0,
     enterprise_to_ebitda: Number(data?.enterprise_to_ebitda) | 0
   };
 }
  // Validation helper function for financial metrics
 export function validateFinancials (data: any): Financials {
   return {
     fiscal_year_ends: data?.fiscal_year_ends | '',
     gross_margin: Number(data?.gross_margin) | 0,
     profit_margin: Number(data?.profit_margin) | | 0,
     operating_margin: Number(data?.operating_margin) || 0,
     return_on_assets_ttm: Number(data?.return_on_assets_ttm)
     return_on_equity_ttm: Number(data?.return_on_equity_ttm) | 0,
     income statement: {
       revenue_ttm: Number(data?.income_statement?.revenue_ttm) || 0,
       revenue_per_share_ttm: Number(data?.income_statement?.revenue_per_share_ttm) | 0,
       quarterly_revenue_growth: Number(data?.income_statement?.quarterly_revenue_growth) || 0,
       gross_profit_ttm: Number(data?.income_statement?.gross_profit_ttm) | 0,
       ebitda: Number(data?.income_statement?.ebitda) || 0,
       net_income_to_common_ttm: Number(data?.income_statement?.net_income_to_common_ttm) || 0,
       diluted_eps_ttm: Number(data?.income_statement?.diluted_eps_ttm) || 0,
       quarterly_earnings_growth_yoy: Number(data?.income_statement?.quarterly_earnings_growth_yoy) || 0
     balance_sheet: {
       total_cash_mrq: Number(data?.balance_sheet?.total_cash_mrq) |  0,
       total_cash_per_share_mrq: Number(data?.balance_sheet?.total_cash_per_share_mrq) | 0,
       total_debt_mrq: Number(data?.balance_sheet?.total_debt_mrq) |  0,
       current_ratio_mrq: Number(data?.balance_sheet?.current_ratio_mrq) | 0,
       book_value_per_share_mrq: Number(data?.balance_sheet?.book_value_per_share_mrq) || 0
     cash_flow: {
       operating_cash_flow_ttm: Number(data?.cash_flow?.operating_cash_flow_ttm) | 0,
       levered_free_cash_flow_ttm: Number(data?.cash_flow?.levered_free_cash_flow_ttm) || 0
   };
  // Validation helper function for stock statistics
 export function validateStockStatistics(data: any): StockStatistics {
   return {
     shares_outstanding: Number(data?.shares_outstanding) | 0,
     float_shares: Number(data?.float_shares) || 0,
     avg_10_volume: Number(data?.avg_10_volume)
     avg_90_volume: Number(data?.avg_90_volume) | 0
  // Main validation function for entire stock data
 export function validateStockData(data: any): Partial<StockData> {
   try {
     return {
       quote: {
         symbol: data?.quote?.symbol | '',
         name: data?.quote?.name | | '',
         close: String(data?.quote?.close | | '0'),
         change: String(data?.quote?.change | | '0'),
         percent_change: String(data?.quote?.percent_change | '0'),
         high: String(data?.quote?.high | '0'),
                                         ′0′),
         low: String(data?.quote?.low | | '0'),
open: String(data?.quote?.open | | '0'),
         volume: String(data?.quote?.volume | | '0')
       timeSeries: {
         values: Array.isArray(data?.timeSeries?.values)
           ? data.timeSeries.values.map((item: any) => ({
               datetime: String(item.datetime |  ''),
               open: String(item.open | '0'),
high: String(item.high | '0'),
               low: String(item.low | '0'),
               close: String(item.close | |
               volume: String(item.volume | '0')
             }))
           : []
```

## /Users/abdulazizdot/Desktop/customer-suppaget-5agefnt5/app/types/market.ts

```
statistics: {
                    valuations_metrics: validateValuationMetrics(data?.statistics?.valuations_metrics),
                    financials: validateFinancials(data?.statistics?.financials),
                    stock_statistics: validateStockStatistics(data?.statistics?.stock_statistics),
                    stock_price_summary: {
                         fifty\_two\_week\_low: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_low) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) \ | \ | \ 0, \\ fifty\_two\_week\_high: Number(data?.statistics?.stock\_price\_summary?.fifty\_two\_week\_high) 
                        fifty_two_week_change: Number(data?.statistics?.stock_price_summary?.fifty_two_week_change) | 0,
                        beta: Number(data?.statistics?.stock_price_summary?.beta) | 0,
                        day_200_ma: Number(data?.statistics?.stock_price_summary?.day_200_ma) || 0
                    dividends_and_splits: {
                         forward_annual_dividend_rate: Number(data?.statistics?.dividends_and_splits?.forward_annual_dividen
d_rate) || 0,
                        forward annual dividend yield: Number(data?.statistics?.dividends and splits?.forward annual divide
nd_yield) \mid \mid 0,
                        trailing_annual_dividend_rate: Number(data?.statistics?.dividends_and_splits?.trailing_annual_divid
end_rate) || 0,
                        trailing_annual_dividend_yield: Number(data?.statistics?.dividends_and_splits?.trailing_annual_divi
dend\_yield) \mid \mid 0,
                         "5_year_average_dividend_yield": Number(data?.statistics?.dividends_and_splits?.["5_year_average_di
vidend_yield"]) | 0,
                        payout_ratio: Number(data?.statistics?.dividends_and_splits?.payout_ratio) | |
                        dividend_date: String(data?.statistics?.dividends_and_splits?.dividend_date | '''),
                        }
            };
        } catch (error) {
            console.error('Error validating stock data:', error);
            return {};
    // Get formatted return metrics for display
    export function getReturnMetricsDisplay(financials: Financials): Array<MetricItem> {
        return [
                label: 'ROE',
                value: financials.return_on_equity_ttm,
                format: 'percent',
                description: 'Return on equity'
            },
                label: 'ROA',
                value: financials.return_on_assets_ttm,
                format: 'percent',
               description: 'Return on assets'
       ];
```

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

# /Users/abdulazizdot/Desktop/customer-support1-agen25app/config/market.ts

```
// /app/config/market.ts
export const API_KEY = process.env.NEXT_PUBLIC_TWELVE_DATA_API_KEY || 'b82e4abed0b347e7bd07c5d33cc753e3';
export const API_URL = 'https://api.twelvedata.com';
export const WS_URL = 'wss://ws.twelvedata.com/v1/quotes/price';
export interface CompanyLogo {
  meta: {
    symbol: string;
    name: string;
    currency: string;
    exchange: string;
    mic_code: string;
    exchange_timezone: string;
  url: string;
// Helper function to format symbol for API calls
export function formatSymbol(tickerSymbol: string) {
   return '${tickerSymbol}:TADAWUL';
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',
           name\_ar: \ '\emptyset \pm \emptyset \pm \emptyset \$ \mathring{\textbf{v}} \backslash 205 \mathring{\textbf{v}} \backslash 203 \mathring{\textbf{v}} \backslash 210 \ \emptyset \$ \mathring{\textbf{v}} \backslash 204 \emptyset ^3 \emptyset ^1 \mathring{\textbf{v}} \backslash 210 \emptyset ^- \mathring{\textbf{v}} \backslash 212 \emptyset @',
           sector: 'Energy',
           website: 'www.saudiaramco.com'
           symbol: '2381:TADAWUL',
           tickerSymbol: '2381',
           name: 'Arabian Drilling'
           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: 'ا\dot{\mathbf{v}}\204\dot{\mathbf{g}}"Ø-ر\dot{\mathbf{v}}\212',
           sector: 'Transportation',
           website: 'www.bahri.sa'
       },
           symbol: '4200:TADAWUL',
           tickerSymbol: '4200',
           name: 'Aldrees',
           name_ar: 'اÙ\204درÙ\212س', 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: \dot{v}\2050\dot{v}\203\dot{v}\210,
         sector: 'Materials',
         website: 'www.mepco.biz'
},
         symbol: '3007: TADAWUL',
         tickerSymbol: '3007',
         name: 'Oasis',
        name_ar: 'ù\210ø§ø-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: 'اÜ\204Ü\203Ø«Ü\212رÜ\212',
sector: 'Materials',
         website: 'www.alkathiri.com'
},
         symbol: '2001:TADAWUL',
         tickerSymbol: '2001',
         name: 'Chemanol',
         name_ar: '\u00fa\212\u00fa\216\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa\210\u00fa
         sector: 'Materials',
         website: 'www.chemanol.com'
},
         symbol: '2010: TADAWUL',
         tickerSymbol: '2010',
         name: 'SABIC',
         name_ar: 'Ø3Ø$Ø"Ù\203',
         sector: 'Materials',
         website: 'www.sabic.com'
},
         symbol: '2020:TADAWUL',
         tickerSymbol: '2020',
         name: 'SABIC Agri-Nutrients',
         sector: 'Materials',
         website: 'www.sabic-agri.com'
},
         symbol: '2060:TADAWUL',
         tickerSymbol: '2060',
         name: 'Tasnee'
         name_ar: 'تØμῢ\206ῢ\212ع',
         sector: 'Materials',
         website: 'www.tasnee.com'
         symbol: '2170:TADAWUL',
         tickerSymbol: '2170',
         name: 'Alujain',
```

```
name_ar: 'Ø$\dangle \dangle \d
         sector: 'Materials',
         website: 'www.alujain.com'
},
         symbol: '2210:TADAWUL',
         tickerSymbol: '2210',
         name: 'Nama Chemicals'
         name\_ar: ~'\dot{\textbf{U}} \backslash 206\dot{\textbf{U}} \backslash 205 \not \otimes \not \otimes \vec{\textbf{y}} ~\dot{\textbf{U}} \backslash 204\dot{\textbf{U}} \backslash 203\dot{\textbf{U}} \backslash 212\dot{\textbf{U}} \backslash 205 \not \otimes \dot{\textbf{S}}\dot{\textbf{U}} \backslash 212 \not \otimes \not \otimes \vec{\textbf{y}} ^a \ \emph{,}
         sector: 'Materials',
         website: 'www.nama.com.sa'
},
         symbol: '2250:TADAWUL',
         tickerSymbol: '2250',
         name: 'SIIG',
         name_ar: 'ØŞÜ\204Ü\205جÜ\205Ü\210عØ@ ØŞÜ\204سعÜ\210دÜ\212Ø@',
         sector: 'Materials',
         website: 'www.siig.com.sa'
},
         symbol: '2290:TADAWUL',
         tickerSymbol: '2290',
         name: 'Yansab',
         name_ar: '\u00fc\212\u00fc\20603\00fg\"',
         sector: 'Materials',
         website: 'www.yansab.com.sa'
         symbol: '2310:TADAWUL',
         tickerSymbol: '2310',
         name: 'Sipchem',
         name_ar: \sqrt{g^3g^2} \sqrt{203} \sqrt{212} \sqrt{205},
         sector: 'Materials',
         website: 'www.sipchem.com'
},
         symbol: '2330:TADAWUL',
         tickerSymbol: '2330',
         name: 'Advanced',
         name_ar: 'ØSÙ\204Ù\205ØaÙ\202Ø~Ù\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\204Û\210Ø"رÙ\212Ù\201',
         sector: 'Energy',
         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: 'Ø$\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge\dagge
         sector: 'Materials',
         website: 'www.apc.com.sa'
},
         symbol: '2240:TADAWUL',
         tickerSymbol: '2240',
         name: 'Zamil Industrial'
         name\_ar: \ ' \varnothing \S \mathring{\text{U}} \backslash 204 \varnothing^2 \varnothing \S \mathring{\text{U}} \backslash 205 \mathring{\text{U}} \backslash 204 \mathring{\text{U}} \backslash 204 \varnothing \mu \mathring{\text{U}} \backslash 206 \varnothing \S \varnothing^1 \varnothing \complement',
         sector: 'Materials',
         website: 'www.zamilindustrial.com'
},
         symbol: '2360:TADAWUL',
         tickerSymbol: '2360',
         name: 'SVCP',
         name_ar: 'اÙ\204Ù\201خارÙ\212Ø©',
         sector: 'Materials',
         website: 'www.svcp.com.sa'
},
         symbol: '1304:TADAWUL',
         tickerSymbol: '1304',
         name: 'Alyamamah Steel',
         name_ar: 'Ø$\dark{\pi}\204\dark{\pi}\212\dark{\pi}\205\g\dark{\pi}\205\g\dark{\pi}\204\dark{\pi}\212\dark{\pi}',
         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',
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         name: 'Maaden',
        name_ar: 'Ù\205عادÙ\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',
         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$Ù\204Ø3Ø"Ù\203',
         sector: 'Materials',
         website: 'www.spm.com.sa'
},
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{
                 symbol: '3002:TADAWUL',
                 tickerSymbol: '3002',
                 name: 'Najran Cement'
                 name_ar: \% \pm \emptyset^3 \dot{U} = 0.000
                sector: 'Materials',
                website: 'www.najrancement.com'
},
                 symbol: '3003: TADAWUL',
                tickerSymbol: '3003',
                name: 'City Cement',
                name_ar: \begin{subarray}{ll} $\bar{y} = \bar{y} = \bar{y}
                 sector: 'Materials',
                 website: 'www.citycement.com.sa'
},
                symbol: '3004:TADAWUL',
                 tickerSymbol: '3004',
                 name: 'Northern Cement'
                name_ar: 'Ø£Ø3Ù\205Ù\206ت ØSÙ\204Ø'Ù\205ØSÙ\204Ù\212Ø@',
                 sector: 'Materials',
                website: 'www.northerncement.com'
},
                 symbol: '3010:TADAWUL',
                 tickerSymbol: '3010',
                name: 'ACC'
                 name_ar: 'Ø£Ø3Ù\205Ù\206ت اÙ\204عرØ"Ù\212Ø©',
                 sector: 'Materials',
                website: 'www.arabiacement.com.sa'
},
                 symbol: '3020:TADAWUL',
                 tickerSymbol: '3020',
                name: 'YC',
                name_ar: 'أسÙ\205Û\206Ø* Ù\212Ù\206Ø"ع', sector: 'Materials',
                website: 'www.yanbu-cement.com'
},
                 symbol: '3030:TADAWUL',
                 tickerSymbol: '3030',
                name: 'Saudi Cement',
                 name_ar: \%£Ø^3\dot{U}\205\dot{U}\206Ø^a ا\dot{U}\204Ø^3Ø^1\dot{U}\210Ø^-\dot{U}\212Ø^0',
                 sector: 'Materials',
                 website: 'www.saudicement.com.sa'
                 symbol: '3040:TADAWUL',
                tickerSymbol: '3040',
                name: 'QACCO',
                 name_ar: \%£03\dot{0}\205\dot{0}\2060^a 0$\dot{0}\204\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot{0}\2020\dot
                 sector: 'Materials',
                 website: 'www.qcc.com.sa'
},
                 symbol: '3050: TADAWUL',
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                name: 'SPCC',
                name_ar: 'Ø£Ø3Ù\205Ù\206ت ØSÙ\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{G}^{1},
                 sector: 'Materials',
                website: 'www.yanbu-cement.com'
                 symbol: '3080:TADAWUL',
                 tickerSymbol: '3080',
                name: 'EPCCO',
                sector: 'Materials',
                website: 'www.epcco.com.sa'
},
                 symbol: '3090:TADAWUL',
                 tickerSymbol: '3090',
                name: 'TCC',
                name_ar: 'أسÙ\205Û\206Ø* Ø*Ø"Ù\210Ù\203', sector: 'Materials',
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website: 'www.tcc.sa'
},
{
   symbol: '3091:TADAWUL',
   tickerSymbol: '3091',
   name: 'Jouf Cement',
   name_ar: 'Ø£Ø3Ù\205Ù\206ت اÙ\204جÙ\210Ù\201',
   sector: 'Materials',
   website: 'www.joufcement.com'
   symbol: '3005: TADAWUL',
   tickerSymbol: '3005',
   name: 'UACC',
   name_ar: /Ø£Ø^3\dot{U}\205\dot{U}\206Ø^a ا\dot{U}\204\dot{U}\205Ø^aØ-Ø^-Ø^0,
   sector: 'Materials',
   website: 'www.uacc.com.sa'
},
   symbol: '3092:TADAWUL',
   tickerSymbol: '3092',
   name: 'Riyadh Cement'
   name_ar: \% \pm \emptyset^3 \dot{U} = 0.000
   sector: 'Materials',
   website: 'www.riyadhcement.com.sa'
},
   symbol: '4142:TADAWUL',
   tickerSymbol: '4142',
   name: 'Riyadh Cables'
   sector: 'Capital Goods',
   website: 'www.riyadh-cables.com'
},
   symbol: '2160:TADAWUL',
   tickerSymbol: '2160',
   name: 'Amiantit'
   name_ar: 'Ø£Ù\205Ù\212اÙ\206ذÙ\212ذ',
   sector: 'Capital Goods',
   website: 'www.amiantit.com'
},
   symbol: '4140:TADAWUL',
   tickerSymbol: '4140',
   name: 'SIECO'
   name_ar: 'سÜ\212سÙ\203Ù\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\210اÙ\206',
   sector: 'Capital Goods',
   website: 'www.bawan.com.sa'
},
   symbol: '2370:TADAWUL',
   tickerSymbol: '2370',
   name: 'MESC',
   name_ar: '\u00fg3\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',
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name_ar: 'Ø'اÙ\203ر',
              sector: 'Capital Goods',
              website: 'www.shaker.com.sa'
},
              symbol: '2320:TADAWUL',
             tickerSymbol: '2320',
             name: 'Albabtain'.
             name_ar: 'ا\dot{v}\204\dot{\phi}"ا\dot{\phi}"Ø\dot{v}\212\dot{v}\206', sector: 'Capital Goods',
              website: 'www.albabtain.com.sa'
},
              symbol: '2110:TADAWUL',
              tickerSymbol: '2110',
             name: 'Saudi Cable',
              name_ar: 'ØŞÙ\204Ù\203ØŞØ"Ù\204ØŞØª ØŞÙ\204سعÙ\210دÙ\212Ø©',
              sector: 'Capital Goods',
             website: 'www.saudicable.com'
},
              symbol: '2040:TADAWUL',
              tickerSymbol: '2040',
              name: 'Saudi Ceramics',
              name_ar: /Ø\$\dot{U}\204Ø@Ø^2\dot{U}\201 ا\dot{U}\204Ø^3Ø^1\dot{U}\210Ø^-\dot{U}\212',
              sector: 'Capital Goods',
              website: 'www.saudiceramics.com'
              symbol: '4110:TADAWUL',
             tickerSymbol: '4110',
             name: 'BATIC',
             name_ar: 'Ø"اتÙ\203',
              sector: 'Capital Goods',
              website: 'www.batic.com.sa'
},
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             name: 'Alomran',
             name_ar: 'اÙ\204عÙ\205راÙ\206',
              sector: 'Capital Goods',
             website: 'www.alomran.com.sa'
},
              symbol: '4143:TADAWUL',
              tickerSymbol: '4143',
              name: 'TALCO',
             name_ar: 'تاÙ\204Ù\203Ù\210',
              sector: 'Capital Goods',
             website: 'www.talco.com.sa'
              symbol: '4270:TADAWUL',
              tickerSymbol: '4270',
             name: 'SPPC',
             name_ar: '\emptyset$\dot{\hat{U}}\204\dot{\hat{U}}\205\emptyset•\emptyset"\emptyset1\emptyset©',
              sector: 'Commercial & Professional Services',
              website: 'www.sppc.com.sa'
},
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             name: 'Maharah',
              name_ar: '\u00fc\u00e4205\u00fc\u00e4207\u00fc\u00e49\u00e4\u00e40\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4
              sector: 'Commercial & Professional Services',
              website: 'www.maharah.com.sa'
},
              symbol: '6004: TADAWUL',
             tickerSymbol: '6004',
             name: 'Catrion',
              name_ar: \dot{v}\203\phi \sin^2\phi \pm \dot{v}\212\dot{v}\210\dot{v}\206',
              sector: 'Commercial & Professional Services',
              website: 'www.catrion.com.sa'
},
              symbol: '1833:TADAWUL',
              tickerSymbol: '1833',
              name: 'Almawarid'
             name_ar: 'Ø$\u00fc\204\u00fc\210\u00fg\end{array} \dagget \u00e4 
              sector: 'Commercial & Professional Services',
              website: 'www.almawarid.com.sa'
},
              symbol: '1832:TADAWUL',
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            name_ar: 'صدر',
            sector: 'Commercial & Professional Services',
            website: 'www.sadr.com.sa'
},
            symbol: '1834:TADAWUL',
            tickerSymbol: '1834',
            name: 'Smasco',
            name_ar: '\emptyset^3\dot{U}\205\emptyset\$\emptyset^3\dot{U}\203\dot{U}\210',
            sector: 'Commercial & Professional Services',
            website: 'www.smasco.com.sa'
},
            symbol: '4040:TADAWUL',
            tickerSymbol: '4040',
            name: 'SAPTCO',
            name_ar: 'Ø3Ø$Ø"تÙ\203Ù\210',
            sector: 'Transportation',
            website: 'www.saptco.com.sa'
},
            symbol: '4260:TADAWUL',
            tickerSymbol: '4260',
            name: 'Budget Saudi',
            name_ar: /\bar{g}^{"}\bar{g}^{-}\bar{g}^{-}\bar{g}^{a} \bar{g}^{\dot{\dot{u}}}\204\bar{g}^{\dot{\dot{u}}}\210\bar{g}^{-\dot{\dot{u}}}\212\bar{g}^{\dot{a}},
            sector: 'Transportation',
            website: 'www.budgetsaudi.com'
},
            symbol: '4031:TADAWUL',
            tickerSymbol: '4031',
            name: 'SGS',
            name\_ar: \ '\emptyset\S\grave{U}\ 204\emptyset\$\emptyset^-\grave{U}\ 205\emptyset\$\emptyset^a\ \emptyset\S\grave{U}\ 204\emptyset\$\emptyset^+\mathring{U}\ 212\emptyset\$',
            sector: 'Transportation',
            website: 'www.sgs.com.sa
            symbol: '4261:TADAWUL',
            tickerSymbol: '4261',
            name: 'Theeb'
            name_ar: 'ذÙ\212Ø"'
            sector: 'Transportation',
            website: 'www.theeb.com.sa'
},
            symbol: '4262:TADAWUL',
            tickerSymbol: '4262',
            name: 'Lumi',
            name_ar: '\u00fc\204\u00fc\210\u00fc\205\u00fc\212',
            sector: 'Transportation',
            website: 'www.lumi.com.sa'
},
            symbol: '4263:TADAWUL',
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            name: 'SAL',
            name_ar: 'Ø3Ø$Ù\204',
            sector: 'Transportation',
            website: 'www.sal.com.sa
            symbol: '2190:TADAWUL',
            tickerSymbol: '2190',
            name: 'SISCO Holding',
           name_ar: 'سÜ\212سÜ\203Ü\210', sector: 'Transportation',
            website: 'www.sisco.com.sa'
},
            symbol: '4180:TADAWUL',
            tickerSymbol: '4180',
            name: 'Fitaihi Group',
            name_ar: \dot{v}\205\phi \dot{v}\205\dot{v}\210\phi \dot{v}\00\dot{v}\201\phi \dot{v}\201\phi \dot{v}\212\phi 
            sector: 'Consumer Durables & Apparel',
            website: 'www.fitaihi.com.sa'
},
            symbol: '4012:TADAWUL',
            tickerSymbol: '4012',
            name: 'Alaseel',
            name_ar: 'ØŞÙ\204Ø£ØμÙ\212Ù\204',
            sector: 'Consumer Durables & Apparel',
            website: 'www.alaseel.com.sa'
},
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{
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    name_ar: '\dot{U}\204\phi S\phi^2\dot{U}\210\phi \pm\phi^-\dot{U}\212',
    sector: 'Consumer Durables & Apparel',
    website: 'www.lazurde.com'
},
    symbol: '2130:TADAWUL',
    tickerSymbol: '2130',
    name: 'SIDC',
    sector: 'Consumer Durables & Apparel',
    website: 'www.sidc.com.sa'
},
    symbol: '1213:TADAWUL',
    tickerSymbol: '1213',
    name: 'Naseej',
    name_ar: 'Ù\206Ø3Ù\212ج',
    sector: 'Consumer Durables & Apparel',
    website: 'www.naseej.com.sa'
},
    symbol: '2340:TADAWUL',
    tickerSymbol: '2340',
    name: 'Artex'
    name_ar: /\emptyset \pm \emptyset \pm \emptyset = \dot{U} \setminus 203 \emptyset^3',
    sector: 'Consumer Durables & Apparel',
    website: 'www.artex.com.sa'
},
    symbol: '1810:TADAWUL',
    tickerSymbol: '1810',
    name: 'Seera'
    name_ar: 'سÙ\212را',
sector: 'Consumer Services',
    website: 'www.seera.sa'
},
    symbol: '4170:TADAWUL',
    tickerSymbol: '4170',
    name: 'TECO',
    name_ar: 'ØaÙ\212Ù\203Ù\210',
    sector: 'Consumer Services',
    website: 'www.teco.com.sa'
    symbol: '1820:TADAWUL',
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    name: 'Alhokair Group'
    name_ar: \dot{v}\205\phi \dot{v}\205\dot{v}\210\phi^1\phi \phi \phi \dot{v}\204\phi \dot{v}\203\dot{v}\212\phi \dot{v},
    sector: 'Consumer Services',
    website: 'www.alhokair.com.sa'
},
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    name\_ar: \ '\dot{U}\ 2070 \pm \dot{U}\ 201 \\ \dot{U}\ 201 \\ \dot{U}\ 204 \\ \dot{U}\ 2040 \pm 0^{\circ}0^{\circ}\dot{U}\ 2120 \\ 0^{\circ}.
    sector: 'Consumer Services',
    website: 'www.herfy.com'
},
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    name: 'Burgerizzr',
    name_ar: 'Ø"رذرØ$Ù\212Ø2Ø2ر',
    sector: 'Consumer Services',
    website: 'www.burgerizzr.com'
    symbol: '6013:TADAWUL',
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name_ar: 'دŮ\210Ù\201',
    sector: 'Consumer Services',
    website: 'www.dwf.com.sa'
},
    symbol: '6015: TADAWUL',
    tickerSymbol: '6015',
    name: 'Americana',
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                name_ar: \dot{\hat{U}}\206\dot{\hat{U}}\203\dot{\hat{U}}\204\dot{\hat{U}}\212',
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},
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},
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},
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                sector: 'Consumer Services',
               website: 'www.alamar.com.sa'
},
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},
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               name: 'TAPRCO',
                name_ar: 'ؕاØ"Ù\203Ù\210',
                sector: 'Media and Entertainment',
                website: 'www.taprco.com.sa'
},
                symbol: '4210:TADAWUL',
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                sector: 'Media and Entertainment',
                website: 'www.srmg.com'
},
                symbol: '4071:TADAWUL',
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                name: 'Alarabiya',
               name_ar: 'Ø$\u00fc\\204\\000fc\\212\\000fc\\\212\\000fc\\\000fc\\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\\000fc\000fc\\000fc\\000fc\000fc\000fc\\000fc\000fc\000fc\\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\0000fc\000fc\000fc\000fc\000fc\000fc\000fc\000fc\0000fc\0000fc\000fc\000fc\000fc\000fc\000
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},
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},
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},
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    website: 'www.baazeem.com.sa'
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},
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     website: 'www.nahdi.sa'
},
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     website: 'www.thimar.com.sa'
},
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     website: 'www.farm.com.sa'
},
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     sector: 'Food & Beverages',
     website: 'www.hb.com.sa'
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     website: 'www.naqi.com.sa'
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     website: 'www.firstmills.com.sa'
     symbol: '2284:TADAWUL',
     tickerSymbol: '2284',
     name: 'Modern Mills'.
     name\_ar: \ ' \varnothing \S \grave{u} \backslash 204 \grave{u} \backslash 205 \varnothing \bullet \varnothing \S \varnothing - \grave{u} \backslash 206 \ \varnothing \S \grave{u} \backslash 204 \varnothing - \varnothing ^- \grave{u} \backslash 212 \varnothing \ll \varnothing \varnothing ' \text{,}
     sector: 'Food & Beverages',
     website: 'www.modernmills.com.sa'
},
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     tickerSymbol: '2285',
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     sector: 'Food & Beverages',
     website: 'www.arabianmills.com.sa'
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     name: 'Fourth Milling',
     name_ar: \%$\hat{U}\204\hat{U}\205\emptyset•\emptyset$\emptyset-\hat{U}\206\emptyset$\hat{U}\204\emptyset±\emptyset$\emptyset"\emptyset1\emptyset0',
     sector: 'Food & Beverages',
     website: 'www.fourthmilling.com.sa'
},
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     sector: 'Food & Beverages',
     website: 'www.nadec.com.sa'
},
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     name: 'GACO',
     name_ar: '\emptyset \neg \dot{\dot{\mathbf{V}}} \setminus 203\dot{\dot{\mathbf{V}}} \setminus 210',
     sector: 'Food & Beverages',
     website: 'www.gaco.com.sa'
},
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     name_ar: 'تØSØ-Ù\203Ù\210',
     sector: 'Food & Beverages',
     website: 'www.tadco.com.sa'
},
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     tickerSymbol: '6050',
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     name_ar: '\emptyset\mu\dot{U}\201\dot{U}\203\dot{U}\210',
     sector: 'Food & Beverages',
     website: 'www.sfico.com.sa
},
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     tickerSymbol: '6060',
     name: 'Sharqiyah Dev',
     name_ar: /g$\tilde{\pi}\204\pi^a\tilde{\pi}\206\tilde{\pi}\212\pi^e \ \pi\\204\pi'\\202\tilde{\pi}\\212\pi^e', sector: 'Food & Beverages',
     website: 'www.sharqiyahdev.com.sa'
},
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     tickerSymbol: '6070',
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     name_ar: 'Ø$\doldo\204\sigma\doldo\201',
     sector: 'Food & Beverages',
     website: 'www.aljouf.com.sa'
     symbol: '6090:TADAWUL',
     tickerSymbol: '6090',
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     name_ar: ' \emptyset \neg \emptyset \S \emptyset^2 \emptyset \S \emptyset^- \mathring{U} \setminus 203 \mathring{U} \setminus 210',
     sector: 'Food & Beverages',
     website: 'www.jazadco.com'
},
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     tickerSymbol: '2281',
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     name_ar: 'ØaÙ\206Ù\205Ù\212Ø@',
     sector: 'Food & Beverages',
     website: 'www.tanmiah.com'
},
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     website: 'www.savola.com'
     symbol: '2100:TADAWUL',
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     name_ar: '\dot{\mathbf{U}}\210\dot{\mathbf{U}}\2010\pm00',
     sector: 'Food & Beverages',
     website: 'www.wafrah.com.sa'
},
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     name_ar: 'سداÜ\201Ü\203Ü\210',
sector: 'Food & Beverages',
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                     sector: 'Banks',
                      website: 'www.saib.com.sa'
},
                      symbol: '1050:TADAWUL',
                      tickerSymbol: '1050',
                     name: 'BSF',
                     name_ar: 'ØŞÜ\204Ø"Ù\206Ü\203 ØŞÜ\204Ø3Ø1Ü\210Ø"Ù\212 ØŞÜ\204Ü\201رÜ\206Ø3Ü\212',
                      sector: 'Banks',
                      website: 'www.bsf.com.sa'
},
                      symbol: '1060: TADAWUL',
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                     name: 'SAB',
                     name\_ar: \ '\emptyset\$\mathring{v}\ 204\emptyset"\mathring{v}\ 206\mathring{v}\ 203\ \emptyset\$\mathring{v}\ 204\emptyset^3\emptyset^1\mathring{v}\ 210\emptyset"\mathring{v}\ 212\ \emptyset\$\mathring{v}\ 204\emptyset"\emptyset^2\mathring{v}\ 212\emptyset*\emptyset\$\mathring{v}\ 2120*\emptyset\$\mathring{v}\ 2120*\emptyset\mathring{v}\ 2120*0\mathring{v}\ 2120*0\mathring{
                     sector: 'Banks',
                      website: 'www.sabb.com'
},
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                     sector: 'Banks',
                      website: 'www.anb.com.sa'
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             sector: 'Banks',
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},
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              name: 'Albilad',
             name_ar: 'ø"ù\206ù\203 اù\204ø"ù\204اø"',
              sector: 'Banks',
             website: 'www.bankalbilad.com'
},
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              name_ar: 'Ø"Ù\206Ù\203 Ø$Ù\204Ø¥Ù\206Ù\205Ø$Ø;',
              sector: 'Banks',
             website: 'www.alinma.com'
},
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              tickerSymbol: '1180',
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              name_ar: 'ØŞÜ\204Ø"Ù\206Ù\203 ØŞÜ\204Ø£Ù\207Ù\204Ù\212 ØŞÙ\204Ø3Ø1\\2109"Ù\212',
              sector: 'Banks',
             website: 'www.alahli.com'
},
              symbol: '1183:TADAWUL',
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              name: 'SHL',
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              sector: 'Financial Services',
              website: 'www.shl.com.sa'
              symbol: '1182:TADAWUL',
             tickerSymbol: '1182',
             name: 'Amlak',
             name_ar: 'Ø£Ù\205Ù\204اÙ\203',
              sector: 'Financial Services',
              website: 'www.amlak.com.sa'
},
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             name_ar: '\u00cd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u00dd\u
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},
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              name: 'Tadawul Group'
             name_ar: \dot{U}\205\phi\dot{U}\205\dot{U}\210\phi\dot{O} \phi^a\phi^a\phi^b\dot{U}\210\dot{U}\204',
              sector: 'Financial Services',
             website: 'www.tadawul.com.sa'
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              tickerSymbol: '4082',
             name: 'MRNA',
             name_ar: '\u00fc\u00e4205\u00dft\u00e4206\u00dft\u00dft\u00e4206\u00dft\u00e4206\u00dft\u00e4206\u00dft\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e4206\u00e420
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              website: 'www.mrna.com.sa'
},
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              name_ar: 'اÙ\204Ø"اØ-Ø©',
              sector: 'Financial Services',
              website: 'www.albaha.com.sa'
},
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              name_ar: 'Ø3Ù\212Ø3Ù\203Ù\210',
              sector: 'Financial Services',
              website: 'www.saic.com.sa'
},
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    name_ar: 'ØŞÜ\204Ü\205Ü\205Ü\204Ü\203Ø@', sector: 'Financial Services',
    website: 'www.kingdom.com.sa
},
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    tickerSymbol: '8313',
    name: 'Rasan',
    name_ar: 'رساÙ\206',
     sector: 'Insurance',
     website: 'www.rasan.com.sa'
},
    symbol: '8010:TADAWUL',
     tickerSymbol: '8010',
     name: 'Tawuniya',
    sector: 'Insurance',
    website: 'www.tawuniya.com.sa'
},
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    name: 'Malath Insurance',
     name\_ar: \ '\dot{U}\ 205\dot{U}\ 2040 \ \dot{U}\ 204\dot{U}\ 2040 \ \dot{U}\ 205\dot{U}\ 212\dot{U}\ 206',
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    website: 'www.malath.com.sa'
},
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    name_ar: 'Ü\205Ü\212دذÜ\204Ü\201',
sector: 'Insurance',
    website: 'www.medgulf.com.sa'
},
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     tickerSymbol: '8060',
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     name_ar: '\u00fc\210\u00fc\204\u00fg\u00e4',
     sector: 'Insurance',
     website: 'www.walaa.com.sa'
     symbol: '8040:TADAWUL',
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    name: 'Allianz SF',
     name_ar: 'Ø£Ù\204Ù\212ØŞÙ\206Ø2 Ø¥Ø3 Ø¥Ù\201',
     sector: 'Insurance',
     website: 'www.allianz.com.sa'
},
     symbol: '8070: TADAWUL',
     tickerSymbol: '8070',
     name: 'Arabian Shield',
    name_ar: \langle \emptyset S \hat{U} \rangle 204 \emptyset^{-} \emptyset \pm \emptyset^{1} \emptyset S \hat{U} \rangle 204 \emptyset^{1} \emptyset \pm \emptyset^{-} \hat{U} \rangle 212',
     sector: 'Insurance',
    website: 'www.arabianshield.com.sa'
},
     symbol: '8050:TADAWUL',
     tickerSymbol: '8050',
     name: 'Salama',
    name_ar: 'Ø3 Ù\204Ø$ Ù\205Ø@',
     sector: 'Insurance',
    website: 'www.salama.com.sa'
     symbol: '8100:TADAWUL',
     tickerSymbol: '8100',
    name: 'SAICO',
    name_ar: 'Ø3Ø$\dot{\dot{0}}\212\dot{\dot{\dot{0}}\203\dot{\dot{\dot{\dot{0}}}\, sector: 'Insurance',
    website: 'www.saico.com.sa'
},
     symbol: '8012:TADAWUL',
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         name_ar: 'ØŞÙ\204Ø@Ù\204Ù\212ج ØŞÙ\204Ø£Ù\207Ù\204Ù\212Ø©',
         sector: 'Insurance',
         website: 'www.gulfunion.com.sa'
         symbol: '8150:TADAWUL',
         tickerSymbol: '8150',
         name: 'ACIG',
        name_ar: 'ا\dot{\dot{v}}\204\dot{\dot{v}}\205\dot{\phi}-\dot{\dot{v}}\205\dot{\dot{v}}\210\dot{\phi}1\dot{\phi}© ا\dot{\dot{v}}\205\dot{\phi}2\dot{\phi}0\dot{\phi}0°, sector: 'Insurance',
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},
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         name: 'AICC',
        name_ar: 'Ø£Ù\203Ø3ا',
         sector: 'Insurance',
         website: 'www.aicc.com.sa'
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         sector: 'Insurance',
         website: 'www.aletihad.com.sa'
},
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         sector: 'Insurance',
         website: 'www.alsagr.com.sa'
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         tickerSymbol: '8190',
         name: 'UCA',
        website: 'www.uca.com.sa'
},
         symbol: '8200:TADAWUL',
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         name: 'Saudi Re',
         name_ar: 'إعØ$دØ© Ø$Ù\204سعÙ\210دÙ\212Ø©',
         sector: 'Insurance',
         website: 'www.saudire.com'
},
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         tickerSymbol: '8210',
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         sector: 'Insurance',
         website: 'www.bupa.com.sa'
},
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         tickerSymbol: '8230',
         name: 'Alrajhi Takaful'
         name_ar: 'øaù\203ø§ù\201ù\204 ø§ù\204ø±ø§ø¬ø-ù\212',
         sector: 'Insurance',
         website: 'www.alrajhitakaful.com'
},
         symbol: '8240:TADAWUL',
         tickerSymbol: '8240',
         name: 'Chubb',
         name_ar: 'ØaØ'Ø"',
         sector: 'Insurance',
         website: 'www.chubb.com.sa'
         symbol: '8250:TADAWUL',
         tickerSymbol: '8250',
         name: 'GIG',
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         website: 'www.gig.com.sa'
},
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         name_ar: 'ØŞÜ\204Ø@Ü\204Ü\212جÜ\212Ø@ ØŞÜ\204عØŞÜ\205Ø@', sector: 'Insurance',
         website: 'www.gulfgeneral.com.sa'
},
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         name_ar: 'Ø"رÙ\210ج',
sector: 'Insurance',
         website: 'www.buruj.com.sa'
},
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         tickerSymbol: '8280',
         name: 'Liva',
         name_ar: 'ù\204ù\212ù\201ø§',
         sector: 'Insurance',
         website: 'www.liva.com.sa'
         symbol: '8300:TADAWUL',
         tickerSymbol: '8300',
         name: 'Wataniya',
         name_ar: 'Ø$\u00fc\204\u00fc\210\u00df\212\u00ge',
         sector: 'Insurance',
         website: 'www.wataniya.com.sa'
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         name_ar: 'Ø£Ü\205ØSÜ\206Ø© Ü\204Ü\204تØ£Ü\205Ü\212Ü\206',
         sector: 'Insurance',
         website: 'www.amana.com.sa'
},
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         name: 'Enaya',
         name_ar: 'عÙ\206اÙ\212Ø@',
         sector: 'Insurance',
         website: 'www.enaya.com.sa'
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         tickerSymbol: '7010',
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         name_ar: '\emptyset Y\emptyset ^3 \emptyset ^2 \mathring{U} \setminus 212 \emptyset ^3 \mathring{U} \setminus 212',
         sector: 'Telecommunication Services',
         website: 'www.stc.com.sa'
},
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         name_ar: 'Ø$تØ-Ø$Ø- Ø$تصØ$Û\204Ø$ت',
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         website: 'www.mobily.com.sa'
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         name_ar: 'اØ^aصا\dot{U}\204اØ^a Ø^1Ø^o\dot{U}\212Ø^o',
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             name_ar: 'ذØSزÙ\203Ù\210',
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              website: 'www.gasco.com.sa'
},
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              name: 'Saudi Electricity'
             sector: 'Utilities',
             website: 'www.se.com.sa'
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              name_ar: \dot{v}\205\dot{v}\2120\dot{v}\207\dot{v}\2060\dot{v},
              sector: 'Utilities',
             website: 'www.miahona.com.sa'
},
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              name_ar: 'Ø£Ù\212 دبÙ\204Ù\212Ù\210 بÙ\212 تÙ\212'.
              sector: 'Utilities',
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},
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              name_ar: 'Ø£Ù\203Ù\210Ø$ Ø"Ø$Ù\210ر',
              sector: 'Utilities',
              website: 'www.acwapower.com'
              symbol: '2083:TADAWUL',
             tickerSymbol: '2083',
             name: 'Marafiq',
             name_ar: '\u00fg\pmo\00000\u00fg\u00fg\u00da\u0000\u00da\u0000\u00da\u0000\u00da\u0000\u00da\u0000\u00da\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u00
              sector: 'Utilities',
              website: 'www.marafiq.com.sa'
},
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             name: 'Riyad REIT'
             name_ar: 'ØSÜ\204رÜ\212ØSض رÜ\212Øa',
              sector: 'REITs',
             website: 'www.riyadreit.com'
},
              symbol: '4331:TADAWUL',
              tickerSymbol: '4331',
              name: 'Aljazira REIT'
             sector: 'REITs',
             website: 'www.aljazirareit.com'
},
              symbol: '4332:TADAWUL',
              tickerSymbol: '4332',
             name: 'Jadwa REIT Alharamain',
             name\_ar:~ \text{'} \varnothing \neg \varnothing \neg \mathring{\upsilon} \backslash 210\mathring{\upsilon} \backslash 211~ \varnothing \pm \mathring{\upsilon} \backslash 212 \varnothing^a~ \varnothing \S \mathring{\upsilon} \backslash 204 \varnothing - \varnothing \pm \mathring{\upsilon} \backslash 205 \mathring{\upsilon} \backslash 212 \mathring{\upsilon} \backslash 206 \text{'}.
              sector: 'REITs',
              website: 'www.jadwareit.com'
},
              symbol: '4333:TADAWUL',
              tickerSymbol: '4333',
             name: 'Taleem REIT',
             name_ar: 'تعÙ\204Ù\212Ù\205 رÙ\212ت',
              sector: 'REITs',
              website: 'www.taleemreit.com'
},
              symbol: '4334:TADAWUL',
              tickerSymbol: '4334',
              name: 'Al Maather REIT',
              name_ar: 'Ø$\darkappa \lambda 204\darkappa \lambda 205\darkappa \darkappa \d
              sector: 'REITs',
              website: 'www.almaatherreit.com'
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                   name: 'Musharaka REIT'
                    name_ar: \dot{v}\205\emptyset'\emptyset\$\emptyset\pm\dot{v}\203\emptyset\emptyset \emptyset\pm\dot{v}\212\emptyset^a',
                  sector: 'REITs',
                   website: 'www.musharakareit.com'
},
                    symbol: '4336: TADAWUL',
                   tickerSymbol: '4336',
                   name: 'Mulkia REIT',
                  name_ar: '\u00fc\205\u00fc\204\u00e0\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00dfe\212\u00
                    sector: 'REITs',
                    website: 'www.mulkiareit.com'
},
                   symbol: '4337:TADAWUL',
                    tickerSymbol: '4337',
                    name: 'SICO Saudi REIT'
                  name_ar: \langle \emptyset^3 \mathring{U} \rangle 212 \mathring{U} \rangle 203 \mathring{U} \rangle 210 \emptyset S \mathring{U} \rangle 204 \emptyset S \mathring{U} \rangle 210 \emptyset S \mathring{U} \rangle 212 
                    sector: 'REITs',
                   website: 'www.sicoreit.com'
},
                   symbol: '4338:TADAWUL',
                    tickerSymbol: '4338',
                   name: 'Alahli REIT 1'
                    name_ar: 'ا\dot{v}\204\dot{v}\207\dot{v}\204\dot{v}\212 ر\dot{v}\212\dot{v}° 1',
                    sector: 'REITs',
                   website: 'www.alahlireit.com'
},
                    symbol: '4344:TADAWUL',
                    tickerSymbol: '4344',
                   name: 'Sedco Capital REIT',
                    name_ar: /\emptyset^3\emptyset^-\dot{U}^203\dot{U}^210\dot{U}^203\emptyset\$\emptyset^"\dot{U}^212\emptyset^2\emptyset\$\dot{U}^204\dot{U}^212\emptyset^2,
                    sector: 'REITs',
                   website: 'www.sedcoreit.com'
},
                    symbol: '4339:TADAWUL',
                    tickerSymbol: '4339',
                   name: 'Derayah REIT',
                   name_ar: 'ø ø±ø§ù\212ø@ ø±ù\212øa',
                    sector: 'REITs',
                    website: 'www.derayahreit.com'
                    symbol: '4340:TADAWUL',
                   tickerSymbol: '4340',
                   name: 'Al Rajhi REIT',
                    name_ar: '\emptyset S\dot{U} \ 204\emptyset \pm \emptyset S\emptyset \neg \emptyset - \dot{U} \ 212 \emptyset \pm \dot{U} \ 212\emptyset a',
                    sector: 'REITs',
                    website: 'www.alrajhireit.com'
},
                    symbol: '4345:TADAWUL',
                  tickerSymbol: '4345',
name: 'Alinma Retail REIT',
                   name_ar: 'ØSÙ\204Ø¥Ù\206Ù\205ØSØ; رÙ\212ت Ù\204Û\204تجزئØ©',
                    sector: 'REITs',
                   website: 'www.alinmareit.com'
},
                    symbol: '4342:TADAWUL',
                    tickerSymbol: '4342',
                    name: 'Jadwa REIT Saudi',
                   sector: 'REITs',
                   website: 'www.jadwareit.com'
                    symbol: '4346:TADAWUL',
                   tickerSymbol: '4346',
                   name: 'MEFIC REIT'.
                   name_ar: \dot{\psi}205\dot{\psi}212\dot{\psi}201\dot{\psi}203 \phi \pm \dot{\psi}212\phi^{a},
                    sector: 'REITs',
                   website: 'www.meficreit.com'
},
                    symbol: '4347:TADAWUL',
                    tickerSymbol: '4347',
                   name: 'Bonyan REIT',
                    name_ar: 'ø"ù\206ù\212ø$ù\206 ø±ù\212øa',
                    sector: 'REITs',
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website: 'www.bonyanreit.com'
},
{
                   symbol: '4348:TADAWUL',
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                  name: 'Alkhabeer REIT'
                  sector: 'REITs',
                  website: 'www.alkhabeerreit.com'
                   symbol: '4349:TADAWUL',
                   tickerSymbol: '4349',
                   name: 'Alinma Hospitality REIT',
                   sector: 'REITs',
                   website: 'www.alinmareit.com'
},
                   symbol: '4350:TADAWUL',
                  tickerSymbol: '4350',
                  name: 'Alistithmar REIT'.
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},
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                   name: 'Alakaria',
                  name_ar: 'Ø$\u00fc\u00e40\u00e4\u00fc\u00e40\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00e4\u00
                   sector: 'Real Estate Mgmt & Dev\'t',
                  website: 'www.alakaria.com.sa'
},
                   symbol: '4090:TADAWUL',
                   tickerSymbol: '4090',
                  name: 'Taiba',
                   name_ar: 'Ø•ù\2120"00',
                   sector: 'Real Estate Mgmt & Dev\'t',
                  website: 'www.taiba.com.sa'
},
                   symbol: '4100:TADAWUL',
                   tickerSymbol: '4100',
                  name: 'MCDC',
                  name_ar: 'Ù\205Ù\203Ø@',
sector: 'Real Estate Mgmt & Dev\'t',
                   website: 'www.mcdc.com.sa'
},
                   symbol: '4150:TADAWUL',
                   tickerSymbol: '4150',
                  name: 'ARDCO',
                   name_ar: 'Ø$Ù\204أرض',
                   sector: 'Real Estate Mgmt & Dev\'t',
                   website: 'www.ardco.com.sa'
},
                   symbol: '4220:TADAWUL',
                  tickerSymbol: '4220',
                  name: 'Emaar EC',
                   name\_ar: \ '@ \S @ 1 \dot{v} \ 205 @ 9 \dot{v} \ 204 \dot{v} \ 205 @ 1 \dot{v} \ 212 \dot{v} \ 206 @ 9 \dot{v} \ 204 @ 9 \dot{v} \ 202 @ 9 \dot{v} \ 202 @ 9 \dot{v} \ 212 @ 9 \dot{v} \ 
                   sector: 'Real Estate Mgmt & Dev\'t',
                   website: 'www.emaar.com.sa'
},
                   symbol: '4250:TADAWUL',
                   tickerSymbol: '4250',
                   name: 'Jabal Omar',
                  name_ar: /\emptyset \neg \emptyset"\dot{U} \setminus 204 \emptyset \dot{U} \setminus 205 \emptyset \pm \prime,
                   sector: 'Real Estate Mgmt & Dev\'t',
                   website: 'www.jabalomar.com.sa'
},
                   symbol: '4300:TADAWUL',
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                   name: 'Dar Alarkan',
                  name_ar: 'Ø Ø$ر Ø$Û\204أرÛ\203Ø$Û\206',
                   sector: 'Real Estate Mgmt & Dev\'t',
                  website: 'www.daralarkan.com'
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                   tickerSymbol: '4310',
                   name: 'KEC',
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},
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         name: 'Alandalus'.
         name_ar: 'ØŞÜ\204Ø£Ü\206دÜ\204س',
sector: 'Real Estate Mgmt & Dev\'t',
         website: 'www.alandalus.com.sa'
},
         symbol: '4321:TADAWUL',
         tickerSymbol: '4321',
         name: 'Cenomi Centers'
         sector: 'Real Estate Mgmt & Dev\'t',
         website: 'www.cenomicenters.com'
},
         symbol: '4322:TADAWUL',
         tickerSymbol: '4322',
         name: 'Retal',
         name_ar: 'رتاÙ\204',
         sector: 'Real Estate Mgmt & Dev\'t',
         website: 'www.retal.com.sa'
         symbol: '4323:TADAWUL',
         tickerSymbol: '4323',
         name: 'Sumou',
         name_ar: 'Ø3\\005\\210',
         sector: 'Real Estate Mgmt & Dev\'t',
         website: 'www.sumou.com.sa'
},
         symbol: '4230:TADAWUL',
         tickerSymbol: '4230',
         name: 'Red Sea',
         name_ar: \%$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}$\dot{v}
         sector: 'Real Estate Mgmt & Dev\'t',
         website: 'www.redsea.com.sa'
},
         symbol: '7200:TADAWUL',
         tickerSymbol: '7200',
         name: 'MIS',
         name_ar: 'Ø¥Ù\205 Ø¢Ù\212 Ø¥Ø3',
         sector: 'Software & Services',
         website: 'www.mis.com.sa'
         symbol: '7201:TADAWUL',
         tickerSymbol: '7201',
         name: 'Arab Sea',
         name_ar: 'اÙ\204Ø'Ø-ر اÙ\204عرØ''Ù\212', sector: 'Software & Services',
         website: 'www.arabsea.com.sa'
},
         symbol: '7202:TADAWUL',
         tickerSymbol: '7202',
         name: 'Solutions',
         name_ar: 'Ø-Ù\204Ù\210Ù\204',
         sector: 'Software & Services'
         website: 'www.solutions.com.sa'
},
         symbol: '7203:TADAWUL',
         tickerSymbol: '7203',
         name: 'ELM',
         name_ar: 'عÙ\204Ù\205',
         sector: 'Software & Services',
         website: 'www.elm.com.sa'
},
         symbol: '7204:TADAWUL',
         tickerSymbol: '7204',
         name: '2P',
         name_ar: 'تÙ\210 Ø"Ù\212',
         sector: 'Software & Services',
         website: 'www.2p.com.sa'
},
         symbol: '4165:TADAWUL',
```

```
tickerSymbol: '4165',
                                                      name: 'Almajed Oud',
                                                     name_ar: 'Ø$\u00fc\204\u00fc\205\u00fg\00000\u00fc\00000\u00fc\00000\u00fg\00000\u00fc\00000\u00fc\00000\u00fg\00000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u0000\u00
                                                      sector: 'Household & Personal Products',
                                                      website: 'www.almajedoud.com.sa'
                                },
                                                     symbol: '9406:TADAWUL',
                                                      tickerSymbol: '9406',
                                                      name: 'Albilad MSCI'
                                                     name_ar: 'ا\dot{v}\204\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}$\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot
                                                      sector: 'Index Funds',
                                                     website: 'www.albiladmsci.com'
                                },
                                                      symbol: '9402:TADAWUL',
                                                      tickerSymbol: '9402',
                                                     name: 'Alawwal MT30',
                                                      name_ar: 'ا\dot{v}\204\dot{v}\210\dot{v}\204 \dot{v}\205 \dot{v}\212 30',
                                                      sector: 'Index Funds',
                                                     website: 'www.alawwalmt30.com'
                                },
                                                      symbol: '9403:TADAWUL',
                                                      tickerSymbol: '9403',
                                                     name: 'Albilad Sukuk'
                                                      name_ar: 'ØŞÜ\204Ø"Ü\204ØŞØ ØμÜ\203Ü\210Ü\203',
                                                      sector: 'Index Funds',
                                                     website: 'www.albiladsukuk.com'
                                },
                                                      symbol: '4701:TADAWUL',
                                                      tickerSymbol: '4701',
                                                      name: 'ADITF',
                                                      name_ar: 'Ø£Ø-Ù\212ØaÙ\201',
                                                      sector: 'Index Funds',
                                                      website: 'www.aditf.com.sa'
                                                      symbol: '9400:TADAWUL',
                                                     tickerSymbol: '9400',
                                                     name: 'Yaqeen 30',
                                                     name_ar: \dot{v}\212\dot{v}\202\dot{v}\212\dot{v}\206\ 30',
                                                      sector: 'Index Funds',
                                                      website: 'www.yaqeen30.com'
                                },
                                                      symbol: '9401:TADAWUL',
                                                      tickerSymbol: '9401',
                                                      name: 'Yaqeen Petrochemical',
                                                     {\tt name\_ar: \ '\dot{v}\ 212\dot{v}\ 202\dot{v}\ 212\dot{v}\ 206\ \dot{v}\ 204\dot{v}\ 204\dot{v}\ 204\dot{v}\ 212\dot{v}\ 212\dot{v}\ 205\dot{\phi}\ \dot{v}\ 212\dot{v}\ 212\dot{\phi}\ 205\dot{\phi}\ \dot{v}\ 212\dot{\phi}\ 205\dot{\phi}\ \dot{v}\ 212\dot{\phi}\ 206\dot{\phi}\ \dot{v}\ 212\dot{\phi}\ 206\dot{\phi}\ \dot{v}\ 212\dot{\phi}\ 21
                                                      sector: 'Index Funds',
                                                      website: 'www.yaqeenpetrochemical.com'
                                },
                                                      symbol: '9404:TADAWUL',
                                                      tickerSymbol: '9404',
                                                      name: 'Alinma Sukuk',
                                                     name_ar: 'ØŞÜ\204Ø¥Ù\206Ü\205ØŞØ; ØμÜ\203Ü\210Ü\203',
                                                      sector: 'Index Funds',
                                                     website: 'www.alinmasukuk.com'
                                                      symbol: '9405:TADAWUL',
                                                      tickerSymbol: '9405',
                                                     name: 'Albilad Gold'.
                                                    name_ar: 'ØŞÜ\204Ø'Ü\204ØSد ذÜ\207Ø"', sector: 'Index Funds',
                                                      website: 'www.albiladgold.com'
                                },
                                                      symbol: '4700:TADAWUL',
                                                      tickerSymbol: '4700',
                                                     name: 'Alkhabeer Income',
                                                     name_ar: 'Ø$\u00fc\\204\00008\0009"\u00fc\\212\0009\u00fc\\204',
                                                      sector: 'Index Funds',
                                                      website: 'www.alkhabeerincome.com'
                                },
                                                      symbol: '9407: TADAWUL',
                                                      tickerSymbol: '9407'
                                                     name: 'Albilad US Tech'
                                                     name_ar: 'øşù\204ø"ù\204ø$ø" øşù\204ø*ù\203ù\206ù\210ù\210ø"ò\212ø$ øşù\204ø£ù\205ø±ù\212ù\203ù
\212Ø©'.
                                                      sector: 'Index Funds',
                                                      website: 'www.albiladustech.com'
```

```
/Users/abdulazizdot/Desktop/customer-s@aggert25aggefrt25appfconfig/market.ts
```

```
},
            {
                     symbol: '9408:TADAWUL',
                     tickerSymbol: '9408',
                     name: 'Albilad Saudi Growth'
                    {\tt name\_ar: '\emptyset\$\mathring{U} 204\emptyset"\mathring{U} 204\emptyset\$\emptyset^- \emptyset\$\mathring{U} 204\mathring{U} 206\mathring{U} 205\mathring{U} 210 \emptyset\$\mathring{U} 210\emptyset^-\mathring{U} 210\emptyset^-\mathring{U} 212', }
                     sector: 'Index Funds',
                     website: 'www.albiladsaudigrowth.com'
            },
                     symbol: '4702:TADAWUL',
                     tickerSymbol: '4702',
                    name: 'Alkhabeer Income 2030'.
                    name_ar: 'ا\dot{v}\204Ø8\ddot{v}\212Ø\pm Ø^-Ø8\dot{v}\204 2030', sector: 'Index Funds',
                     website: 'www.alkhabeerincome2030.com'
            },
                     symbol: '4703:TADAWUL',
                     tickerSymbol: '4703',
                    name: 'Sedco Multi Asset'
                     name_ar: 'Ø3Ø-Ü\203Ü\210 Ü\205ØaØ1Ø-Ø- ØSÜ\204Ø£ØμÜ\210Ü\204',
                     sector: 'Index Funds',
                     website: 'www.sedcomultiasset.com'
            },
                     symbol: '9410:TADAWUL',
                     tickerSymbol: '9410',
                     name: 'Albilad Hong Kong China',
                     sector: 'Index Funds',
                     website: 'www.albiladhongkongchina.com'
                     symbol: '9411:TADAWUL',
                    tickerSymbol: '9411',
                    name: 'SAB HK',
                    name_ar: /\emptyset^3\emptysetSØ" \dot{U}207\dot{U}210\dot{U}206\dot{U}203\dot{U}210\dot{U}206\dot{U}206\dot{U}200\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}206\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}200\dot{U}20
                     sector: 'Index Funds',
                     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(normalizedOuery)
        stock.name.toLowerCase().includes(normalizedQuery)
        stock.name_ar.includes(query)
        stock.sector.toLowerCase().includes(normalizedQuery) | |
        stock.website.toLowerCase().includes(normalizedQuery)
   );
export function getAllSymbols() {
   return SAUDI_SYMBOLS.map(stock => stock.symbol);
```

### /Users/abdulazizdot/Desktop/customer-suppaget-lagefn8/app/utils/marketAnalysis.ts

```
// utils/marketAnalysis.ts
import {
    CompanyAnalysis.
    Financial Metrics
    BalanceSheetMetrics,
    CashFlowMetrics,
    ValuationMetrics,
    SectorAnalysis,
    CompanyRisks,
    CompanyOpportunities
  } from '../types/marketAnalysis';
 export function getDefaultFinancialMetrics(): FinancialMetrics {
    return {
      revenue: 0,
      operatingIncome: 0,
     netIncome: 0,
      eps: 0,
     margins: {
       gross: 0,
       operating: 0,
       net: 0
      growth: {
        revenue: 0,
       profit: 0
   };
  }
 export function getDefaultBalanceSheet(): BalanceSheetMetrics {
    return {
     totalAssets: 0,
      totalLiabilities: 0,
     shareholdersEquity: 0,
     currentRatio: 0.
      debtToEquity: 0,
      workingCapital: 0
    };
  export function getDefaultCashFlow(): CashFlowMetrics {
    return {
     operatingCashFlow: 0,
      freeCashFlow: 0,
      capitalExpenditures: 0,
      cashFromOperations: 0
  export function calculateFinancialMetrics(incomeStatement: any[]): FinancialMetrics {
    if (!incomeStatement?.length) return getDefaultFinancialMetrics();
    const current = incomeStatement[0];
    const previous = incomeStatement[1];
    return {
      revenue: current.sales | | 0,
      operatingIncome: current.operating_income | | 0,
     netIncome: current.net_income || 0,
      eps: current.eps_basic | 0,
     margins: {
       gross: current.sales ? (current.gross_profit / current.sales) * 100 : 0,
        operating: current.sales ? (current.operating_income / current.sales) * 100 : 0,
       net: current.sales ? (current.net_income / current.sales) * 100 : 0
      growth: {
        revenue: previous?.sales ? ((current.sales - previous.sales) / previous.sales) * 100 : 0,
       profit: previous?.net_income ? ((current.net_income - previous.net_income) / previous.net_income) * 100
 : 0
    };
 export function calculateBalanceSheetMetrics(balanceSheet: any[]): BalanceSheetMetrics {
    if (!balanceSheet?.length) return getDefaultBalanceSheet();
    const current = balanceSheet[0]:
    const totalAssets = current.assets?.total_assets || 0;
    const totalLiabilities = current.liabilities?.total_liabilities || 0;
    const currentAssets = current.assets?.current_assets || 0;
    const currentLiabilities = current.liabilities?.current_liabilities | 0;
    return {
     totalAssets,
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-2agefn8/app/utils/marketAnalysis.ts

```
totalLiabilities,
      shareholdersEquity: totalAssets - totalLiabilities,
      currentRatio: currentLiabilities ? currentAssets / currentLiabilities : 0,
      debtToEquity: (totalAssets - totalLiabilities) ? totalLiabilities / (totalAssets - totalLiabilities) : 0,
      workingCapital: currentAssets - currentLiabilities
   };
  export function analyzeTrends(financials: any): { profitabilityTrend: string; marginTrend: string } {
    if (!financials?.incomeStatement?.income_statement?.length) {
       profitabilityTrend: 'Insufficient data',
       marginTrend: 'Insufficient data'
     };
   const statements = financials.incomeStatement.income_statement;
   const profitGrowth = statements.slice(0, -1).map((curr: any, i: number) => {
     const next = statements[i + 1];
      return next?.net_income ? ((curr.net_income - next.net_income) / next.net_income) * 100 : 0;
   }):
   const avgGrowth = profitGrowth.reduce((a: number, b: number) => a + b, 0) / profitGrowth.length;
     profitabilityTrend: avgGrowth > 5 ? 'Improving' : avgGrowth > 0 ? 'Stable' : 'Declining',
     marginTrend: analyzeProfitMargins(statements)
  function analyzeProfitMargins(statements: any[]): string {
   const margins = statements.map(s => s.net_income / s.sales * 100);
   const marginTrend = margins.slice(0, -1).map((curr, i) => curr - margins[i + 1]);
   const avgMarginChange = marginTrend.reduce((a, b) => a + b, 0) / marginTrend.length;
   return avgMarginChange > 1 ? 'Expanding margins'
           avgMarginChange > -1 ? 'Stable margins' : 'Contracting margins';
 export function calculateRisksAndOpportunities(analysis: CompanyAnalysis): { risks: CompanyRisks; opportuniti
es: CompanyOpportunities } {
   const risks: CompanyRisks = {
     financialRisks: [],
      operationalRisks: []
     marketRisks: []
   const opportunities: CompanyOpportunities = {
     growthOpportunities: [],
     marketOpportunities: [],
     competitiveAdvantages: []
   1:
    // Financial Risks
    if (analysis.financials.balanceSheet.debtToEquity > 2) {
      risks.financialRisks.push("High leverage ratio could impact financial flexibility");
   if (analysis.financials.balanceSheet.currentRatio < 1) {</pre>
     risks.financialRisks.push("Low current ratio indicates potential liquidity concerns");
   if (analysis.financials.cashFlow.freeCashFlow < 0) {</pre>
      risks.financialRisks.push("Negative free cash flow may indicate operational challenges");
    // Growth Opportunities
   if (analysis.financials.metrics.growth.revenue > 10) {
      opportunities.growthOpportunities.push("Strong revenue growth momentum");
    if (analysis.sectorAnalysis.peersComparison.profitabilityPercentile > 75) {
      opportunities.competitiveAdvantages.push("Superior profitability compared to peers");
   if (analysis.financials.metrics.margins.net > 20) {
      opportunities.competitiveAdvantages.push("Strong profit margins indicate competitive advantages");
   return { risks, opportunities };
  export function formatValue(value: number, type: 'currency' | 'percent' | 'ratio' = 'currency'): string {
   if (isNaN(value) | value === undefined) return 'N/A';
   switch (type) {
     case 'currency':
       return value >= 1e9
          ? '${ (value / 1e9) .toFixed(2) }B SAR'
          : value >= 1e6
```

# /Users/abdulazizdot/Desktop/customer-suppaget3agefnt8/app/utils/marketAnalysis.ts

```
? `${(value / 1e6).toFixed(2)}M SAR`
    : `${value.toFixed(2)} SAR`;
case 'percent':
    return `${value.toFixed(2)}%`;
case 'ratio':
    return value.toFixed(2);
default:
    return value.toFixed(2);
}
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-lagefintl/app/utils/format.ts

```
export const formatCurrency = (value: number | null | undefined, compact = false): string => {
 if (value === null || value === undefined) return 'N/A';
  try {
    if (compact) {
      if (Math.abs(value) >= 1e12) {
       return 'SAR ${ (value / 1e12) .toFixed(2) }T';
      if (Math.abs(value) >= 1e9) {
       return 'SAR ${ (value / 1e9) .toFixed(2) }B';
      if (Math.abs(value) >= 1e6) {
        return 'SAR ${ (value / 1e6) .toFixed(2) }M';
      if (Math.abs(value) >= 1e3) {
       return 'SAR ${ (value / 1e3) .toFixed(2) }K';
    }
    return new Intl.NumberFormat('en-US', {
      style: 'currency',
      currency: 'SAR'
      minimumFractionDigits: 2,
      maximumFractionDigits: 2
    }).format(value);
  } catch (error) {
    return 'SAR ${value.toFixed(2)}';
};
export const formatNumber = (value: number | null | undefined, decimals = 2): string => {
  if (value === null | | value === undefined) return 'N/A';
  // return value.toFixed(decimals);
export const formatPercent = (value: number | null | undefined, decimals = 2): string => {
  if (value === null || value === undefined) return 'N/A';
  return `${value.toFixed(decimals)}%';
export const formatCompactNumber = (value: number | null | undefined): string => {
  if (value === null | value === undefined) return 'N/A';
 if (Math.abs(value) >= 1e9) {
    return '${(value / 1e9).toFixed(2)}B';
  if (Math.abs(value) >= 1e6) {
   return `${ (value / 1e6) .toFixed(2) }M`;
 if (Math.abs(value) >= 1e3) {
   return `${(value / 1e3).toFixed(2))K';
  return value.toLocaleString();
export const formatChange = (value: number | null | undefined): string => {
  if (value === null | | value === undefined) return 'N/A';
  const sign = value >= 0 ? '+' : '';
 return \${sign}${value.toFixed(2)}%';
```

# /Users/abdulazizdot/Desktop/customer-suppaget-lagent2/app/hooks/useMarketSocket.ts

```
// hooks/useMarketSocket.ts
import { useEffect, useRef, useState } from 'react';
import { WS_URL, API_KEY } from '@/app/config/market';
export interface MarketQuoteData {
 symbol: string;
 name: string;
 price: number;
 change: number;
 percent_change: number;
 volume: number;
 high: number;
 low: number;
 open: number;
 close: number;
 timestamp: string;
interface WebSocketMessage {
 event: string;
 symbol: string;
 price: string;
 change: string;
 percent_change: string;
  volume: string;
 high: string;
 low: string;
 open: string;
 close: string;
 timestamp: string;
interface WebSocketSubscribeMessage {
 action: 'subscribe';
 params: {
   symbols: string:
 };
export function useMarketSocket(symbols: string[]) {
 const [quotes, setQuotes] = useState<Record<string, MarketQuoteData>>({});
 const [status, setStatus] = useState<'connecting' | 'connected' | 'disconnected'>('disconnected');
 const [error, setError] = useState<string | null>(null);
 const ws = useRef<WebSocket | null>(null);
 const reconnectTimeout = useRef<NodeJS.Timeout>();
 const connect = () => {
    try {
      setStatus('connecting');
      ws.current = new WebSocket('${WS_URL}?apikey=${API_KEY}');
      ws.current.onopen = () => {
        console.log('WebSocket Connected');
        setStatus('connected');
        setError(null);
        if (ws.current?.readyState === WebSocket.OPEN && symbols.length > 0) {
          const message: WebSocketSubscribeMessage = {
            action: 'subscribe',
            params: {
              symbols: symbols.join(',')
          ws.current.send(JSON.stringify(message));
      ws.current.onmessage = (event) => {
        try {
          const data: WebSocketMessage = JSON.parse(event.data);
          if (data.event === 'price') {
            setQuotes(prev => ({
               ..prev,
               [data.symbol]: {
                symbol: data.symbol.
                name: prev[data.symbol]?.name | | data.symbol,
                price: parseFloat(data.price) | 0,
                change: parseFloat (data.change) | 0,
                percent_change: parseFloat(data.percent_change) | 0,
                volume: parseInt(data.volume) || 0, high: parseFloat(data.high) || 0,
                low: parseFloat(data.low) || 0,
open: parseFloat(data.open) || 0,
                close: parseFloat (data.close) | 0,
                timestamp: data.timestamp
```

```
}));
        } catch (error) {
         console.error('Error parsing WebSocket message:', error);
      };
      ws.current.onclose = () => {
        console.log('WebSocket Disconnected');
        setStatus('disconnected');
        // Attempt to reconnect after 5 seconds
       reconnectTimeout.current = setTimeout(() => {
         connect();
        }, 5000);
      ws.current.onerror = (error) => {
        console.error('WebSocket error:', error);
        setError('WebSocket connection error');
        setStatus('disconnected');
     };
    } catch (error) {
      console.error('Error creating WebSocket:', error);
      setError('Failed to create WebSocket connection');
      setStatus('disconnected');
 };
 useEffect(() => {
    if (symbols.length > 0) {
     connect();
    return () => {
     if (ws.current) {
       ws.current.close();
      if (reconnectTimeout.current) {
       clearTimeout (reconnectTimeout.current);
   };
  }, [symbols]);
  // Resubscribe when symbols change and we're already connected
 useEffect(() => {
    if (ws.current?.readyState === WebSocket.OPEN && symbols.length > 0) {
      const message: WebSocketSubscribeMessage = {
        action: 'subscribe',
       params: {
         symbols: symbols.join(',')
       }
      };
      ws.current.send(JSON.stringify(message));
  }, [symbols]);
 return {
    quotes,
    status,
    error,
   isConnected: status === 'connected'
 } ;
// Helper function to format quote data for display
export function formatQuoteData(quote: MarketQuoteData) {
 return {
    symbol: quote.symbol,
    name: quote.name,
    price: quote.price.toFixed(2),
    change: quote.change.toFixed(2),
    percentChange: quote.percent_change.toFixed(2),
    volume: quote.volume.toLocaleString(),
    isPositive: quote.change >= 0,
    timestamp: new Date(quote.timestamp).toLocaleString()
 };
```

}

#### /Users/abdulazizdot/Desktop/customer-suppaget-lagefnt2/app/hooks/useStockData.ts

```
// app/hooks/useStockData.ts
import { useState, useEffect } from 'react';
import { API_KEY, API_URL, formatSymbol } from '@/app/config/market';
interface UseStockDataResult {
 data: StockData | null;
 loading: boolean;
 error: string | null;
export function useStockData(tickerSymbol: string): UseStockDataResult {
 const [data, setData] = useState<StockData | null>(null);
 const [loading, setLoading] = useState(true);
 const [error, setError] = useState<string | null>(null);
 useEffect(() => {
    const fetchStockData = async () => {
      if (!tickerSymbol) {
       setLoading(false);
       return:
      try {
        setLoading(true);
        const symbol = '${tickerSymbol}:TADAWUL';
        // Fetch all data in parallel
        const [statsRes, quoteRes, timeSeriesRes, profileRes] = await Promise.all([
          fetch('${API_URL}/statistics?symbol=${symbol}&apikey=${API_KEY}'),
          fetch('${API_URL}/quote?symbol=${symbol}&apikey=${API_KEY}'),
          fetch('${API_URL}/time_series?symbol=${symbol}&interval=1day&outputsize=90&apikey=${API_KEY}'),
          fetch('${API_URL}/profile?symbol=${symbol}&apikey=${API_KEY}')
        ]);
        // Check responses individually
        const responses = {
          stats: statsRes.ok,
          quote: quoteRes.ok,
          timeSeries: timeSeriesRes.ok,
          profile: profileRes.ok
        };
        console.log('API Response Status:', responses);
        // Get the JSON data, handling potential errors for each request
        const [statsData, quoteData, timeSeriesData, profileData] = await Promise.all([
          statsRes.json().catch(e => ({ statistics: {} })),
          quoteRes.json().catch(e => ({})),
          timeSeriesRes.json().catch(e => ({ values: [] })),
          profileRes.json().catch(e => null)
        1);
        // Log raw data for debugging
        console.log('Raw Profile Data:', profileData);
        const stockData: StockData = {
          quote: {
            symbol: symbol,
            name: quoteData.name | '',
            close: String(quoteData.close || quoteData.price || '0'),
change: String(quoteData.change || '0'),
            percent_change: String(quoteData.percent_change | '0'),
            high: String(quoteData.high | '0'),
            low: String(quoteData.low |
            open: String(quoteData.open | '0'),
            volume: String(quoteData.volume | '0')
          timeSeries: {
            values: timeSeriesData.values?.map((item: any) => ({
              datetime: item.datetime,
                                         ′0′),
              open: String(item.open
              high: String(item.high | '0'),
              low: String(item.low | |
                                        <sup>'</sup>0'),
              close: String(item.close | '0'),
              volume: String(item.volume || '0')
           })) || []
          statistics: statsData.statistics,
          profile: profileData ? {
            name: profileData.name | / ' ',
            exchange: profileData.exchange || 'TADAWUL',
            mic_code: profileData.mic_code //,
            sector: profileData.sector | '
            industry: profileData.industry | '',
            employees: profileData.employees || 0, website: profileData.website || '',
```

# /Users/abdulazizdot/Desktop/customer-suppaget2agefn12/app/hooks/useStockData.ts

```
description: profileData.description | '',
             type: profileData.type || 'Common Stock', CEO: profileData.CEO || '',
             address: profileData.address | | '', address2: profileData.address2 | | '',
             city: profileData.city || '',
zip: profileData.zip || '',
state: profileData.state || '',
country: profileData.country || '',
phone: profileData.phone || ''
          } : undefined
        };
       setData(stockData);
        setError(null);
     } catch (err) {
       console.error('Error fetching stock data:', err);
        setError(err instanceof Error ? err.message : 'Failed to load stock data');
       setData(null);
     } finally {
       setLoading(false);
  } ;
  fetchStockData();
  // Refresh data every minute
  const interval = setInterval(fetchStockData, 60000);
  return () => clearInterval(interval);
}, [tickerSymbol]);
return { data, loading, error };
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-lagefn6/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;
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('lday');
 const fetchSaudiMarketData = async () => {
   try {
      setLoading(true);
      // Fetch Saudi stocks list
      const stocksResponse = await fetch(
        "https://api.twelvedata.com/stocks?country=Saudi Arabia&apikey=${process.env.NEXT_PUBLIC_TWELVE_DATA_AP
I_KEY} '
     );
     if (!stocksResponse.ok) {
        throw new Error('Failed to fetch stocks list');
      const stocksData = await stocksResponse.json();
      const stocksList: SaudiStock[] = stocksData.data | stocksData;
      // Take first 20 stocks to avoid rate limits
      const stocksToFetch = stocksList.slice(0, 20);
      const symbols = stocksToFetch.map(stock => stock.symbol).join(',');
      // Fetch quotes for all stocks at once
     const quotesResponse = await fetch(
        "https://api.twelvedata.com/quote?symbol=${symbols}&apikey=${process.env.NEXT_PUBLIC_TWELVE_DATA_API_KE
Y } '
      if (!quotesResponse.ok) {
        throw new Error ('Failed to fetch quotes');
      const quotesData = await quotesResponse.json();
      let quotesArray: StockQuote[];
      if (Array.isArray(quotesData)) {
```

```
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
      };
    });
    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)
  );
```

```
// /app/lib/context/types.ts
// Base metadata interfaces
export interface FinancialMetrics {
 pe_ratio?: number;
 profit_margin?: number;
 revenue_growth?: number;
 dividend_yield?: number;
 market_cap?: number;
  volume?: number;
 [key: string]: number | undefined;
export interface TechnicalIndicators {
 rsi?: number;
 macd?: {
   value: number;
    signal: number;
   histogram: number;
 moving_averages?: {
    sma_50?: number;
    sma_200?: number;
    ema_20?: number;
 support_levels?: number[];
 resistance_levels?: number[];
// Enhanced company context
export interface CompanyContext {
  symbol: string;
 name: string;
 name ar?: string:
 sector?: string;
 lastMentioned: number;
 metadata: {
    recentTopics: string[];
    financialMetrics?: FinancialMetrics;
    technicalIndicators?: TechnicalIndicators;
    fundamentalFactors: string[];
    marketMetrics: {
      price: number;
      change: number;
      changePercent: number;
      volume: number;
      timestamp: number;
    };
    analysisContext: {
      mentionCount: number;
      sentiment: 'bullish' | 'bearish' | 'neutral';
      confidence: number;
    };
 };
// Enhanced market context
export interface MarketContext {
 currentMarketHours: boolean:
 marketConditions: 'bull' | 'bear'
volatilityLevel: 'low' | 'medium'
                                      'neutral';
 timestamp: number;
 majorIndices: {
    [key: string]: {
      value: number;
      change: number;
      changePercent: number;
      volume: number;
   };
  sectorPerformance: {
    [sector: string]: {
      change: number;
      volume: number;
      topMovers: Array<{</pre>
        symbol: string;
        change: number;
      }>;
   };
 marketBreadth: {
   advancers: number;
    decliners: number;
    unchanged: number;
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-2aqefnt3/app/lib/context/types.ts

```
totalVolume: number;
 };
// Enhanced message interface
export interface Message {
  id: string;
  role: 'user'
               'assistant';
  content: string;
  timestamp: number;
  metadata: {
    instruments: string[];
    companies: string[];
    markets: string[];
    metrics: string[];
    timeframes: string[];
    sentiment: 'bullish' | 'bearish' | 'neutral';
    confidence: number;
    riskLevel: 'low' | 'medium' | 'high';
    technicalIndicators: string[];
    fundamentalFactors: string[];
    analysisType: 'technical' | 'fundamental' | 'mixed' | 'general';
priority: 'critical' | 'high' | 'medium' | 'low';
    language?: 'en' | 'ar';
  };
 contextScore?: ContextScore;
// Enhanced conversation state
export interface ConversationState {
  id: string;
  currentCompany?: CompanyContext;
  recentCompanies: CompanyContext[];
  messageHistory: Array<Message>;
  analysisContext: {
    activeTechnicalAnalysis: boolean;
    fundamentalAnalysisActive: boolean;
    lastMarketUpdate: number;
    confidence: number;
    contextQuality: 'excellent' | 'good' | 'limited' | 'poor';
  };
  userPreferences: {
    preferredMarkets: string[];
    riskTolerance: 'conservative' | 'moderate' | 'aggressive';
preferredTimeframe: 'short' | 'medium' | 'long';
    technicalAnalysisLevel: 'basic' | 'intermediate' | 'advanced';
    language: 'en' | 'ar';
  marketContext?: MarketContext;
  lastActivity: number;
  conversationStart: number;
// Context window management
export interface ContextWindow {
 maxSize: number;
  currentSize: number;
  priorityThreshold: number;
  recentMessages: Message[];
  marketSnapshots: MarketContext[];
  kevInsights: Arrav<{
    content: string;
    timestamp: number;
   priority: 'critical' | 'high' | 'medium' | 'low';
category: 'market' | 'company' | 'sector' | 'general';
 } > ;
}
export interface ContextScore {
 messageId: string;
 marketRelevance: number;
  timeRelevance: number;
  instrumentRelevance: number;
  userPriorityScore: number;
  finalScore: number;
 timestamp: number;
}
export interface AnalysisResponse {
  companies: CompanyContext[];
  sectors: Set<string>;
  confidence: number;
  analysisTimestamp: number;
 marketSnapshot?: MarketContext;
```

# /Users/abdulazizdot/Desktop/customer-suppaget-3agefnt3/app/lib/context/types.ts

```
// Response schema for API
export interface ChatResponse {
  response: string;
  thinking: string;
  user_mood: 'positive' | 'neutral' | 'negative' | 'curious' | 'frustrated' | 'confused';
  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[];
    sectors: string[];
    economic_indicators: string[];
    analysis_type: 'technical' | 'fundamental' | 'mixed' | 'general';
    market_data: any | null;
    key_insights: string[];
  debug: {
    context_used: boolean;
    market_data_used: boolean;
    context_confidence: number;
    analysis_quality: string;
 } ;
```

```
// /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) {
```

# /Users/abdulazizdot/Desktop/customer-suppaget-3agefn5/app/lib/context/financeContextManager.ts

```
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';
interface CompanyMatch {
  symbol: string;
  name: string;
  sector?: string;
  isContinuedDiscussion: boolean;
  confidence: number;
interface MatchConfidence {
  symbolMatch: boolean;
  nameMatch: boolean;
  arabicMatch: boolean;
  partialMatch: boolean;
  contextualRelevance: boolean;
interface StockQuote {
  symbol: string;
  price: number;
  change: number;
  percentChange: number;
  volume: number;
  lastUpdated: string;
interface MarketData {
  [symbol: string]: {
    values: {
      close: number;
       open: number;
      high: number;
      low: number;
       volume: number;
       datetime: string:
    }[];
  };
}
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'
  1);
  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'
  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'
1):
private static calculateMatchConfidence(matches: {
  symbolMatch: boolean;
  nameMatch: boolean:
  arabicMatch: boolean;
  partialMatch: boolean;
  contextualRelevance: boolean;
}): number {
  let confidence = 0;
  if (matches.symbolMatch) confidence += 0.4;
  if (matches.nameMatch) confidence += 0.3;
  if (matches.arabicMatch) confidence += 0.3;
  if (matches.partialMatch) confidence += 0.2;
  if (matches.contextualRelevance) confidence += 0.1;
  // Normalize confidence to be between 0 and 1
  return Math.min(1, confidence);
public static analyzeFinancialContext(
 message: string,
  currentCompany?: CompanyContext
): {
  confidence: number;
  companies: Array<{
    symbol: string;
    name: string;
    sector?: string;
    isContinuedDiscussion: boolean;
    confidence: number;
  }>;
  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 with enhanced detection
  const companiesAnalysis = this.analyzeCompanyContext(text, currentCompany);
   ^{\prime}/ 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 enhanced company context
  const sentiment = companiesAnalysis.companies.length > 0
    ? this.analyzeSentimentWithContext(text, companiesAnalysis.companies[0])
    : this.determineSentiment(text);
  // Determine analysis type with enhanced logic
  const analysisType = this.determineAnalysisType(
    technical.length,
    fundamental.length,
    companiesAnalysis.discussionTopics
  ):
  // Calculate confidence with enhanced factors
  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,
    companyConfidence: companiesAnalysis.companies[0]?.confidence | 0 | 0
  }):
  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
): {
  companies: CompanyMatch[];
  hasExplicitMention: boolean;
  continuedDiscussion: boolean;
  discussionTopics: string[];
  const companies: CompanyMatch[] = [];
  const discussionTopics: string[] = [];
  let hasExplicitMention = false;
  let continuedDiscussion = false;
  // Safely convert text to lowercase
  const lowerText = (text | '').toLowerCase();
  // First check for explicit company mentions
  SAUDI_SYMBOLS.forEach(stock => {
    const matches: MatchConfidence = {
      symbolMatch: Boolean(stock.tickerSymbol && lowerText.includes(stock.tickerSymbol.toLowerCase())),
      nameMatch: Boolean(stock.name && lowerText.includes(stock.name.toLowerCase())),
      arabicMatch: Boolean(stock.name_ar && lowerText.includes(stock.name_ar.toLowerCase())),
      partialMatch: false,
      contextualRelevance: false
    // Check for partial matches if no exact match found
    if (!matches.symbolMatch && !matches.nameMatch && !matches.arabicMatch) {
      matches.partialMatch = this.checkPartialMatch(lowerText, stock);
    // Check contextual relevance
    matches.contextualRelevance = this.checkContextualRelevance(lowerText, stock);
    // Calculate confidence score
    const confidence = this.calculateMatchConfidence(matches);
    if (confidence > 0.3) { // Threshold for considering a match
      companies.push({
        symbol: stock.symbol,
        name: stock.name,
        sector: stock.sector,
        isContinuedDiscussion: false,
        confidence
      }):
      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 => lowerText.includes(term.toLowerCase()));
    if (hasRelatedTerms) {
      companies.push({
        symbol: currentCompany.symbol,
        name: currentCompany.name,
        sector: currentCompany.sector,
        isContinuedDiscussion: true,
        confidence: 0.4 // Default confidence for continued discussion
      });
      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 => lowerText.includes(term.toLowerCase()))
   );
  return {
    companies,
    hasExplicitMention,
    continuedDiscussion,
    discussionTopics: Array.from(new Set(discussionTopics))
  };
private static checkPartialMatch(text: string, stock: any): boolean {
  const words = text.split(/\s+/);
  const stockNameWords = stock.name?.toLowerCase().split(/\s+/) | [];
  return stockNameWords.some((word: string) =>
    word.length > 3 && words.some((textWord: string) =>
     textWord.includes(word) | word.includes(textWord)
 );
private static checkContextualRelevance(text: string, stock: anv): boolean {
  const sectorTerms = this.getSectorTerms(stock.sector);
  return sectorTerms.some((term: string) => text.includes(term.toLowerCase()));
private static getSectorTerms(sector?: string): string[] {
  // Add sector-specific terms mapping
  const sectorTermsMap: { [key: string]: string[] } = {
    'Technology': ['tech', 'software', 'digital', 'IT'],
    'Banking': ['bank', 'finance', 'loan', 'deposit'],
    // Add more sectors as needed
  };
  return sector ? (sectorTermsMap[sector] || []) : [];
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 Array.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' {
  const words = text.split(/\s+/);
  const companyIndex = words.findIndex(word =>
    word.includes(company.name.toLowerCase()) | |
    word.includes(company.symbol.toLowerCase())
  );
  if (companyIndex !== -1) {
    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;
  for (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;
  companyConfidence: number;
}): number {
  let confidence = 0.5; // Base confidence
  // Company context factors
  if (factors.hasExplicitCompany) confidence += 0.2;
  if (factors.isContinuedDiscussion) confidence += 0.1;
  confidence += factors.companyConfidence * 0.2;
  // 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>
```

# /Users/abdulazizdot/Desktop/customer-suppaget-6agefnt6/app/lib/context/financeAnalyzer.ts

```
// 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-lagefntl/app/lib/utils.ts

```
// lib/utils.ts
import { type ClassValue, clsx } from "clsx";
import { twMerge } from "tailwind-merge";
export function cn(...inputs: ClassValue[]) {
  return twMerge(clsx(inputs));
export function formatNumber(
  value: number | undefined | null,
  currency?: string,
  compact = false
): string {
  if (value === undefined || value === null || isNaN(value)) {
   return "N/A";
  try {
   if (currency === "%") {
     return '${value.toFixed(2)}%';
    if (compact) {
     const units = ["", "K", "M", "B", "T"];
      let unitIndex = 0;
      let scaledValue = value;
      while (scaledValue >= 1000 && unitIndex < units.length - 1) {</pre>
       scaledValue /= 1000;
        unitIndex += 1;
      return `${currency ? currency + " " : ""}${scaledValue.toFixed(1)}${units[unitIndex]}`;
    if (currency) {
      return `${currency} ${value.toLocaleString(undefined, {
        minimumFractionDigits: 2,
        maximumFractionDigits: 2,
      })}';
    return value.toLocaleString(undefined, {
     minimumFractionDigits: 2,
      maximumFractionDigits: 2,
    });
  } catch (error) {
    // Fallback formatting if Intl is not available
    return `${currency ? currency + " " : ""}${value.toFixed(2)}`;
```

# /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 [];
```

```
// File: /app/lib/errors.ts
export type ErrorSeverity = 'critical' | 'error' | 'warning' | 'info';
export class MarketDataError extends Error {
 constructor(
   public code: string,
   message: string,
   public severity: ErrorSeverity = 'error',
   public metadata: Record<string, any> = {}
   super (message);
   this.name = 'MarketDataError';
 }
export class APIError extends Error {
 constructor(
   public code: string,
   message: string,
   public severity: ErrorSeverity = 'error',
   public metadata: Record<string, any> = {}
   super (message);
   this.name = 'APIError';
}
export class ValidationError extends Error {
 constructor(
   public code: string,
   message: string,
   public severity: ErrorSeverity = 'error',
   public metadata: Record<string, any> = {}
   super (message);
   this.name = 'ValidationError';
}
// Helper function to determine if an error is a specific type
export function isMarketDataError(error: unknown): error is MarketDataError {
 return error instanceof MarketDataError;
// Helper function to create a user-friendly error message
export function createUserFriendlyError(error: unknown): string {
  if (error instanceof MarketDataError) {
   switch (error.code) {
     case 'API_ERROR':
       return 'Unable to fetch market data at the moment. Please try again later.';
      case 'VALIDATION_ERROR':
        return 'Invalid input provided. Please check your request and try again.';
      case 'RATE_LIMIT':
       return 'Too many requests. Please wait a moment before trying again.';
      default:
       return 'An unexpected error occurred. Please try again.';
 if (error instanceof Error) {
   return error.message;
 return 'An unknown error occurred. Please try again.';
// Error codes
export const ERROR_CODES = {
 API_ERROR: 'API_ERROR',
 VALIDATION_ERROR: 'VALIDATION_ERROR',
 RATE_LIMIT: 'RATE_LIMIT',
 DATA_NOT_FOUND: 'DATA_NOT_FOUND',
 INVALID_SYMBOL: 'INVALID_SYMBOL',
 NETWORK_ERROR: 'NETWORK_ERROR',
 PARSE_ERROR: 'PARSE_ERROR'
} as const;
// Helper function to handle API errors
export function handleAPIError(error: unknown): MarketDataError {
 if (error instanceof MarketDataError) {
   return error;
 if (error instanceof Error) {
    // Handle rate limit errors
```

# /Users/abdulazizdot/Desktop/customer-suppaget-2agefn2/app/lib/errors/errors.ts

```
if (error.message.includes('API credits') || error.message.includes('rate limit')) {
    return new MarketDataError(
      ERROR_CODES.RATE_LIMIT,
      'API rate limit exceeded. Please try again later.',
      'error',
      { originalError: error }
    );
  // Handle network errors
  if (error.message.includes('network') || error.message.includes('fetch')) {
    return new MarketDataError(
     ERROR_CODES.NETWORK_ERROR,
      ^\primeNetwork error occurred. Please check your connection.^\prime,
      'error',
      { originalError: error }
    );
  // Handle parse errors
  if (error.message.includes('JSON') | error.message.includes('parse')) {
    return new MarketDataError(
     ERROR_CODES.PARSE_ERROR,
      'Error processing market data.',
      'error',
      { originalError: error }
    );
  }
// Generic error
return new MarketDataError(
  ERROR_CODES.API_ERROR,
  'An unexpected error occurred.',
  'error',
  { originalError: error }
);
```

# /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;
```

```
import { API_KEY, API_URL, SAUDI_SYMBOLS } from '@/app/config/market';
interface FundamentalData {
 symbol: string;
 name: string;
 sector: string;
 valuation metrics: {
   market_capitalization?: number;
    enterprise_value?: number;
    trailing_pe?: number;
    forward_pe?: number;
    peg_ratio?: number;
    price_to_sales_ttm?: number;
    price_to_book_mrq?: number;
    enterprise_to_revenue?: number;
    enterprise_to_ebitda?: number;
  };
 financials: {
    gross_margin?: number;
    profit_margin?: number;
    operating_margin?: number;
    return_on_assets_ttm?: number;
    return_on_equity_ttm?: number;
    income_statement?: {
      revenue_ttm?: number;
      revenue_per_share_ttm?: number;
      quarterly_revenue_growth?: number;
      gross_profit_ttm?: number;
      ebitda?: number;
      net_income_to_common_ttm?: number;
      diluted eps ttm?: number;
      quarterly_earnings_growth_yoy?: number;
    };
    balance_sheet?: {
      total_cash_mrq?: number;
      total_cash_per_share_mrq?: number;
      total_debt_mrq?: number;
      total_debt_to_equity_mrq?: number;
      current_ratio_mrq?: number;
     book_value_per_share_mrq?: number;
    };
    cash flow?: {
      operating_cash_flow_ttm?: number;
      levered_free_cash_flow_ttm?: number;
    };
  dividends?: {
    forward_annual_dividend_rate?: number;
    forward_annual_dividend_yield?: number;
    trailing_annual_dividend_rate?: number;
    trailing_annual_dividend_yield?: number;
    five_year_average_dividend_yield?: number;
    payout_ratio?: number;
    dividend_date?: string;
    ex_dividend_date?: string;
 };
 stock_statistics?: {
    shares_outstanding?: number;
    float_shares?: number;
    avq_volume_10d?: number;
    avg_volume_90d?: number;
    short_ratio?: number;
    percent_held_by_insiders?: number;
   percent_held_by_institutions?: number;
 };
interface BalanceSheetResponse {
 meta: {
    symbol: string:
    name: string;
    currency: string;
    exchange: string;
    mic_code: string;
    exchange_timezone: string;
    period: string;
 balance_sheet: Array<{
    fiscal_date: string;
    assets: {
      current_assets: {
        cash: number;
        cash_equivalents: number;
        cash_and_cash_equivalents: number;
        other_short_term_investments: number;
        accounts_receivable: number;
```

```
other_receivables: number;
        inventory: number;
        prepaid_assets: number | null;
        restricted_cash: number | null;
        assets_held_for_sale: number | null;
        hedging_assets: number | null;
        other_current_assets: number;
        total_current_assets: number;
      };
      non_current_assets: {
       properties: number;
        land and improvements: number;
        machinery_furniture_equipment: number;
        construction_in_progress: number | null;
        leases: number;
        accumulated_depreciation: number;
        goodwill: number | null;
        investment_properties: number | null;
        financial_assets: number | null;
        intangible_assets: number | null;
        investments_and_advances: number;
        other_non_current_assets: number;
        total_non_current_assets: number;
      total_assets: number;
    };
    liabilities: {
      current_liabilities: {
        accounts_payable: number;
        accrued_expenses: number | null;
        short_term_debt: number;
        deferred_revenue: number;
        tax_payable: number | null;
        pensions: number | null;
        other_current_liabilities: number;
       total_current_liabilities: number;
      }:
      non_current_liabilities: {
        long_term_provisions: number | null;
        long_term_debt: number;
        provision_for_risks_and_charges: number;
        deferred_liabilities: number | null;
        derivative_product_liabilities: number | null;
        other_non_current_liabilities: number;
        total_non_current_liabilities: number;
      };
      total_liabilities: number;
    shareholders_equity: {
      common_stock: number;
      retained_earnings: number;
      other_shareholders_equity: number;
      total_shareholders_equity: number;
      additional_paid_in_capital: number | null;
      treasury_stock: number | null;
     minority_interest: number | null;
    };
 }>;
interface CashFlowResponse {
 meta: {
    symbol: string;
    name: string;
    currency: string;
    exchange: string;
    mic_code: string;
    exchange_timezone: string;
   period: string;
 cash_flow: Array<{</pre>
    fiscal_date: string;
    quarter?: number;
    operating_activities: {
      net income: number:
      depreciation: number;
      deferred_taxes: number;
      stock_based_compensation: number;
      other_non_cash_items: number;
      accounts_receivable: number;
      accounts_payable: number;
      other_assets_liabilities: number;
      operating_cash_flow: number;
    investing_activities: {
      capital_expenditures: number;
```

```
net_intangibles: number | null;
      net_acquisitions: number | null;
      purchase of investments: number;
      sale_of_investments: number;
      other_investing_activity: number;
     investing_cash_flow: number;
    };
    financing_activities: {
      long_term_debt_issuance: number | null;
      long_term_debt_payments: number;
      short_term_debt_issuance: number;
      common_stock_issuance: number | null;
      common_stock_repurchase: number;
      common_dividends: number;
      other_financing_charges: number;
      financing_cash_flow: number;
    };
    end_cash_position: number;
    income_tax_paid: number;
    interest_paid: number;
    free_cash_flow: number;
 } > ;
interface IncomeStatementResponse {
 meta: {
    symbol: string;
    name: string;
    currency: string;
    exchange: string;
   mic_code: string;
    exchange_timezone: string;
   period: string;
 income statement: Arrav<{
    fiscal_date: string;
    quarter?: number;
    year?: number;
    sales: number;
    cost_of_goods: number;
    gross_profit: number;
    operating_expense: {
      research_and_development: number;
      selling_general_and_administrative: number;
      other_operating_expenses: number | null;
    operating_income: number;
    non_operating_interest: {
     income: number:
      expense: number;
    other_income_expense: number;
    pretax income: number:
    income tax: number:
    net_income: number;
    eps_basic: number;
    eps_diluted: number;
    basic_shares_outstanding: number;
    diluted shares outstanding: number:
    ebitda: number;
    net_income_continuous_operations: number | null;
    minority_interests: number | null;
    preferred_stock_dividends: number | null;
 }>;
// app/lib/services/saudiFundamentals.ts
export class SaudiFundamentals {
 private static readonly CACHE_DURATION = 300000; // 5 minutes
 private static cache: Map<string, { data: any; timestamp: number }> = new Map();
 static async getFundamental(symbol: string): Promise<any> {
    try {
      const stockInfo = SAUDI_SYMBOLS.find(s => s.symbol === symbol);
      if (!stockInfo) return null;
      const formattedSymbol = `${stockInfo.tickerSymbol}:TADAWUL`;
      // First try to get from cache
      const cacheKey = 'fundamentals_${formattedSymbol}';
      const cached = this.getFromCache(cacheKey);
      if (cached) return cached;
```

```
// Fetch fundamental data with retry logic
    const data = await this.fetchFundamentalData(formattedSymbol);
    if (!data) return null;
    // Format and cache the response
    const fundamentals = this.formatFundamentalData(data, stockInfo);
    this.addToCache(cacheKey, fundamentals);
    return fundamentals;
  } catch (error)
    console.error('Error fetching fundamental data for ${symbol}:', error);
    return null;
}
private static async fetchFundamentalData(symbol: string, retries = 2): Promise<any> {
  try {
    const url = '${API_URL}/statistics?symbol=${symbol}&apikey=${API_KEY}';
    console.log('Fetching fundamentals for:', symbol);
   const response = await fetch(url);
   const data = await response.json();
    // Check for valid data structure
    if (!data || data.status === 'error' || !data.statistics) {
     throw new Error ('Invalid data structure received');
    return data;
  } catch (error) {
    if (retries > 0) {
      console.log('Retrying fundamental data fetch for ${symbol}, attempts left: ${retries}');
      await new Promise(resolve => setTimeout(resolve, 1000));
     return this.fetchFundamentalData(symbol, retries - 1);
    throw error:
static async getSectorAverages(sector: string): Promise<any> {
  try {
    // Get all stocks in the sector
    const sectorStocks = SAUDI_SYMBOLS.filter(stock => stock.sector === sector);
   if (!sectorStocks.length) return {};
    // Get fundamentals with basic error handling for each stock
    const fundamentalsPromises = sectorStocks.map(stock =>
      this.getFundamental(stock.symbol)
       .catch(error => {
         console.warn('Error fetching fundamentals for ${stock.symbol}:', error);
         return null:
        })
    const results = await Promise.all(fundamentalsPromises);
    const validResults = results.filter(result => result !== null);
    if (validResults.length === 0) {
     console.warn('No valid fundamental data found for sector: ${sector}');
     return this.getDefaultSectorMetrics();
    return this.calculateSectorAverages(validResults);
  } catch (error) {
    console.error(`Error calculating sector averages for ${sector}:', error);
    return this.getDefaultSectorMetrics();
private static formatFundamentalData(data: any, stockInfo: any) {
  const stats = data.statistics || {};
   symbol: stockInfo.symbol,
   name: stockInfo.name,
   sector: stockInfo.sector,
   metrics: {
       market_cap: this.safeNumber(stats.market_capitalization),
       pe_ratio: this.safeNumber(stats.trailing_pe),
       price_to_book: this.safeNumber(stats.price_to_book_mrq),
        ev_to_ebitda: this.safeNumber(stats.enterprise_to_ebitda)
      profitability: {
        gross_margin: this.safeNumber(stats.gross_margin),
        operating_margin: this.safeNumber(stats.operating_margin),
```

```
net_margin: this.safeNumber(stats.profit_margin),
        roe: this.safeNumber(stats.return_on_equity_ttm),
        roa: this.safeNumber(stats.return_on_assets_ttm)
      1.
      growth: {
       revenue_growth: this.safeNumber(stats.quarterly_revenue_growth),
       earnings_growth: this.safeNumber(stats.quarterly_earnings_growth)
    - }
 };
private static getDefaultSectorMetrics() {
 return {
    averages: {
     pe_ratio: null,
     market_cap: null,
     price_to_book: null,
     operating_margin: null,
     net_margin: null,
     roe: null
    1.
    status: 'limited_data'
private static safeNumber(value: any): number | null {
 if (value === null | value === undefined) return null;
  const num = Number(value);
 return isNaN(num) ? null : num;
private static getFromCache(key: string): any {
  const cached = this.cache.get(key);
  if (!cached) return null;
  const now = Date.now();
  if (now - cached.timestamp > this.CACHE_DURATION) {
   this.cache.delete(key);
   return null;
  return cached.data;
private static addToCache(key: string, data: any): void {
  this.cache.set(key, {
   data,
    timestamp: Date.now()
 });
private static calculateSectorAverages(results: any[]): any {
 const metrics = [
    'pe_ratio', 'market_cap', 'price_to_book',
    operating_margin', 'net_margin', 'roe'
  const sums = {};
  const counts = {};
  results.forEach(result => {
   if (!result?.metrics) return;
    metrics.forEach(metric => {
     const value = this.getMetricValue(result.metrics, metric);
     if (value !== null) {
       sums[metric] = (sums[metric] || 0) + value;
        counts[metric] = (counts[metric] | | 0) + 1;
      - }-
   });
  });
  const averages = {};
  metrics.forEach(metric => {
   averages[metric] = counts[metric] ? sums[metric] / counts[metric] : null;
  });
  return {
   averages,
status: 'success',
    sample_size: results.length
  };
private static getMetricValue(metrics: any, metric: string): number | null {
```

## /Users/abdulazizdot/Desktop/customer-suppaget-6agefnt6/app/lib/services/saudiFundamentals.ts

```
const paths = {
   pe_ratio: ['valuation', 'pe_ratio'],
   market_cap: ['valuation', 'market_cap'],
   price_to_book: ['valuation', 'price_to_book'],
   operating_margin: ['profitability', 'operating_margin'],
   net_margin: ['profitability', 'net_margin'],
   roe: ['profitability', 'roe']
};

const path = paths[metric];
   if (!path) return null;

let value = metrics;
   for (const key of path) {
     value = value?.[key];
     if (value === undefined || value === null) return null;
}

return this.safeNumber(value);
}
```

```
// File: /app/lib/services/marketData.ts
import { API_KEY, API_URL, formatSymbol } from '@/app/config/market';
import { MarketDataError } from '@/app/lib/errors/errors';
import { MarketQuote, MarketResponse } from '@/app/types/market';
interface CacheItem<T> {
 data: T:
 timestamp: number;
export class MarketDataService {
 private static readonly CACHE_DURATION = 10000; // 10 seconds
 private static readonly REQUEST_TIMEOUT = 5000; // 5 seconds
 private static cache = new Map<string, CacheItem<MarketQuote>>();
 static async fetchQuote(symbol: string): Promise<MarketQuote> {
   try {
     // Check cache first
      const cachedData = this.getFromCache(symbol);
     if (cachedData) {
       return cachedData;
      const formattedSymbol = formatSymbol(symbol);
     const data = await this.fetchWithTimeout(
        `${API_URL}/quote?symbol=${formattedSymbol}&apikey=${API_KEY}`
      if (!this.isValidQuoteResponse(data)) {
       throw new MarketDataError(
          'INVALID DATA'
          'Invalid quote data received',
         'error',
          { symbol, response: data }
       );
      const quote = this.transformQuoteData(data);
     this.addToCache(symbol, quote);
     return quote;
    } catch (error) {
      if (error instanceof MarketDataError) {
       throw error;
     throw new MarketDataError(
       'FETCH_ERROR',
        'Failed to fetch quote for ${symbol}',
        'error'
        { symbol, error }
     );
 private static async fetchWithTimeout(url: string): Promise<MarketResponse> {
   const controller = new AbortController();
   const timeoutId = setTimeout(() => controller.abort(), this.REQUEST_TIMEOUT);
   trv {
     const response = await fetch(url, {
       signal: controller.signal,
       headers: {
          'Cache-Control': 'no-cache',
          'Pragma': 'no-cache'
     });
      if (!response.ok) {
        throw new MarketDataError(
          'API ERROR'
          'HTTP error! status: ${response.status}',
          'error',
          { status: response.status }
       );
      return await response.json();
   } finally {
      clearTimeout(timeoutId);
 private static isValidQuoteResponse (data: any): data is MarketResponse {
   return (
     data &&
```

## /Users/abdulazizdot/Desktop/customer-suppaget2agefn2/app/lib/services/marketData.ts

```
typeof data === 'object' &&
    typeof data.symbol === 'string' &&
    (typeof data.price === 'string'
     typeof data.price === 'string' || typeof data.price === 'number' ||
typeof data.close === 'string' || typeof data.close === 'number')
private static transformQuoteData(data: MarketResponse): MarketQuote {
  return {
    symbol: data.symbol,
    price: this.parseNumber(data.price | data.close),
    change: this.parseNumber(data.change),
    percentChange: this.parseNumber(data.percent_change),
    volume: this.parseNumber(data.volume),
    timestamp: new Date().toISOString(),
    high: this.parseNumber(data.high),
    low: this.parseNumber(data.low),
    open: this.parseNumber(data.open)
  };
private static parseNumber(value: string | number | undefined): number {
  if (typeof value === 'number') return value;
  if (typeof value === 'string') return parseFloat(value) || 0;
  return 0;
private static getFromCache(symbol: string): MarketQuote | null {
  const cached = this.cache.get(symbol);
  if (!cached) return null;
  const age = Date.now() - cached.timestamp;
  if (age > this.CACHE_DURATION) {
   this.cache.delete(symbol);
    return null;
  return cached.data;
private static addToCache(symbol: string, data: MarketQuote): void {
  this.cache.set(symbol, {
    data,
    timestamp: Date.now()
  });
```

}

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

```
// app/api/chat/route.ts
import { Anthropic } from "@anthropic-ai/sdk";
import { API_URL, API_KEY, SAUDI_SYMBOLS } from "@/app/config/market";
const anthropic = new Anthropic({
  apiKey: process.env.ANTHROPIC_API_KEY!,
});
function buildPromptWithMarketData(message: string, quoteData: any, statsData: any): string {
  // Safe extraction with default values
  const stats = statsData?.statistics | { };
  const valuationMetrics = stats?.valuations metrics | | {};
  const financials = stats?.financials | {};
  const incomeStatement = financials?.income_statement | {};
  const balanceSheet = financials?.balance_sheet | { };
  const cashFlow = financials?.cash_flow | { };
  const stockStats = stats?.stock_statistics | |
  const stockPrice = stats?.stock_price_summary || {};
  const dividends = stats?.dividends_and_splits | | {};
  // Safe number formatting function
 const formatNumber = (value: any, isPercentage = false): string => {
  if (value === null || value === undefined) return 'N/A';
    const num = Number(value);
    if (isNaN(num)) return 'N/A';
   return isPercentage ? '${num.toFixed(2)}%' : num.toFixed(2);
  };
  // Safe billion formatter
  const formatBillions = (value: any): string => {
  if (value === null | | value === undefined) return 'N/A';
    const num = Number(value);
    if (isNaN(num)) return 'N/A';
   return `${ (num / 1e9) .toFixed(2) } billion`;
  return 'You are an expert Saudi market financial analyst. Analyze this comprehensive market data:
MARKET PERFORMANCE:
Current Price: SAR ${quoteData?.close | | quoteData?.price | | 'N/A'}
Daily Change: ${quoteData?.change | | 'N/A'} (${quoteData?.percent_change | | 'N/A'}%)
Trading Volume: ${quoteData?.volume | | 'N/A'}
Market Cap: SAR ${formatBillions(valuationMetrics?.market_capitalization)}
FINANCIAL METRICS:
1. Revenue & Profitability
a\200¢ Revenue (TTM): SAR ${formatBillions(incomeStatement?.revenue_ttm)}
â\200¢ EBITDA: SAR ${formatBillions(incomeStatement?.ebitda)}
a\200¢ Net Income: SAR ${formatBillions(incomeStatement?.net income to common ttm)}
â\200¢ EPS (Diluted): SAR ${formatNumber(incomeStatement?.diluted_eps_ttm)}
â\200¢ Revenue per Share: SAR ${formatNumber(incomeStatement?.revenue_per_share_ttm)}
2. Margins & Profitability
â\200¢ Gross Margin: ${formatNumber(financials?.gross_margin ? financials.gross_margin * 100 : null, true)}
a\200¢ Operating Margin: ${formatNumber(financials?.operating_margin ? financials.operating_margin * 100 : null
true) }
â\200¢ Profit Margin: ${formatNumber(financials?.profit_margin ? financials.profit_margin * 100 : null, true)}
3. Growth Metrics
a\200¢ Quarterly Revenue Growth: ${formatNumber(incomeStatement?.quarterly_revenue_growth ? incomeStatement.qua
rterly_revenue_growth * 100 : null, true)}
a\200¢ Quarterly Earnings Growth: ${formatNumber(incomeStatement?.quarterly_earnings_growth_yoy ? incomeStateme
nt.quarterly_earnings_growth_yoy * 100 : null, true) }
4. Balance Sheet Position
a\200¢ Total Cash: SAR ${formatBillions(balanceSheet?.total cash mrg)}
â\200¢ Total Debt: SAR ${formatBillions(balanceSheet?.total_debt_mrq)}
â\200¢ Current Ratio: ${formatNumber(balanceSheet?.current_ratio_mrq)}
â\200¢ Debt/Equity: ${formatNumber(balanceSheet?.total_debt_to_equity_mrq)}
â\200¢ Book Value per Share: SAR ${formatNumber(balanceSheet?.book_value_per_share_mrq)}
5. Cash Flow Analysis
â\200¢ Operating Cash Flow: SAR ${formatBillions(cashFlow?.operating_cash_flow_ttm)}
â\200¢ Free Cash Flow: SAR ${formatBillions(cashFlow?.levered_free_cash_flow_ttm)}
VALUATION METRICS:
â\200¢ P/E Ratio (TTM): ${formatNumber(valuationMetrics?.trailing_pe)}x
a\200¢ Forward P/E: ${formatNumber(valuationMetrics?.forward pe)}x
â\200¢ P/B Ratio: ${formatNumber(valuationMetrics?.price_to_book_mrq)}x
a\200¢ EV/EBITDA: ${formatNumber(valuationMetrics?.enterprise_to_ebitda)}x
a\200¢ Price/Sales: ${formatNumber(valuationMetrics?.price_to_sales_ttm)}x
RETURNS & EFFICIENCY:
a\200¢ Return on Equity: ${formatNumber(financials?.return_on_equity_ttm ? financials.return_on_equity_ttm * 10
0 : null, true)}
â\200¢ Return on Assets: ${formatNumber(financials?.return_on_assets_ttm ? financials.return_on_assets_ttm * 10
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-2agefnt4/app/api/chat/route.ts

```
0 : null, true) }
MARKET STATISTICS:
â\200¢ 52-Week Range: SAR ${stockPrice?.fifty_two_week_low | | 'N/A'} - ${stockPrice?.fifty_two_week_high | | 'N/A'}
A' }
â\200¢ 52-Week Change: ${formatNumber(stockPrice?.fifty_two_week_change, true)}
â\200¢ Beta: ${formatNumber(stockPrice?.beta)}
a\200¢ 50-Day MA: SAR ${formatNumber(stockPrice?.day 50 ma)}
â\200¢ 200-Day MA: SAR ${formatNumber(stockPrice?.day_200_ma)}
DIVIDEND INFORMATION:
a\200¢ Forward Dividend Rate: SAR ${formatNumber(dividends?.forward_annual_dividend_rate)}
â\200¢ Forward Dividend Yield: ${formatNumber(dividends?.forward_annual_dividend_yield ? dividends.forward_annu
al_dividend_yield * 100 : null, true) }
â\200¢ Trailing Dividend Rate: SAR ${formatNumber(dividends?.trailing_annual_dividend_rate)}
â\200¢ Payout Ratio: ${formatNumber(dividends?.payout_ratio ? dividends.payout_ratio * 100 : null, true)}
OWNERSHIP STRUCTURE:
â\200¢ Shares Outstanding: ${formatBillions(stockStats?.shares_outstanding)}
â\200¢ Float Shares: ${formatBillions(stockStats?.float_shares)}
a\200¢ Institutional Ownership: ${formatNumber(stockStats?.percent_held_by_institutions ? stockStats.percent_he
ld_by_institutions * 100 : null, true)}
â\200¢ Insider Ownership: ${formatNumber(stockStats?.percent_held_by_insiders ? stockStats.percent_held_by_insi
ders * 100 : null, true) }
User Ouestion: ${message}
Based on the available data, please provide a detailed analysis including:
1. Financial Health Assessment
   - Current profitability and efficiency metrics
   - Balance sheet strength and liquidity
   - Cash flow generation and quality
   - Operating performance trends
2. Valuation Analysis
   - Current valuation metrics assessment
   - Fair value considerations
   - Dividend analysis (if applicable)
   - Risk-reward profile
3. Market Position
   - Competitive position analysis
   - Growth trajectory
   - Market performance assessment
   - Industry context
4. Technical Analysis
   - Price trend analysis
   - Moving averages assessment
   - Volume analysis
   - Market momentum
5. Investment Recommendation
   - Clear Buy/Hold/Sell guidance
   - Target price consideration
   - Investment timeframe
   - Key risks and monitoring points
Please focus on the available metrics while acknowledging any data limitations in your analysis.';
function analyzeSentiment(text: string): 'bullish' | 'bearish' | 'neutral' {
 const bullishWords = ['growth', 'increase', 'positive', 'improve', 'strong', 'buy', 'upside'];
const bearishWords = ['decline', 'decrease', 'negative', 'weak', 'sell', 'risk', 'concern'];
  const lowerText = text.toLowerCase();
  let bullishCount = 0;
  let bearishCount = 0:
  bullishWords.forEach(word => {
    if (lowerText.includes(word)) bullishCount++;
  bearishWords.forEach(word => {
    if (lowerText.includes(word)) bearishCount++;
  if (bullishCount > bearishCount) return 'bullish';
  if (bearishCount > bullishCount) return 'bearish';
  return 'neutral';
function analyzeRiskLevel(text: string): 'low' | 'medium' | 'high' {
 const highRiskWords = ['volatile', 'risky', 'uncertain', 'concern', 'warni
const lowRiskWords = ['stable', 'solid', 'safe', 'defensive', 'reliable'];
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-3agefnt4/app/api/chat/route.ts

```
const lowerText = text.toLowerCase();
  let highRiskCount = 0;
 let lowRiskCount = 0:
 highRiskWords.forEach(word => {
   if (lowerText.includes(word)) highRiskCount++;
  });
 lowRiskWords.forEach(word => {
   if (lowerText.includes(word)) lowRiskCount++;
 if (highRiskCount > lowRiskCount) return 'high';
 if (lowRiskCount > highRiskCount) return 'low';
  return 'medium';
function extractTechnicalIndicators(stats: any): string[] {
 const indicators = [];
  if (stats.stock_price_summary) {
   if (stats.stock_price_summary.day_50_ma) indicators.push('50-Day Moving Average');
   if (stats.stock_price_summary.day_200_ma) indicators.push('200-Day Moving Average');
   if (stats.stock_price_summary.beta) indicators.push('Beta');
  return indicators;
function extractFundamentalFactors(stats: anv): string[] {
 const factors = [];
  if (stats.valuations_metrics) {
   if (stats.valuations_metrics.trailing_pe) factors.push('P/E Ratio');
   if (stats.valuations_metrics.price_to_book_mrq) factors.push('Price to Book');
   \verb|if (stats.valuations_metrics.enterprise_to_ebitda)| factors.push('EV/EBITDA');\\
  if (stats.financials) {
   if (stats.financials.operating_margin) factors.push('Operating Margin');
   if (stats.financials.return_on_equity_ttm) factors.push('ROE');
  return factors;
function extractCompanySymbol(message: string): string | null {
 const lowerMessage = message.toLowerCase();
 for (const stock of SAUDI_SYMBOLS) {
   if (
      lowerMessage.includes(stock.name.toLowerCase()) | |
      lowerMessage.includes(stock.tickerSymbol.toLowerCase())
      (stock.name_ar && lowerMessage.includes(stock.name_ar.toLowerCase()))
     return `${stock.tickerSymbol}:TADAWUL`;
  return null;
export async function POST(req: Request) {
  try {
   const { messages } = await req.json();
   const latestMessage = messages[messages.length - 1].content;
   // Extract company mentions
   console.log('Analyzing text for company mentions:', latestMessage);
   const mentionedCompany = extractCompanySymbol(latestMessage);
   if (!mentionedCompany) {
      return new Response (
       JSON.stringify({
         response: "I couldn't identify any specific stocks in your question. Please mention which stock you'd
 like to analyze.",
          thinking: "No stock symbols found",
          financial_context: {
           instruments_mentioned: [],
           market_sentiment: 'neutral',
           risk_level: 'medium',
           confidence_score: 0,
           technical_indicators: [],
            fundamental_factors: [],
           market_data_used: false,
           context_used: false
          timestamp: new Date().toISOString()
        { status: 200 }
     );
```

## /Users/abdulazizdot/Desktop/customer-suppaget-4agefnt4/app/api/chat/route.ts

```
// Fetch market data
   console.log('Fetching data for:', mentionedCompany);
   const [quoteResponse, statsResponse] = await Promise.all([
      fetch('${API_URL}/quote?symbol=${mentionedCompany}&apikey=${API_KEY}'),
      fetch('${API_URL}/statistics?symbol=${mentionedCompany}&apikey=${API_KEY}')
   const [quoteData, statsData] = await Promise.all([
      quoteResponse.json(),
      statsResponse.json()
   1);
   if (!quoteData || !statsData || !statsData.statistics) {
     throw new Error('Failed to fetch market data');
   // Build prompt with the actual data
   const prompt = buildPromptWithMarketData(latestMessage, quoteData, statsData);
   // Get AI analysis
   const claudeResponse = await anthropic.messages.create({
     model: "claude-3-5-sonnet-20241022",
      max_tokens: 4096,
     messages: [{ role: 'user', content: prompt }],
   1);
   return new Response (
     JSON.stringify({
        response: claudeResponse.content[0].text,
       thinking: "Analyzing market data and financials",
       financial_context: {
         quote: quoteData,
          statistics: statsData.statistics,
         timestamp: new Date().toISOString()
      }),
      { status: 200, headers: { "Content-Type": "application/json" } }
  } catch (error) {
   console.error('Error in chat handler:', error);
   return new Response (
     JSON.stringify({
       response: "I apologize, but I encountered an error while analyzing the market data. Please try again.",
       thinking: "Error processing request",
       error: error instanceof Error ? error.message : "Unknown error",
       timestamp: new Date().toISOString()
      }),
      { status: 500 }
   );
 - }
// function extractCompanySymbol(message: string): string | null {
    // Add company symbol extraction logic
    if (message.toLowerCase().includes('aramco')) {
      return '2222:TADAWUL';
//
    // Add more company matches as needed
    return null;
```

```
// app/api/market/quotes/route.ts
import { NextResponse } from "next/server";
import { API_KEY, API_URL } from "@/app/config/market";
import { MarketDataError } from '@/app/lib/errors';
export async function GET(request: Request) {
  const { searchParams } = new URL(request.url);
 const symbols = searchParams.get("symbols");
 if (!symbols) {
    throw new MarketDataError(
      'VALIDATION_ERROR',
      'Symbol is required'
      'error',
      { timestamp: new Date().toISOString() }
   );
    try {
    const response = await fetch(
      `${API_URL}/quote?symbol=${symbols}&apikey=${API_KEY}`
    if (!response.ok) {
     throw new Error("Failed to fetch quotes");
    const data = await response.json();
    const quotes: { [key: string]: any } = {};
    // Handle both single quote and multiple quotes responses
    if (Array.isArray(data)) {
     data.forEach((quote) => {
        quotes[quote.symbol] = {
          price: parseFloat(quote.close | | quote.price | | "0"),
          change: parseFloat(quote.change | "0"),
          changePercent: parseFloat(quote.percent_change | "0"),
          volume: parseInt(quote.volume | "0"),
       };
      });
    } else if (data.symbol) {
      quotes[data.symbol] = {
       price: parseFloat(data.close | data.price | "0"),
        change: parseFloat(data.change | "0"),
        changePercent: parseFloat(data.percent_change | "0"),
        volume: parseInt(data.volume | "0"),
     };
    // If API fails to return data, generate sample data for demo
    if (Object.keys(quotes).length === 0) {
      symbols.split(",").forEach((symbol) =>
       quotes[symbol] = {
          price: Math.random() * 100 + 50,
          change: (Math.random() - 0.5) * 5,
          changePercent: (Math.random() - 0.5) * 10
          volume: Math.floor(Math.random() * 1000000),
       };
     });
    return NextResponse.ison(quotes):
  } catch (error) {
    if (error instanceof MarketDataError) {
     return new Response (
       JSON.stringify({
          error: error.message,
          code: error.code.
          severity: error.severity,
          metadata: error.metadata
        }),
          status: error.severity === 'critical' ? 500 : 400,
          headers: { 'Content-Type': 'application/json' }
     );
    // Return sample data in case of error
    const sampleData = symbols.split(",").reduce((acc: any, symbol) => {
     acc[symbol] = {
       price: Math.random() * 100 + 50,
       change: (Math.random() - 0.5) * 5,
changePercent: (Math.random() - 0.5) * 10,
       volume: Math.floor(Math.random() * 1000000),
     return acc;
    }, {});
```

```
/ Users/abdulazizdot/Desktop/customer-suppaget-2 agent 2/app/api/market/quote/route.ts
```

```
return NextResponse.json(sampleData);
}
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-laopent2/app/api/market/stock/[symbol]/route.ts

```
// app/api/market/stock/[symbol]/route.ts
import { NextResponse } from "next/server";
import { API_KEY, API_URL } from "@/app/config/market";
export async function GET (
  request: Request,
  { params }: { params: { symbol: string } }
    // Fetch data from multiple endpoints
    const [quoteRes, statsRes, timeSeriesRes] = await Promise.all([
      fetch('${API URL}/quote?symbol=${params.symbol}&apikey=${API_KEY}')
      fetch('${API_URL}/statistics?symbol=${params.symbol}&apikey=${API_KEY}'),
      fetch('${API_URL}/time_series?symbol=${params.symbol}&interval=1day&outputsize=90&apikey=${API_KEY}')
    // Check responses
    if (!quoteRes.ok || !statsRes.ok || !timeSeriesRes.ok) {
      throw new Error('Failed to fetch data from API');
    const [quote, statistics, timeSeries] = await Promise.all([
      quoteRes.json(),
      statsRes.json(),
      timeSeriesRes.json()
    1):
    // Extract statistics data for easier access
    const stats = statistics.statistics || {};
    const valuations = stats.valuations_metrics | | {};
    const financials = stats.financials || {};
    const income = financials.income_statement | { };
    const returns = financials.returns | | {};
    const growth = financials.growth || {};
    const dividends = stats.dividends_and_splits | { };
    // Transform and combine data
    const stockData = {
      quote: {
        symbol: params.symbol,
        name: quote.name | '
        close: quote.close || quote.price?.toString() || '0',
        change: quote.change?.toString() | '0'
        percent_change: quote.percent_change?.toString() | '0',
        high: quote.high?.toString() | '0', low: quote.low?.toString() | '0',
        open: quote.open?.toString() || '0'
        volume: quote.volume?.toString() | '0'
      stats: {
        // Profile
        market_cap: valuations.market_capitalization |  0,
enterprise_value: valuations.enterprise_value |  0,
        shares_outstanding: stats.stock_statistics?.shares_outstanding | | 0,
        revenue: income.revenue_ttm || 0, employees: stats.employees || 0,
        gross_margin: financials.gross_margin | 0,
        ebitda_margin: financials.ebitda_margin | 0,
        operating_margin: financials.operating_margin | 0,
        pretax_margin: financials.pretax_margin || 0,
        net_margin: financials.profit_margin | 0,
        fcf_margin: financials.fcf_margin | 0,
        // Returns (5Yr Avg)
        roa: returns.return_on_assets_5yr || 0,
        rota: returns.return_on_total_assets_5yr || 0,
        roe: returns.return_on_equity_5yr | 0,
        roce: returns.return_on_capital_employed_5yr || 0,
        roic: returns.return_on_invested_capital_5yr | 0,
        // Valuation (TTM)
        pe_ratio: valuations.trailing_pe || 0,
        pb_ratio: valuations.price_to_book_mrq || 0,
        ev_sales: valuations.enterprise_to_revenue || 0,
        ev_ebitda: valuations.enterprise_to_ebitda | 0,
        pfcf_ratio: valuations.price_to_fcf || 0,
        ev_gross_profit: valuations.enterprise_to_gross_profit | | 0,
        // Valuation (NTM)
        price_target: valuations.analyst_target_price | 0,
        forward_pe: valuations.forward_pe | 0,
        peg_ratio: valuations.peg_ratio | 0,
        forward_ev_sales: valuations.forward_ev_to_revenue
        forward_ev_ebitda: valuations.forward_ev_to_ebitda |
```

## /Users/abdulazizdot/Desktop/customer-suppaget-2agefnt2/app/api/market/stock/[symbol]/route.ts

```
forward_pfcf: valuations.forward_price_to_fcf || 0,
      // Financial Health
      cash: financials.total_cash || 0,
      net_debt: financials.net_debt | 0,
      debt_to_equity: financials.debt_to_equity | 0,
      interest_coverage: financials.interest_coverage | 0,
      // Growth (CAGR)
      revenue_growth_3y: growth.revenue_growth_3y || 0, revenue_growth_5y: growth.revenue_growth_5y || 0,
      revenue_growth_10y: growth.revenue_growth_10y | 0,
      eps_growth_3y: growth.eps_growth_3y || 0, eps_growth_5y: growth.eps_growth_5y || 0,
      eps_growth_10y: growth.eps_growth_10y | 0,
      revenue_growth_fwd_2y: growth.revenue_growth_fwd_2y || 0,
      ebitda_growth_fwd_2y: growth.ebitda_growth_fwd_2y | 0,
      eps_growth_fwd_2y: growth.eps_growth_fwd_2y || 0,
      eps_growth_lt: growth.eps_growth_lt || 0,
      // Dividends
      dividend_yield: dividends.trailing_annual_dividend_yield | 0,
      payout_ratio: dividends.payout_ratio || 0,
      dps: dividends.trailing_annual_dividend_rate
      dps_growth_3y: dividends.dividend_growth_3y | 0, dps_growth_5y: dividends.dividend_growth_5y | 0,
      dps_growth_10y: dividends.dividend_growth_10y || 0,
      dps_growth_fwd_2y: dividends.dividend_growth_fwd_2y || 0,
    timeSeries: {
      values: timeSeries.values?.map((item: any) => ({
        datetime: item.datetime,
        open: item.open?.toString() | | '0',
        high: item.high?.toString() | '0',
        low: item.low?.toString() | '0',
        close: item.close?.toString() || '0'
        volume: item.volume?.toString() | '0'
      })) || []
 return NextResponse.json(stockData);
} catch (error) {
  console.error('Error fetching stock data:', error);
  return NextResponse.json(
    { error: 'Failed to fetch stock data' },
    { status: 500 }
 );
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-laopenti/app/api/market/company/route.ts

```
// app/api/market/company/route.ts
import { NextResponse } from "next/server";
import { API_KEY, API_URL } from "@/app/config/market";
export async function GET (request: Request) {
 const { searchParams } = new URL(request.url);
 const symbol = searchParams.get("symbol");
 if (!symbol) {
   return NextResponse.json({ error: "Symbol is required" }, { status: 400 });
    // Fetch fundamental data
   const [statsResponse, incomeResponse, balanceResponse] = await Promise.all([
     fetch('${API_URL}/statistics?symbol=${symbol}&apikey=${API_KEY}'),
      fetch('${API_URL}/income_statement?symbol=${symbol}&apikey=${API_KEY}'),
     fetch('${API_URL}/balance_sheet?symbol=${symbol}&apikey=${API_KEY}')
   1);
   const [stats, income, balance] = await Promise.all([
     statsResponse.json(),
     incomeResponse.json()
     balanceResponse.json()
   // Calculate key metrics
   const latestIncome = income.income_statement?.[0] | {};
   const latestBalance = balance.balance_sheet?.[0] | { };
   const revenue = latestIncome.revenue || 0;
   const ebitda = latestIncome.ebitda | | 0;
   const netIncome = latestIncome.net_income | 0;
   const totalAssets = latestBalance.total_assets || 0;
   const totalEquity = latestBalance.total_shareholders_equity | | 0;
   const response = {
     // Market data
     market_cap: stats.market_cap | 0,
     enterprise_value: stats.enterprise_value | 0,
     shares_outstanding: stats.shares_outstanding || 0,
      // Valuation metrics
     pe_ratio: stats.pe_ratio | 0,
     pb_ratio: stats.price_to_book | 0,
     ev_to_sales: stats.enterprise_value_to_revenue | | 0,
     ev_to_ebitda: stats.enterprise_value_to_ebitda | 0,
     // Financial metrics
     revenue: revenue,
     ebitda: ebitda.
     net_income: netIncome,
      total_assets: totalAssets,
     total_equity: totalEquity,
     // Operating metrics
     employees: stats.full_time_employees | | 0,
     // Margins
     gross_margin: latestIncome.gross_margin || 0,
     ebitda_margin: ebitda / revenue | 0,
      operating_margin: latestIncome.operating_margin || 0,
      net_margin: netIncome / revenue | 0,
     fcf_margin: (latestIncome.operating_cash_flow - latestIncome.capital_expenditure) / revenue | 0,
      // Growth metrics
     revenue_growth: stats.quarterly_revenue_growth | 0,
      earnings_growth: stats.quarterly_earnings_growth || 0
   return NextResponse.json(response);
  } catch (error) {
   console.error('Error fetching company data:', error);
   return NextResponse.json(
      { error: "Failed to fetch company data" },
     { status: 500 }
   );
```

```
// /app/market/saudiMarketHandler.ts
import { API_KEY, API_URL, SAUDI_SYMBOLS, SAUDI_MARKET } from '@/app/config/market';
import { MarketValidation } from './services/marketValidation';
import { MarketQuality } from './services/marketQuality';
import { MarketDataQuality } from './types/marketTypes';
export class SaudiMarketHandler {
 private static readonly ENDPOINTS = {
   QUOTE: (symbol: string) => \'quote?symbol=${symbol}&apikey=${API_KEY} \'
   STATISTICS: (symbol: string) => '/statistics?symbol=${symbol}&apikey=${API_KEY}',
   INCOME: (symbol: string) => '/income_statement?symbol=${symbol}&period=quarterly&apikey=${API_KEY}',
   BALANCE: (symbol: string) => \balance_sheet?symbol=${symbol}&period=quarterly&apikey=${API_KEY}',
   CASH_FLOW: (symbol: string) => '/cash_flow?symbol=${symbol}&period=quarterly&apikey=${API_KEY}}
 1:
 private static readonly CACHE_DURATION = 300000; // 5 minutes
 private static cache = new Map<string, { data: any; timestamp: number }>();
 private static async fetchWithCache(endpoint: string): Promise<any> {
     const url = '${API_URL}${endpoint}';
     const cached = this.cache.get(url);
      if (cached && Date.now() - cached.timestamp < this.CACHE_DURATION) {
       return cached.data:
      console.log('Fetching URL:', url);
     const response = await fetch(url);
     if (!response.ok) {
       throw new Error('HTTP error! status: ${response.status}');
     const data = await response.json();
     if (data.status === 'error') {
       throw new Error(data.message |  'API Error');
      this.cache.set(url, {
       data.
        timestamp: Date.now()
     return data;
   } catch (error) {
      console.error('Fetch error:', error);
      const cached = this.cache.get(endpoint);
      if (cached) {
       console.log('Using cached data due to fetch error');
       return cached.data;
      return null:
 private static async getFundamentals(symbol: string): Promise<any> {
      const [statistics, incomeStatement, balanceSheet, cashFlow] = await Promise.all([
       this.fetchWithCache(this.ENDPOINTS.STATISTICS(symbol)),
       this.fetchWithCache(this.ENDPOINTS.INCOME(symbol)),
        this.fetchWithCache (this.ENDPOINTS.BALANCE (symbol))
       this.fetchWithCache(this.ENDPOINTS.CASH_FLOW(symbol))
     1);
     return {
       statistics,
        incomeStatement,
       balanceSheet.
       cashFlow
     console.error(`Error fetching fundamentals for ${symbol}:', error);
      return null:
  static async getQuoteData(symbol: string): Promise<any> {
   try {
     const formattedSymbol = this.formatTadawulSymbol(symbol);
      const stockInfo = SAUDI_SYMBOLS.find(s =>
       s.symbol === formattedSymbol ||
       s.tickerSymbol === symbol
      );
```

```
if (!stockInfo) {
     return null;
    const quoteData = await this.fetchWithCache(this.ENDPOINTS.QUOTE(formattedSymbol));
   if (!quoteData) {
     return null;
    // Make fundamentals optional and don't let it block the main response
    const fundamentals = await this.getFundamentals(formattedSymbol)
      .catch(() => null);
    return {
      symbol: stockInfo.tickerSymbol,
      name: stockInfo.name,
      name_ar: stockInfo.name_ar,
      price: this.safeParseNumber(quoteData.close | quoteData.price),
      change: this.safeParseNumber(quoteData.change),
      percent_change: this.safeParseNumber(quoteData.percent_change),
      volume: this.safeParseNumber(quoteData.volume),
      timestamp: this.formatTimestamp(quoteData.timestamp),
      sector: stockInfo.sector,
      trading_info: {
        open: this.safeParseNumber(quoteData.open),
       high: this.safeParseNumber(quoteData.high),
       low: this.safeParseNumber(quoteData.low),
        previous_close: this.safeParseNumber(quoteData.previous_close),
        is_market_open: quoteData.is_market_open || false,
        fifty_two_week: quoteData.fifty_two_week
      fundamentals: fundamentals
  } catch (error) {
    console.error(`Error fetching quote for ${symbol}:', error);
    return null:
static async analyzeMentionedCompanies(text: string): Promise<{</pre>
  companies: anv[]:
  sectors: Set<string>:
 try {
   console.log('Analyzing text for company mentions:', text);
   const mentionedStocks = SAUDI_SYMBOLS.filter(stock => {
      const nameMatch = stock.name && text.toLowerCase().includes(stock.name.toLowerCase());
      const tickerMatch = stock.tickerSymbol && text.includes(stock.tickerSymbol);
      const arabicMatch = stock.name_ar && text.includes(stock.name_ar);
     return nameMatch | tickerMatch | arabicMatch;
    console.log('Found mentioned stocks:', mentionedStocks.length);
    if (mentionedStocks.length === 0) {
      return {
       companies: [],
        sectors: new Set<string>()
      1:
    const quotesPromises = mentionedStocks.map(async (stock) => {
       return await this.getOuoteData(stock.tickerSvmbol);
      } catch (error) {
       console.error(`Error fetching data for ${stock.tickerSymbol}:', error);
        return null;
    1);
    const quotes = (await Promise.all(quotesPromises))
      .filter(quote => quote !== null);
    console.log('Successfully fetched data for', quotes.length, 'companies');
    return {
      companies: quotes,
      sectors: new Set(mentionedStocks.map(stock => stock.sector))
  } catch (error) {
    console.error('Error analyzing mentioned companies:', error);
    return {
     companies: [],
      sectors: new Set<string>()
    };
```

## /Users/abdulazizdot/Desktop/customer-suppaget-3agefnt3/app/market/saudiMarketHandler.ts

```
}

private static formatTadawulSymbol(symbol: string): string {
   const cleanSymbol = symbol.replace(/\.(SAU|TADAWUL)$/, '');
   return '${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 formatTimestamp(timestamp?: number | string): string {
   if (!timestamp) return new Date().toISOString();
   if (typeof timestamp === 'number') {
      return new Date(timestamp * 1000).toISOString();
   }
   return timestamp;
}
```

## /Users/abdulazizdot/Desktop/customer-suppaget-lagefntl/app/market/types/marketTypes.ts

// /app/market/types/marketTypes.ts

```
export interface ValidationResult {
    isValid: boolean;
    score: number;
    timestamp: string;
   issues: string[];
    warnings: string[];
  export interface MarketDataQuality {
    freshness: {
     lastUpdate: string;
      isStale: boolean;
     age: number;
    validation: {
     price: ValidationResult;
      volume: ValidationResult;
     fundamentals?: ValidationResult;
    reliability: {
     dataCompleteness: number;
      sourceQuality: number;
     overallScore: number;
   };
  export interface MarketError {
    code: string;
   message: string;
   severity: 'critical' | 'warning' | 'info';
timestamp: string;
    context?: any;
```

## /Users/abdulazizdot/Desktop/customer-suppaget-lagefntl/app/market/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;
    };
```

```
// /app/market/services/marketValidation.ts
import { ValidationResult } from '../types//marketTypes';
export class MarketValidation {
 private static readonly RULES = {
   PRICE: {
     MAX_DAILY_CHANGE: 0.20, // 20%
      MIN_PRICE: 0.01,
     MAX_PRICE: 10000
    VOLUME: {
     MIN_DAILY_VOLUME: 100,
      MAX_SPIKE: 1000 // 1000% increase from average
    FUNDAMENTALS: {
     MAX_PE_RATIO: 200,
     MIN_MARKET_CAP: 1000000,
     MAX_DEBT_EQUITY: 5
 };
  static validatePrice(
    currentPrice: number,
    previousClose: number,
    lastUpdate: string
 ): ValidationResult {
    const issues: string[] = [];
    const warnings: string[] = [];
    let score = 100;
    // Check price range
    if (currentPrice < this.RULES.PRICE.MIN_PRICE) {</pre>
      issues.push('Price too low: ${currentPrice}');
    if (currentPrice > this.RULES.PRICE.MAX_PRICE) {
     issues.push('Price too high: ${currentPrice}');
      score -= 30;
    // Check price change
    if (previousClose > 0) {
      const priceChange = Math.abs(currentPrice - previousClose) / previousClose;
      if (priceChange > this.RULES.PRICE.MAX_DAILY_CHANGE) {
       warnings.push('Large price change: ${(priceChange * 100).toFixed(2)}%');
       score -= 20:
    return {
     isValid: issues.length === 0,
      score: Math.max(0, score);
      timestamp: new Date().toISOString(),
      issues,
      warnings
   };
 static validateVolume(
    currentVolume: number
    averageVolume: number
  ): ValidationResult {
   const issues: string[] = [];
    const warnings: string[] = [];
    let_score = 100:
    if (currentVolume < this.RULES.VOLUME.MIN_DAILY_VOLUME) {</pre>
     issues.push('Volume too low: ${currentVolume}');
      score -= 30:
    if (averageVolume > 0) {
      const volumeSpike = currentVolume / averageVolume;
      if (volumeSpike > this.RULES.VOLUME.MAX_SPIKE) {
       warnings.push('Unusual volume spike: ${volumeSpike.toFixed(2)}x average');
        score -= 20;
    return {
      isValid: issues.length === 0,
      score: Math.max(0, score),
     timestamp: new Date().toISOString(),
      issues,
      warnings
```

## /Users/abdulazizdot/Desktop/customer-suppaget2agefnt2/app/market/services/marketValidation.ts

```
};
}
static validateFundamentals(data: {
  peRatio?: number;
  marketCap?: number;
  debtEquity?: number;
}): ValidationResult {
  const issues: string[] = [];
  const warnings: string[] = [];
  let score = 100;
  if (data.peRatio && data.peRatio > this.RULES.FUNDAMENTALS.MAX_PE_RATIO) {
    warnings.push('High P/E ratio: ${data.peRatio}');
  if (data.marketCap && data.marketCap < this.RULES.FUNDAMENTALS.MIN_MARKET_CAP) {
    issues.push('Low market cap: ${data.marketCap}');
  if (data.debtEquity && data.debtEquity > this.RULES.FUNDAMENTALS.MAX_DEBT_EQUITY) {
   warnings.push('High debt/equity ratio: ${data.debtEquity}');
  return {
   isValid: issues.length === 0,
    score: Math.max(0, score),
    timestamp: new Date().toISOString(),
    issues,
    warnings
  } ;
}
```

```
// /app/market/services/marketQuality.ts
import { MarketDataQuality, ValidationResult } from '../types/marketTypes';
export class MarketQuality {
 private static readonly MAX_DATA_AGE = 300000; // 5 minutes
  static assessDataQuality(
   priceValidation: ValidationResult,
    volumeValidation: ValidationResult,
    fundamentalsValidation: ValidationResult | undefined,
    lastUpdate: string
  ): MarketDataQuality {
    // Calculate data freshness
    const freshness = this.calculateFreshness(lastUpdate);
    // Calculate reliability scores
    const reliability = this.calculateReliability(
      priceValidation,
      volumeValidation,
      fundamentals Validation,
      freshness
    );
    return {
      freshness,
      validation: {
       price: priceValidation,
        volume: volumeValidation,
       fundamentals: fundamentalsValidation
      reliability
    };
  }
 private static calculateFreshness(lastUpdate: string): {
    lastUpdate: string;
    isStale: boolean;
    age: number;
    const now = Date.now();
    const updateTime = new Date(lastUpdate).getTime();
const age = now - updateTime;
    return {
      lastUpdate,
      isStale: age > this.MAX_DATA_AGE,
    };
 private static calculateReliability(
    priceValidation: ValidationResult,
    volumeValidation: ValidationResult,
    fundamentalsValidation: ValidationResult | undefined,
    freshness: { isStale: boolean; age: number }
 ): {
    dataCompleteness: number;
    sourceQuality: number;
    overallScore: number;
  }
    let dataCompleteness = 100;
    // Reduce completeness score for missing or invalid data
    if (!priceValidation.isValid) dataCompleteness -= 40;
    if (!volumeValidation.isValid) dataCompleteness -= 30;
    if (!fundamentalsValidation) dataCompleteness -= 20;
    // Calculate source quality based on validation scores
    const sourceOuality = (
      priceValidation.score * 0.4 +
      volumeValidation.score * 0.3 +
      (fundamentalsValidation?.score | 0) * 0.3
    // Calculate overall score
    let overallScore = (
      dataCompleteness * 0.3 +
      sourceQuality * 0.4 +
      (freshness.isStale ? 50 : 100) * 0.3
    // Ensure scores are within bounds
    return {
      dataCompleteness: Math.max(0, Math.min(100, dataCompleteness)),
      sourceQuality: Math.max(0, Math.min(100, sourceQuality)),
```

```
/Users/abdulazizdot/Desktop/customer-suppaget-2agen2/app/market/services/marketQuality.ts
```

```
overallScore: Math.max(0, Math.min(100, overallScore))
};
}
```

## /Users/abdulazizdot/Desktop/customer-suppaget-lagefintl/app/documents/types/document.ts

```
export type DocumentCategory =
    'regulation'
    'profile'
    'research'
    'educational'
   'market-update';
export type DocumentLanguage = 'en' | 'ar';
export interface DocumentMetadata {
 id: string;
 title: string;
 category: DocumentCategory;
 tags: string[];
  language: DocumentLanguage;
 lastUpdated: string;
 source: string;
 version: string;
export interface FinancialDocument {
 metadata: DocumentMetadata;
  content: string;
 path: string;
export interface DocumentSearchResult {
 document: FinancialDocument;
  relevanceScore: number;
 matchedSegments: string[];
export interface DocumentContext {
 relevantDocuments: DocumentSearchResult[];
  confidence: number;
 context: string;
export interface DocumentStore {
  documents: Map<string, FinancialDocument>;
  indexes: {
   byCategory: Map<DocumentCategory, string[]>;
    byTag: Map<string, string[]>;
   byLanguage: Map<DocumentLanguage, string[]>;
 };
export interface DocumentQuery {
 searchTerm?: string;
  category?: DocumentCategory;
  tags?: string[];
 language?: DocumentLanguage;
  limit?: number;
```

# /Users/abdulazizdot/Desktop/customer-suppaget-lagefnt2/app/documents/utils/documentLoader.ts

```
import { FinancialDocument, DocumentCategory, DocumentMetadata } from '../types/document';
import FinancialDocumentStore from '../store/documentStore';
export class DocumentLoader {
 private store: FinancialDocumentStore;
 constructor() {
   this.store = FinancialDocumentStore.getInstance();
 async loadDocument(file: File): Promise<FinancialDocument> {
   try {
     // Read file content
      const content = await this.readFileContent(file);
      // Generate metadata
      const metadata = await this.generateMetadata(file);
      // Create document
      const document: FinancialDocument = {
       metadata,
       content,
       path: file.name,
      // Add to store
      await this.store.addDocument(document);
      return document;
    } catch (error) {
      console.error('Error loading document:', error);
      throw error;
 private async readFileContent(file: File): Promise<string> {
   return new Promise((resolve, reject) => {
      const reader = new FileReader();
      reader.onload = (e) => {
       resolve(e.target?.result as string);
     };
      reader.onerror = (e) => {
       reject(new Error('Error reading file'));
      reader.readAsText(file);
   });
 private async generateMetadata(file: File): Promise<DocumentMetadata> {
    // Extract category from file path/name
   const category = this.determineCategory(file.name);
    // Generate unique ID
   const id = this.generateDocumentId(file.name);
     id.
     title: file.name.replace(/\.[^/.]+$/, ""), // Remove extension
      category,
      tags: this.generateTags(file.name, category),
     language: this.determineLanguage(file.name),
      lastUpdated: new Date().toISOString().
      source: 'local',
     version: '1.0'
 private determineCategory(filename: string): DocumentCategory {
    // Implement logic to determine category based on filename or path
   if (filename.includes('regulation')) return 'regulation';
   if (filename.includes('profile')) return 'profile';
   if (filename.includes('research')) return 'research';
   if (filename.includes('educational')) return 'educational';
   return 'market-update';
 private generateDocumentId(filename: string): string {
   return 'doc_${Date.now()}_${Math.random().toString(36).substr(2, 9)}';
 private generateTags(filename: string, category: DocumentCategory): string[] {
   const tags = new Set<string>():
```

## /Users/abdulazizdot/Desktop/customer-suppaget2agefnt2/app/documents/utils/documentLoader.ts

```
// Add category as tag
tags.add(category);

// Add filename-based tags
const words = filename
    .toLowerCase()
    .replace(/[^a-z0-9\s]/g, ' ')
    .split(' ')
    .filter(word => word.length > 3);

words.forEach(word => tags.add(word));

return Array.from(tags);
}

private determineLanguage(filename: string): 'en' | 'ar' {
    // Simple language detection based on filename
    // Enhance this based on your needs
    return filename.includes('_ar') ? 'ar' : 'en';
}
}
export const documentLoader = new DocumentLoader();
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-lagefn2/app/documents/hooks/useChatDocuments.ts

```
import { useState, useCallback } from 'react';
import { useDocuments } from '../context/DocumentContext';
import { DocumentSearchResult, DocumentQuery } from '../types/document';
interface ChatDocumentContext {
  relevantDocuments: DocumentSearchResult[];
 documentContext: string;
 confidence: number;
export function useChatDocuments() {
 const { searchDocuments } = useDocuments();
 const [lastContext, setLastContext] = useState<ChatDocumentContext | null>(null);
  const getDocumentContext = useCallback(async (message: string): Promise<ChatDocumentContext> => {
   // Extract key terms and topics from the message
   const query: DocumentQuery = {
      searchTerm: message,
      limit: 5 // Limit to most relevant documents
   try {
      // Search for relevant documents
      const relevantDocs = await searchDocuments(query);
      // Build context from relevant documents
      const context = buildDocumentContext(relevantDocs);
      // Calculate confidence based on relevance scores
      const confidence = calculateContextConfidence(relevantDocs);
      const result = {
       relevantDocuments: relevantDocs,
        documentContext: context,
       confidence
      setLastContext(result);
      return result;
    } catch (error) {
      console.error('Error getting document context:', error);
      return {
       relevantDocuments: [],
        documentContext: '',
       confidence: 0
     };
  }, [searchDocuments]);
 const buildDocumentContext = (documents: DocumentSearchResult[]): string => {
   let context = '';
    documents.forEach((doc, index) => {
      // Add document metadata
      context += '[Document ${index + 1}: ${doc.document.metadata.title}]\n';
      // Add matched segments if available
      if (doc.matchedSegments.length > 0) {
        context += 'Relevant excerpts:\n';
        doc.matchedSegments.forEach(segment => {
         context += '- ${segment}\n';
        });
      } else {
        // If no specific matches, add document summary
        const summary = summarizeDocument(doc.document.content);
        context += 'Summary: ${summary}\n';
      context += ' \n';
   });
   return context;
  const summarizeDocument = (content: string): string => {
    // Simple summarization - take first few sentences
   const sentences = content.split(/[.!?]+/).filter(Boolean);
   return sentences.slice(0, 2).join('.') + '.';
  const calculateContextConfidence = (documents: DocumentSearchResult[]): number => {
   if (documents.length === 0) return 0;
    // Average relevance scores
   const avgRelevance = documents.reduce((sum, doc) =>
```

## /Users/abdulazizdot/Desktop/customer-suppaget2agefn2/app/documents/hooks/useChatDocuments.ts

```
sum + doc.relevanceScore, 0) / documents.length;

// Consider number of documents found
const coverageScore = Math.min(documents.length / 5, 1); // Max score with 5 docs

return (avgRelevance * 0.7 + coverageScore * 0.3);
};

return {
    getDocumentContext,
    lastContext
};
```

```
import {
   DocumentStore,
   FinancialDocument,
   DocumentCategory,
   DocumentQuery,
   DocumentSearchResult
 } from '../types/document';
 export class FinancialDocumentStore {
   private store: DocumentStore;
   private static instance: FinancialDocumentStore;
   private constructor() {
     this.store = {
       documents: new Map(),
       indexes: {
         byCategory: new Map(),
         byTag: new Map(),
         byLanguage: new Map()
     };
   }
   static getInstance(): FinancialDocumentStore {
     if (!FinancialDocumentStore.instance) {
       FinancialDocumentStore.instance = new FinancialDocumentStore();
     return FinancialDocumentStore.instance;
   async addDocument(document: FinancialDocument) {
      // Add to main store
     this.store.documents.set(document.metadata.id, document);
     // Update indexes
     this.updateIndexes(document);
   private updateIndexes(document: FinancialDocument) {
     // Update category index
     this.store.indexes.byCategory.set(
       document.metadata.category,
       [...categoryDocs, document.metadata.id]
      // Update tag index
     document.metadata.tags.forEach(tag => {
       const tagDocs = this.store.indexes.byTag.get(tag) | [];
       this.store.indexes.byTaq.set(taq, [...taqDocs, document.metadata.id]);
     });
     // Update language index
     const langDocs = this.store.indexes.byLanguage.get(document.metadata.language) | [];
     this.store.indexes.byLanguage.set(
       document.metadata.language,
       [...langDocs, document.metadata.id]
     );
   async searchDocuments(query: DocumentQuery): Promise<DocumentSearchResult[]> {
     const results: DocumentSearchResult[] = [];
     // Get initial document set based on filters
     let documentSet = this.getFilteredDocuments(query);
      // If search term exists, perform text search
     if (query.searchTerm) {
       documentSet = this.performTextSearch(documentSet, query.searchTerm);
      // Convert to search results with relevance scores
     documentSet.forEach(doc => {
       results.push({
         document: doc.
         relevanceScore: this.calculateRelevanceScore(doc, query),
         matchedSegments: this.findMatchedSegments(doc, query.searchTerm)
       });
     });
     // Sort by relevance and apply limit
     return results
       .sort((a, b) => b.relevanceScore - a.relevanceScore)
       .slice(0, query.limit | results.length);
```

```
private getFilteredDocuments(query: DocumentQuery): FinancialDocument[] {
  let documents = Array.from(this.store.documents.values());
  if (query.category) {
    documents = documents.filter(doc =>
     doc.metadata.category === query.category
  if (query.tags?.length) {
    documents = documents.filter(doc =>
     query.tags!.some(tag => doc.metadata.tags.includes(tag))
 }
  if (query.language) {
    documents = documents.filter(doc =>
     doc.metadata.language === query.language
  return documents;
private performTextSearch(
  documents: FinancialDocument[],
  searchTerm: string
): FinancialDocument[] {
  const normalizedSearch = searchTerm.toLowerCase();
  return documents.filter(doc => {
    // Search in content
    if (doc.content.toLowerCase().includes(normalizedSearch)) {
     return true;
    // Search in metadata
    if (doc.metadata.title.toLowerCase().includes(normalizedSearch)) {
     return true;
    // Search in tags
    if (doc.metadata.tags.some(tag =>
     tag.toLowerCase().includes(normalizedSearch))
     return true;
    return false;
  });
private calculateRelevanceScore(
  document: FinancialDocument,
  query: DocumentOuery
): number {
  let score = 1;
  if (query.searchTerm) {
    // Calculate text match relevance
    const termFrequency = this.calculateTermFrequency(
     document.content,
     query.searchTerm
    );
    score *= (1 + termFrequency);
  // Boost score based on recency
  const docAge = Date.now() - new Date(document.metadata.lastUpdated).getTime();
  const recencyBoost = 1 + (1 / (1 + docAge / (1000 * 60 * 60 * 24))); // Decay over days
  score *= recencyBoost;
  return score;
private calculateTermFrequency(text: string, term: string): number {
  const regex = new RegExp(term, 'gi');
  const matches = text.match(regex);
  return matches ? matches.length / text.length : 0;
private findMatchedSegments(
 document: FinancialDocument,
  searchTerm?: string
): string[] {
 if (!searchTerm) return [];
 const segments: string[] = [];
  const regex = new RegExp('(.{0,50}${searchTerm}.{0,50})', 'gi');
  let match:
```

## /Users/abdulazizdot/Desktop/customer-suppaget-3agefn5/app/documents/store/documentStore.ts

```
while ((match = regex.exec(document.content)) !== null) {
    segments.push(match[1]);
}

return segments;
}

getDocumentById(id: string): FinancialDocument | undefined {
    return this.store.documents.get(id);
}

getDocumentsByCategory(category: DocumentCategory): FinancialDocument[] {
    const docIds = this.store.indexes.byCategory.get(category) || [];
    return docIds
    .map(id => this.store.documents.get(id))
    .filter((doc): doc is FinancialDocument => doc !== undefined);
}

export default FinancialDocumentStore;
```

## /Users/abdulazizdot/Desktop/customer-suppaget-lagefnti/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%;
    }
/* globals.css */
@layer base {
   .tabular-nums {
     font-variant-numeric: tabular-nums;
 }
  @layer utilities {
    .line-clamp-3 {
     display: -webkit-box;
      -webkit-line-clamp: 3;
      -webkit-box-orient: vertical;
      overflow: hidden;
   }
@layer base {
    * {
        @apply border-border;
   body {
        @apply bg-background text-foreground;
}
```

```
// app/services/MarketAnalysisService.ts
import { SaudiMarketHandler } from '@/app/market/saudiMarketHandler';
import { MarketValidation } from '@/app/market/services/marketValidation';
import { MarketQuality } from '@/app/market/services/marketQuality';
import { SAUDI_SYMBOLS } from '@/app/config/market';
import { SaudiFundamentals } from '@/app/lib/services/saudiFundamentals';
interface MarketAnalysisResult {
  technicalAnalysis: {
   trend: string;
   signals: string[];
   indicators: {
     movingAverages: any;
     momentum: any;
     volatility: any;
   };
   strength: number;
  fundamentalAnalysis: {
   metrics: any;
   ratios: any;
   growth: any;
   quality: number;
 sectorAnalysis: {
   performance: any;
   peers: any[];
   ranking: number;
 sentiment: {
   overall: 'bullish' | 'bearish' | 'neutral';
   confidence: number;
   factors: string[];
 risks: {
   technical: string[];
   fundamental: string[];
   market: string[];
   riskLevel: 'low' | 'medium' | 'high';
 quality: {
   dataCompleteness: number;
   reliability: number;
   confidence: number;
 };
}
export class MarketAnalysisService {
 private static readonly RISK_THRESHOLDS = {
   VOLATILITY_HIGH: 30,
   DEBT_EQUITY_HIGH: 2,
   PE_HIGH: 30,
   VOLUME_LOW: 100000
  // Step 1: Technical Analysis
 private static async analyzeTechnicalFactors(symbol: string): Promise<any> {
   const quoteData = await SaudiMarketHandler.getQuoteData(symbol);
   if (!quoteData) {
     throw new Error('Unable to fetch quote data for technical analysis');
    // Calculate moving averages
   const movingAverages = this.calculateMovingAverages(quoteData);
    // Calculate momentum indicators
   const momentum = this.calculateMomentumIndicators(quoteData);
    // Calculate volatility
   const volatility = this.calculateVolatility(quoteData);
   // Determine trend and signals
   const trend = this.determineTrend(movingAverages, momentum);
   const signals = this.generateTechnicalSignals(movingAverages, momentum, volatility);
   return
     trend,
      signals,
      indicators: {
       movingAverages,
       momentum,
       volatility
      strength: this.calculateTechnicalStrength(trend, signals)
```

```
};
}
// Step 2: Fundamental Analysis
private static async analyzeFundamentals(symbol: string): Promise<any> {
  const fundamentals = await SaudiFundamentals.getFundamental(symbol);
  if (!fundamentals) {
   throw new Error ('Unable to fetch fundamental data for analysis');
  // Calculate key metrics
  const metrics = this.calculateKeyMetrics(fundamentals);
  // Calculate financial ratios
  const ratios = this.calculateFinancialRatios(fundamentals);
  // Analyze growth
  const growth = this.analyzeGrowthMetrics(fundamentals);
  return {
   metrics.
   ratios,
   growth,
   quality: this.assessFundamentalQuality(metrics, ratios, growth)
 };
}
// Step 3: Sector Analysis
private static async analyzeSectorContext(symbol: string): Promise<any> {
  const stockInfo = SAUDI_SYMBOLS.find(s => s.symbol === symbol);
  if (!stockInfo?.sector) {
   throw new Error('Sector information not available');
  // Get sector averages
  const sectorData = await SaudiFundamentals.getSectorAverages(stockInfo.sector);
  // Get peer companies
  const peers = SAUDI_SYMBOLS.filter(s =>
   s.sector === stockInfo.sector && s.symbol !== symbol
  ) :
  // Calculate sector performance
  const performance = await this.calculateSectorPerformance(stockInfo.sector);
  // Calculate company's ranking in sector
  const ranking = await this.calculateSectorRanking(symbol, peers);
  return {
   performance,
   peers: peers.map(p => ({
     symbol: p.symbol,
     name: p.name,
     metrics: sectorData[p.symbol]
   })),
   ranking
// Step 4: Risk Assessment
private static assessRisks(technical: any, fundamental: any, sector: any): any {
  const risks = {
   technical: [] as string[],
    fundamental: [] as string[],
   market: [] as string[],
   riskLevel: 'low' as 'low' | 'medium' | 'high'
  // Technical risks
  if (technical.volatility > this.RISK_THRESHOLDS.VOLATILITY_HIGH) {
   risks.technical.push('High volatility detected');
  // Fundamental risks
  if (fundamental.ratios.debtEquity > this.RISK_THRESHOLDS.DEBT_EQUITY_HIGH) {
   risks.fundamental.push('High debt levels');
  // Market risks
  const marketRisks = this.assessMarketRisks(sector);
  risks.market = marketRisks;
  // Calculate overall risk level
  risks.riskLevel = this.calculateOverallRiskLevel(risks);
```

```
return risks;
// Step 5: Market Sentiment Analysis
private static analyzeMarketSentiment(
  technical: any,
  fundamental: anv,
  sector: any
): any {
  const sentimentFactors = [];
  let sentimentScore = 0;
  // Technical sentiment
  if (technical.trend === 'upward') {
    sentimentScore += 1;
   sentimentFactors.push('Positive technical trend');
  // Fundamental sentiment
  if (fundamental.quality > 0.7) {
   sentimentScore += 1;
    sentimentFactors.push('Strong fundamentals');
  // Sector sentiment
  if (sector.performance.growth > 0) {
    sentimentScore += 1;
    sentimentFactors.push('Positive sector performance');
  return {
    overall: this.determineSentiment(sentimentScore).
    confidence: this.calculateSentimentConfidence(sentimentFactors),
    factors: sentimentFactors
 };
// Main Analysis Method
public static async analyzeMarket(symbol: string): Promise<MarketAnalysisResult> {
  try {
    // Validate input
    if (!symbol) {
     throw new Error('Symbol is required for market analysis');
    // 1. Perform Technical Analysis
    const technicalAnalysis = await this.analyzeTechnicalFactors(symbol);
    // 2. Perform Fundamental Analysis
    const fundamentalAnalysis = await this.analyzeFundamentals(symbol);
    // 3. Perform Sector Analysis
    const sectorAnalysis = await this.analyzeSectorContext(symbol);
    // 4. Assess Risks
    const risks = this.assessRisks(
      technical Analysis,
      fundamentalAnalysis,
     sectorAnalysis
    // 5. Analyze Market Sentiment
    const sentiment = this.analyzeMarketSentiment(
     technicalAnalysis,
      fundamentalAnalysis,
     sectorAnalysis
   );
    // 6. Assess Data Quality
    const quality = MarketQuality.assessDataQuality(
      MarketValidation.validatePrice(
        technicalAnalysis.price,
        technicalAnalysis.previousClose,
       new Date().toISOString()
     MarketValidation.validateVolume(
        technicalAnalysis.volume,
       technicalAnalysis.averageVolume
     MarketValidation.validateFundamentals(fundamentalAnalvsis.metrics),
     new Date().toISOString()
    );
    return {
      technical Analysis.
      fundamentalAnalysis,
```

#### /Users/abdulazizdot/Desktop/customer-suppaget-4agefnt4/app/services/MarketAnalysisService.ts

```
sectorAnalysis,
      risks,
      sentiment.
      quality
  } catch (error) {
    console.error('Error in market analysis:', error);
    throw error;
// Helper Methods for Technical Analysis
private static calculateMovingAverages(data: any) {
    sma50: this.calculateSMA(data.timeSeries?.values | | [], 50),
    sma200: this.calculateSMA(data.timeSeries?.values | | [], 200),
    ema20: this.calculateEMA(data.timeSeries?.values | [], 20)
private static calculateMomentumIndicators(data: any) {
  return {
    rsi: this.calculateRSI(data.timeSeries?.values | | []),
   macd: this.calculateMACD(data.timeSeries?.values | []),
   momentum: this.calculatePriceMomentum(data.timeSeries?.values | [])
// Helper Methods for Fundamental Analysis
private static calculateKevMetrics(fundamentals: anv) {
  return (
   profitability: {
     grossMargin: fundamentals.metrics?.profitability?.gross_margin || 0,
      operatingMargin: fundamentals.metrics?.profitability?.operating_margin | 0,
     netMargin: fundamentals.metrics?.profitability?.net_margin | 0,
    efficiency: {
     assetTurnover: fundamentals.metrics?.efficiency?.asset_turnover |  0,
     inventoryTurnover: fundamentals.metrics?.efficiency?.inventory_turnover | 0,
    liquidity: {
      currentRatio: fundamentals.metrics?.liquidity?.current_ratio | | 0,
      quickRatio: fundamentals.metrics?.liquidity?.quick_ratio | | 0,
   }
 };
// Helper Methods for Sentiment Analysis
private static determineSentiment(score: number): 'bullish' | 'bearish' | 'neutral' {
  if (score > 2) return 'bullish';
  if (score < -2) return 'bearish';</pre>
  return 'neutral';
private static calculateSentimentConfidence(factors: string[]): number {
 return Math.min(factors.length * 0.2, 1);
// Additional helper methods would go here...
```

## /Users/abdulazizdot/Desktop/customer-suppaget-lagefnt2/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-lagefnt/lib/utils.ts

```
import { type ClassValue, clsx } from "clsx";
import { twMerge } from "tailwind-merge";
export function cn(...inputs: ClassValue[]) {
 return twMerge(clsx(inputs));
export function formatNumber(
  value: number,
  currency?: string,
 compact = false
): string {
  if (typeof value !== "number" || isNaN(value)) {
    return "N/A";
  const formatter = new Intl.NumberFormat("en-US", {
   style: currency ? "currency" : "decimal",
currency: currency === "SAR" ? "SAR" : undefined,
notation: compact ? "compact" : "standard",
    maximumFractionDigits: 2,
  const formattedValue = formatter.format(value);
  if (currency === "%") {
    return `${formattedValue}%`;
  return formattedValue;
```

# /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;
```