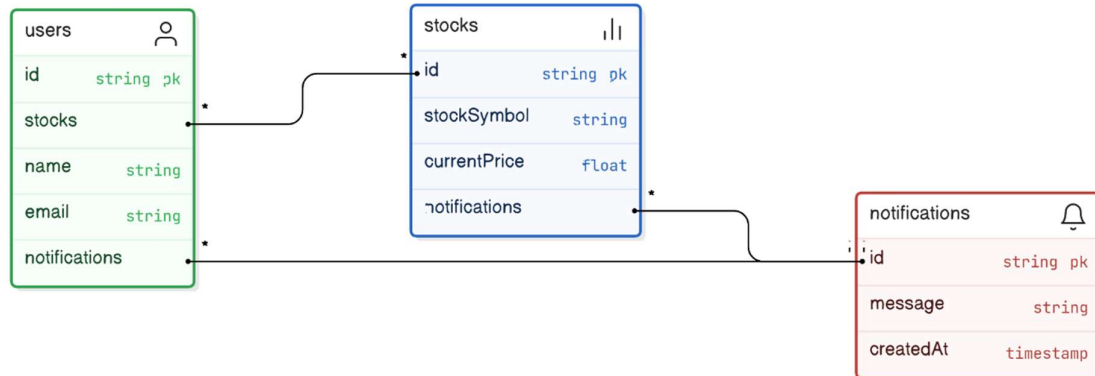# TradeCraft – Entity – Relationship Diagram

TraderCraft - Stock Portfolio Management System

DATABASE SCHEMA

CREATE TABLE Stocks (

  id VARCHAR PRIMARY KEY,

  stockSymbol VARCHAR NOT NULL,

  currentPrice FLOAT NOT NULL,

  name VARCHAR NOT NULL

);

CREATE TABLE Users (

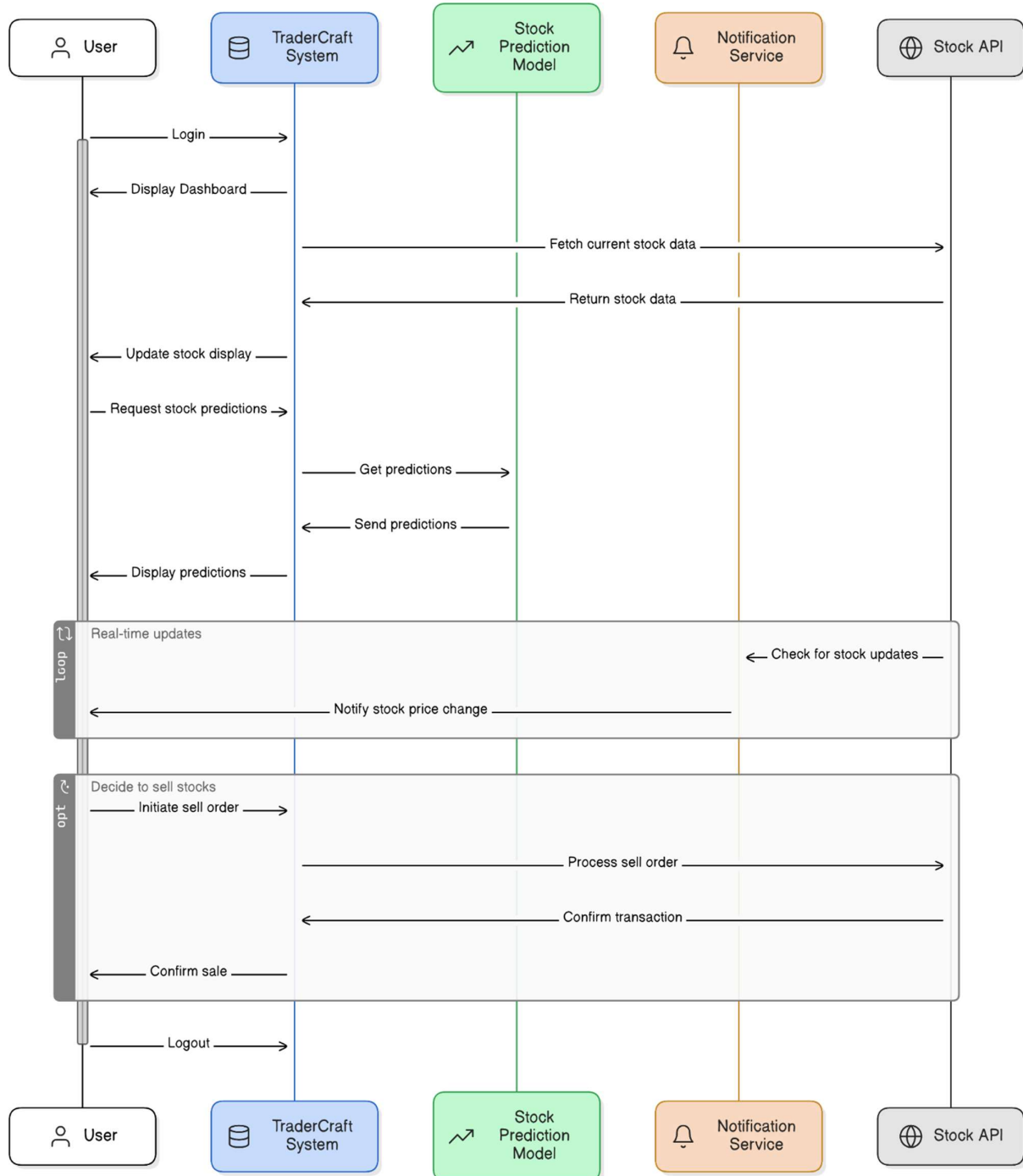 id VARCHAR PRIMARY KEY,

  email VARCHAR NOT NULL

);

CREATE TABLE Notifications (

  id VARCHAR PRIMARY KEY,

  message VARCHAR NOT NULL,

  createdAt TIMESTAMP NOT NULL

);

```sql
CREATE TABLE UserStocks (
  userId VARCHAR NOT NULL,
  stockId VARCHAR NOT NULL,
  PRIMARY KEY (userId, stockId),
  FOREIGN KEY (userId) REFERENCES Users(id),
  FOREIGN KEY (stockId) REFERENCES Stocks(id)
);

CREATE TABLE UserNotifications (
  userId VARCHAR NOT NULL,
  notificationId VARCHAR NOT NULL,
  PRIMARY KEY (userId, notificationId),
  FOREIGN KEY (userId) REFERENCES Users(id),
  FOREIGN KEY (notificationId) REFERENCES Notifications(id)
);
```
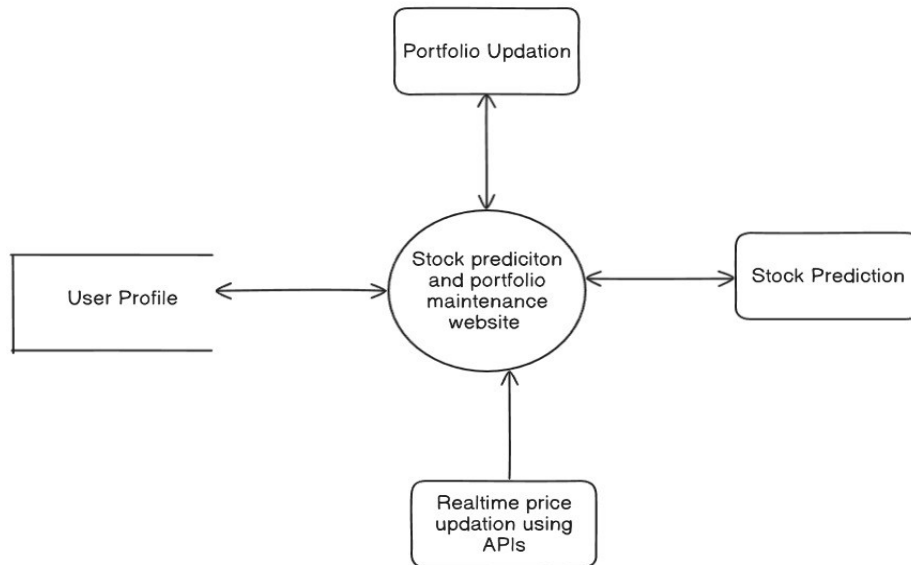
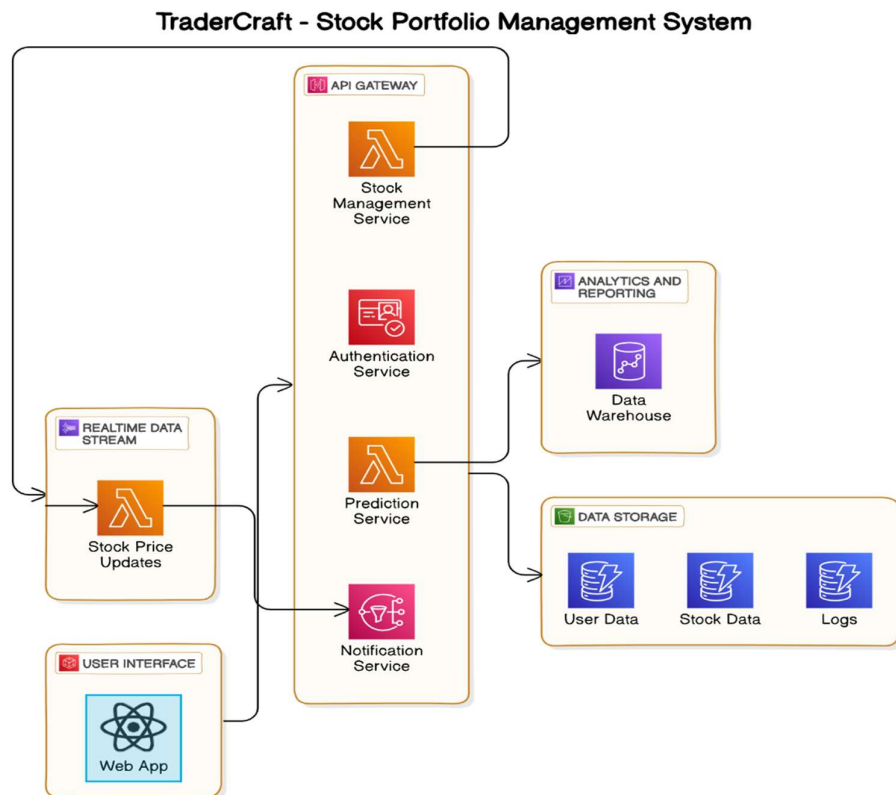# TradeCraft – Interaction (Sequence) Diagram

TraderCraft - Stock Portfolio Management

TradeCraft – Control Flow Diagram

TradeCraft – Cloud Architecture

TradeCraft – Use Case Diagram

TradeCraft - Stock portfolio management and prediction system

ADMIN

USER

Login/Create Account

<<include>>

Enter Profile Details

Create Portfolio

Update Portfolio

Mange/Update Portfolio

Notification manger

<<include>>

Subscribe to Realtime Stock Prices

Mobile/ WhatsApp Service

Email Service

Stock Prediction (Based on portfolio)

Delete User