



Group 7

ISTOCK

All team members contribute equally

# System Block Diagram

HTML, CSS, JavaScript

Yhoo Finace API

Java (timer threads)  
Backstage



JDBC

Database



MySQL

mysqli

PHP  
Server



Web Client

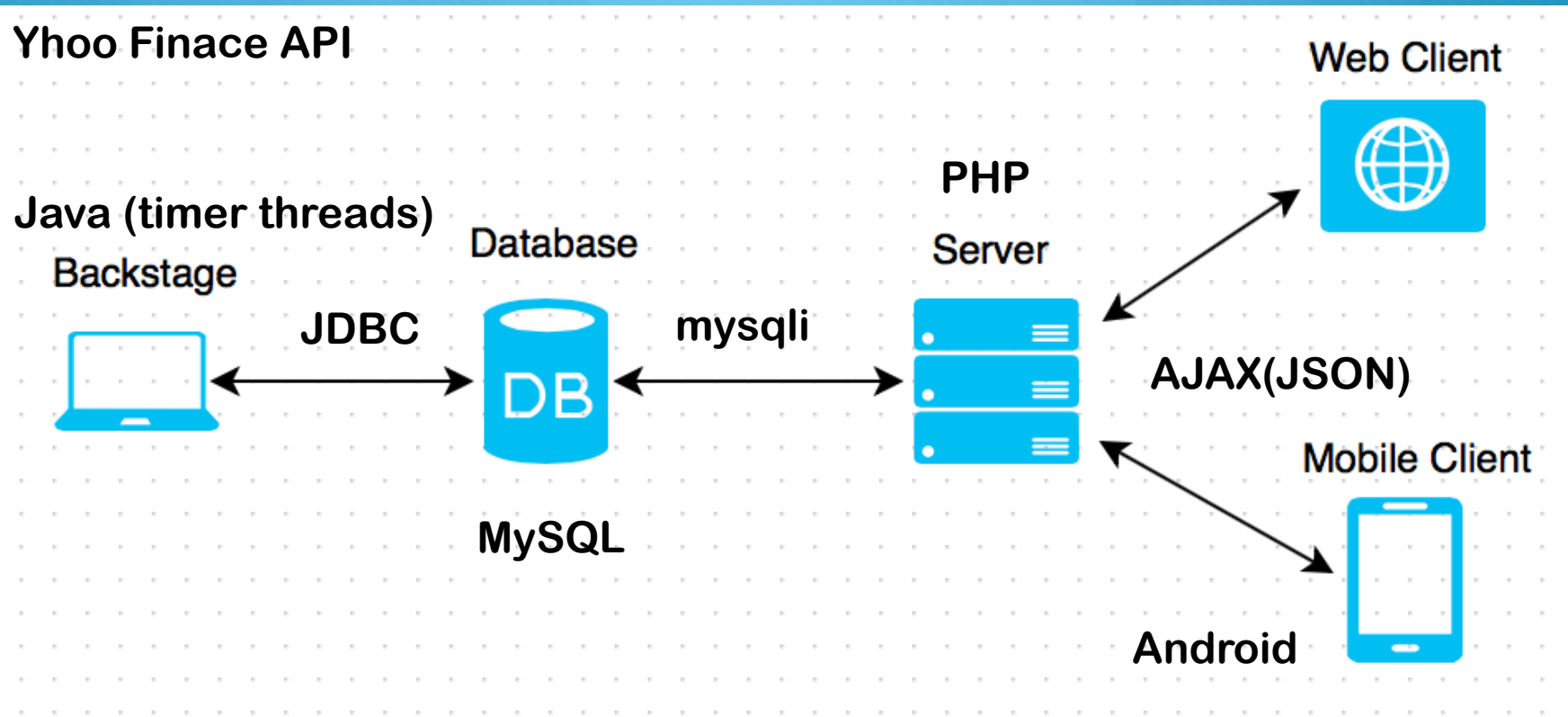


AJAX(JSON)

Mobile Client



Android



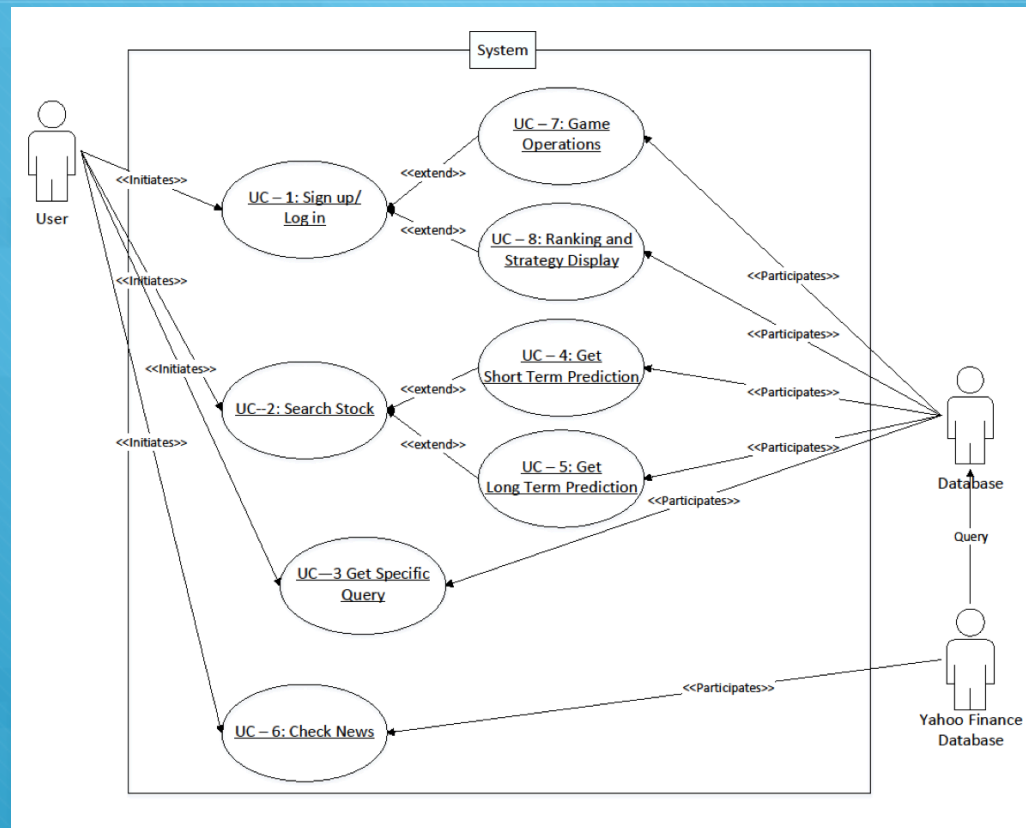


# Programming Tech & Source

- Programming Technologies
  - LAMP (Linux, Apache, MySQL, PHP) Stack
  - Java for heavy workloads running in background
    - JDBC
  - PHP in server side responses user's requests
    - AJAX, JSON instead of XML
  - Web client (HTML5, CSS3, jQuery), android client
- Web Source: Yahoo Finance (stock price, news)



# Use cases





# Prediction & Features

- Prediction Strategies:

- Short Term: Bayesian, STS, SVM (SVR), ANN

- Feature dimension: 4 historical data

- Latest model example: 10

- Long Term: Bayesian, STS, MACD(EMA)

- Special Features:

- Strategies evaluation and comparison

- News, Twitter, stock information

- Virtual Stock Exchange: operations, record, action recommendation, AI





# Service Interface

- Press link to see different classified pages
- Press button to select stock
- Drag stock chart to change the time range
- Point stock chart to see values
- Fill forms to achieve stock exchange operations



# Achieve Tasks

- ◊ Show by live demo!