REQUIREMENT IDENTIFICATION

SYSTEM OVERVIEW

The Share Price Comparison Web Application allows a user to retrieve past share prices for companies and compare them over a selected period.
The aim of the first sprint is to establish the structure of the system and show how the main parts will work together, rather than building a full graphical interface.

The system is intended to:

- Retrieve daily share price history

- Save the data locally so it can be reused

- Compare two companies

- Prepare the data so it can later be shown as a graph

FUNCTIONAL REQUIREMENTS

The system shall:

1. Allow a user to enter a valid share symbol.

2. Retrieve daily share prices between two chosen dates (maximum range two years).

3. Save retrieved share price data locally.

4. Allow stored data to be accessed without an internet connection.

5. Provide data that can be displayed as a graph.

6. Allow two companies to be compared in the same request.

NON-FUNCTIONAL REQUIREMENTS

The system must:

- Keep user interaction, processing logic, and data storage separate

- Be easy to maintain and understand

- Handle up to two years of daily price data efficiently

- Keep stored data accurate and available after saving

SYSTEM SCOPE

In Scope

- Retrieving share price history

- Saving data locally

- Comparing two companies

- Basic input checking

Out of Scope

- Live real-time data updates

- User login or account management

- Advanced financial analysis

- Detailed visual styling

ASSUMPTIONS

- A financial data API will be available

- The API provides reliable daily closing prices

- Users enter valid stock symbols

CONSTRAINTS

- Date range limited to two years

- Developed in Java

- Must demonstrate architectural design principles

- Implemented across three sprints

Out of Scope