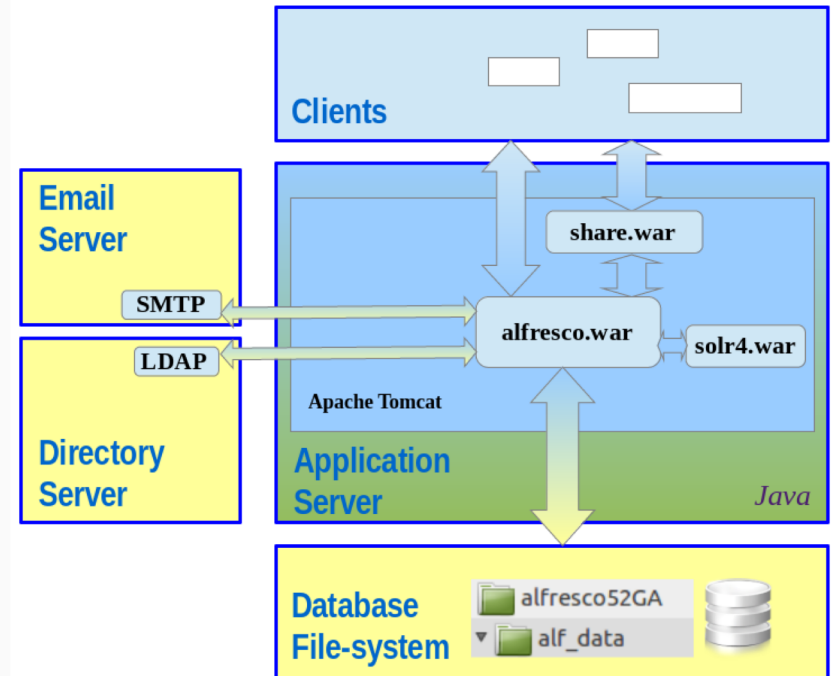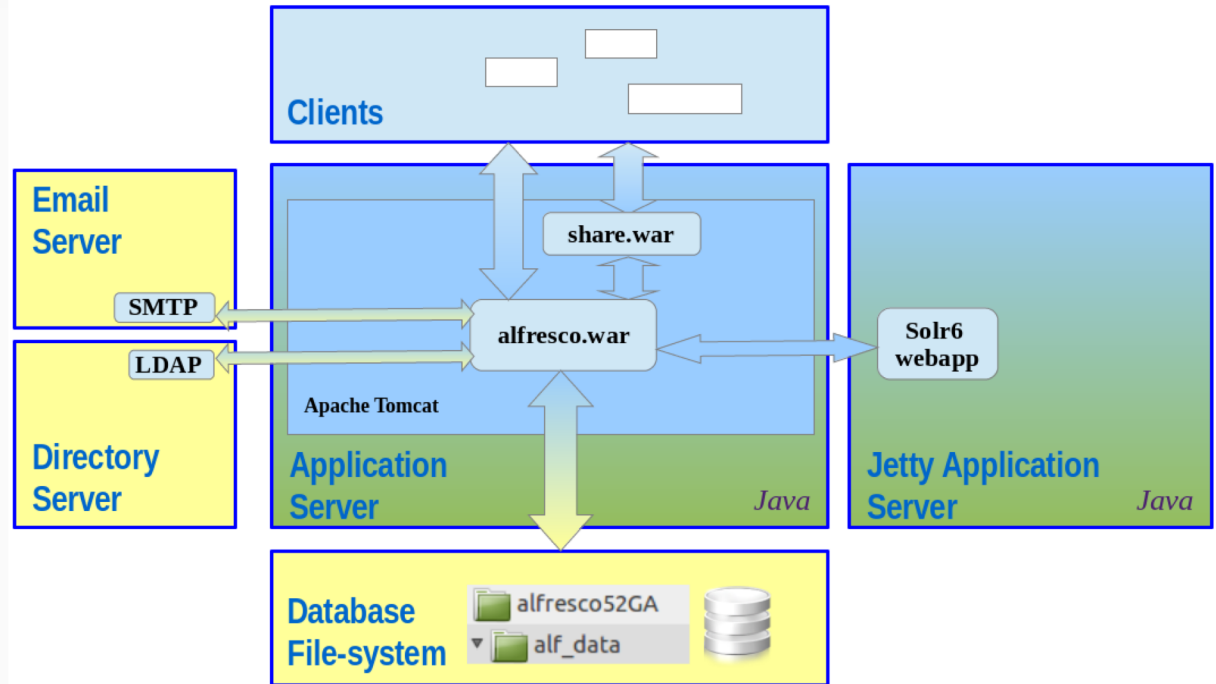# Alfresco Architecture

Overview

Servers and Apps

- The Alfresco Platform is built up of a number of web applications
- These web applications runs in an application server such as Apache Tomcat, which runs in a Java Environment
- Alfresco Web Applications:
    - **alfresco.war** – the repository
    - **solr4.war** – the search application
    - **share.war** – the main user interface
- Enterprise Application Integration:
    - The Alfresco application talks to other enterprise servers such as Directory and Email servers
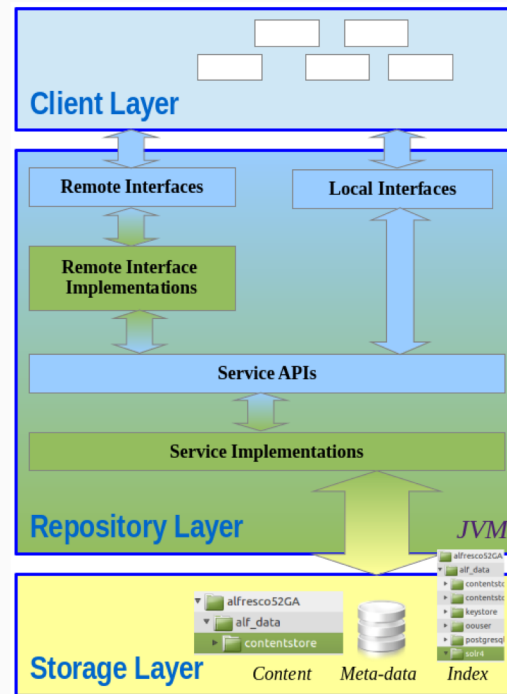
Servers and Apps continued

- If Solr 6 is used, then the search server lives outside of the Alfresco Server
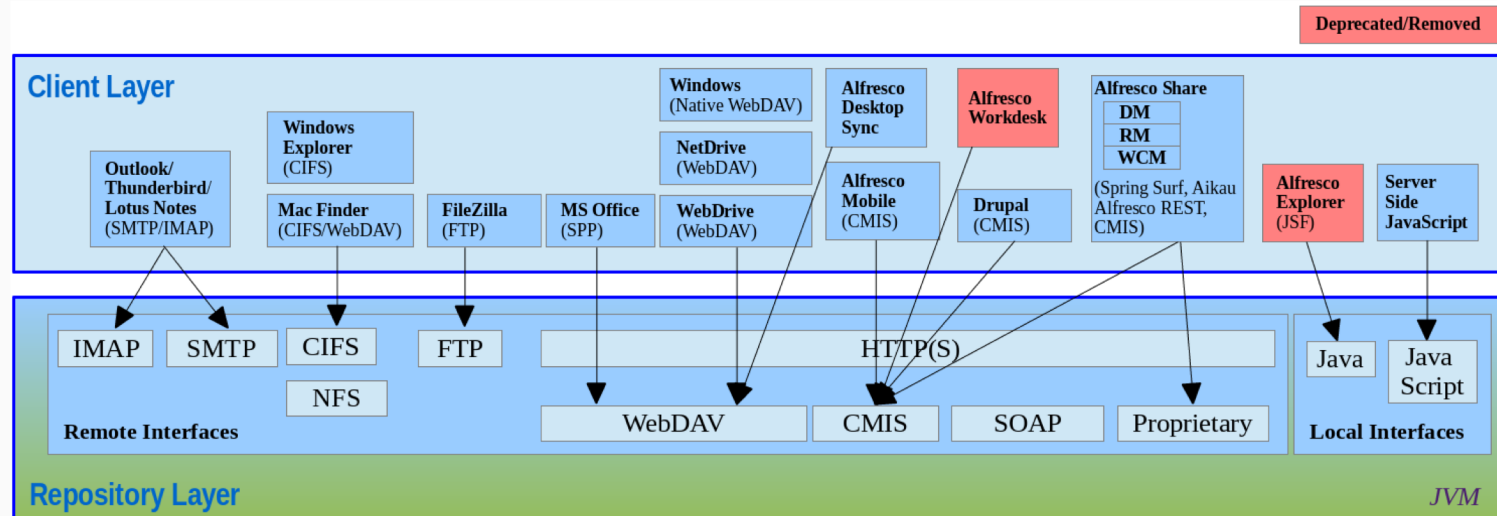
Layered Architecture

- Client layer
  - UI Clients (share.war etc), Tools, Applications
- Repository layer
  - alfresco.war, solr4.war
  - The Repository layer provides a multitude of Interfaces and Service APIs through which clients can connect
  - It also provides all the service Implementations for the service APIs
- Storage Layer
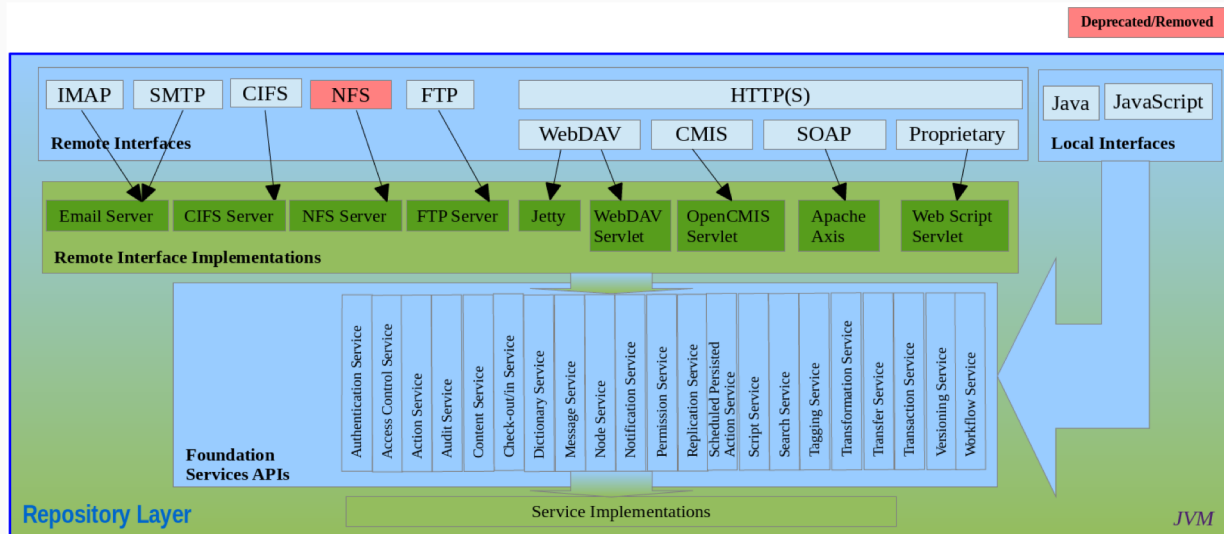 - As the name suggests this would be where all the data will be stored

Client Layer

- The client layer consists of all the client applications (UI) that talks to Alfresco via the Remote Interfaces and Service APIs:
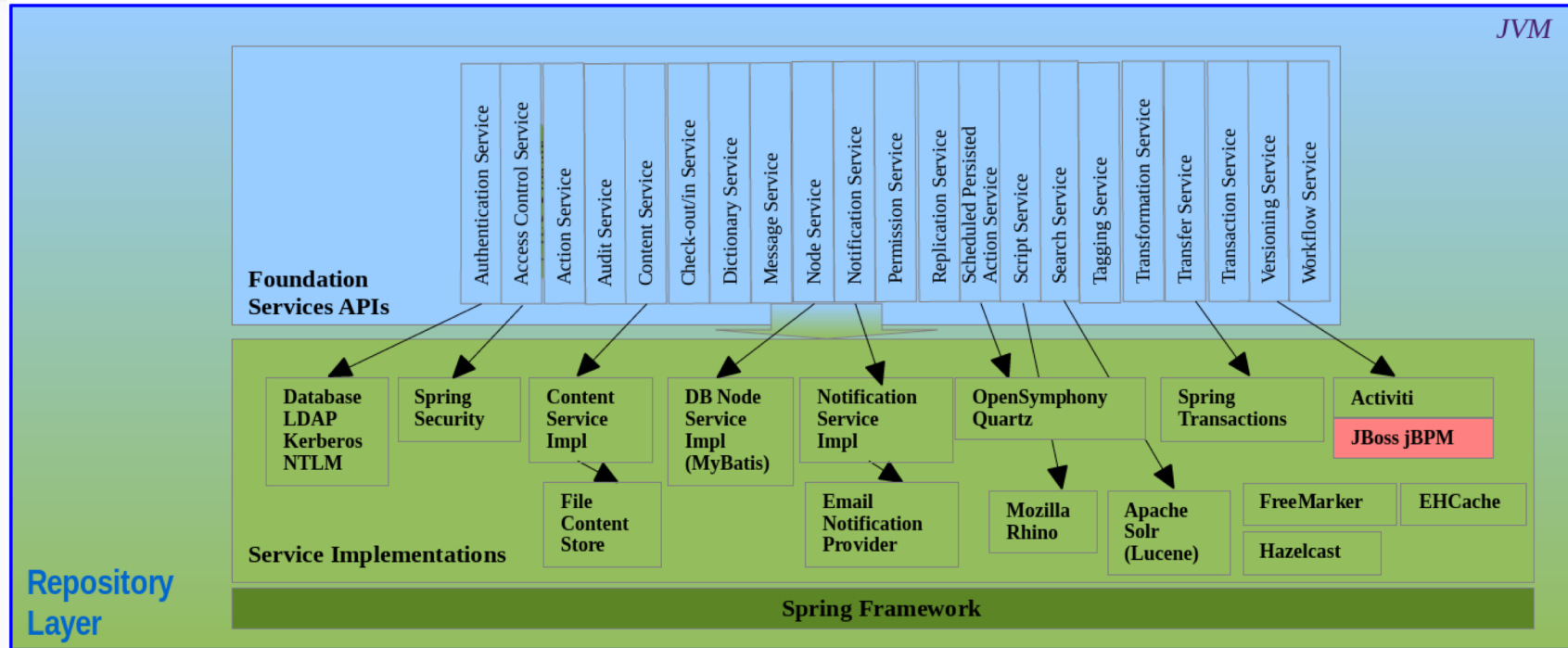
Repository Layer – Service Interfaces

- Each one of the internal Servers or Servlets that the client applications talk to uses the Public Service interface to manage content:
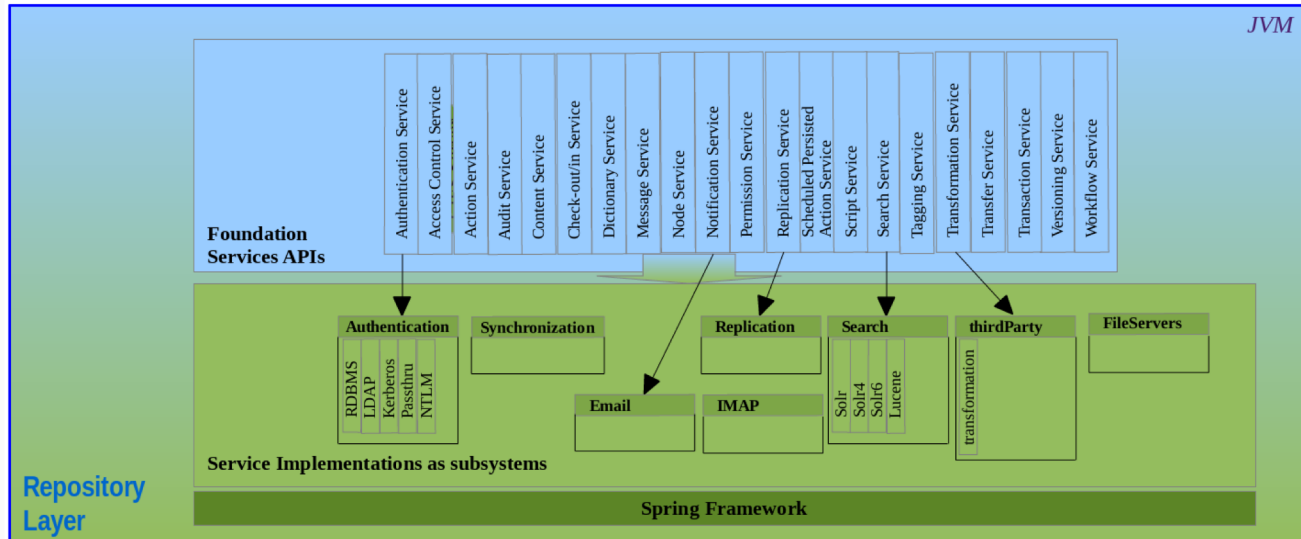
Repository Layer − Service Implementations

Repository Layer – Subsystems

- Some of the services are implemented as subsystems, which gives greater control over them:

Repository Layer – Subsystems continued

- Subsystems are configurable modules responsible for a piece of functionality in the Alfresco content management system
- A subsystem can be thought of as a mini-server that runs embedded within the main Alfresco server
- A subsystem has the following characteristics:
- It can be started, stopped, and configured independent of the Alfresco server
- It has its own isolated Spring application context and configuration

Storage Layer

- The Public Service Implementations talk to the database and the file system in the Storage Layer: