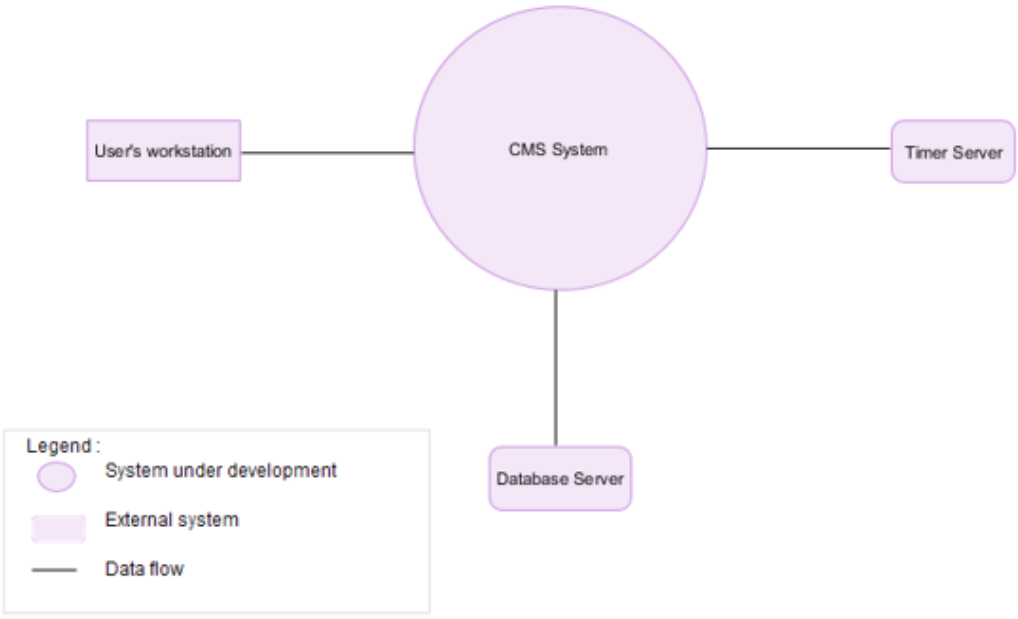
Iteration 1: Establish Overall System Structure

Step 2: Create an Overall System Structure

Section will record the outcome of iteration 1 for the CMS following the ADD procedure.
Where as the goal is to create an overall system structure and the inputs for this iteration will be everything.

Step 3: Entire system has been chosen to decompose
Since in this iteration the entire system has to be constructed, everything has to be decomposed.



Step 4: Selection of design concepts

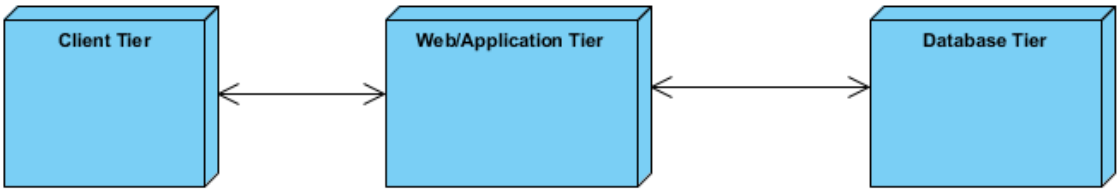
Design Decision	Rationale
Use a Web user interface	This system provides easy access
Follow the Rich internet application as a reference architecture	Rich internet application will help the system load faster as well as prevent the system to have no or downtime at most 4 hours/month
Physically structure the application using the 3-tier deployment system	3-tier deployment system provides better security

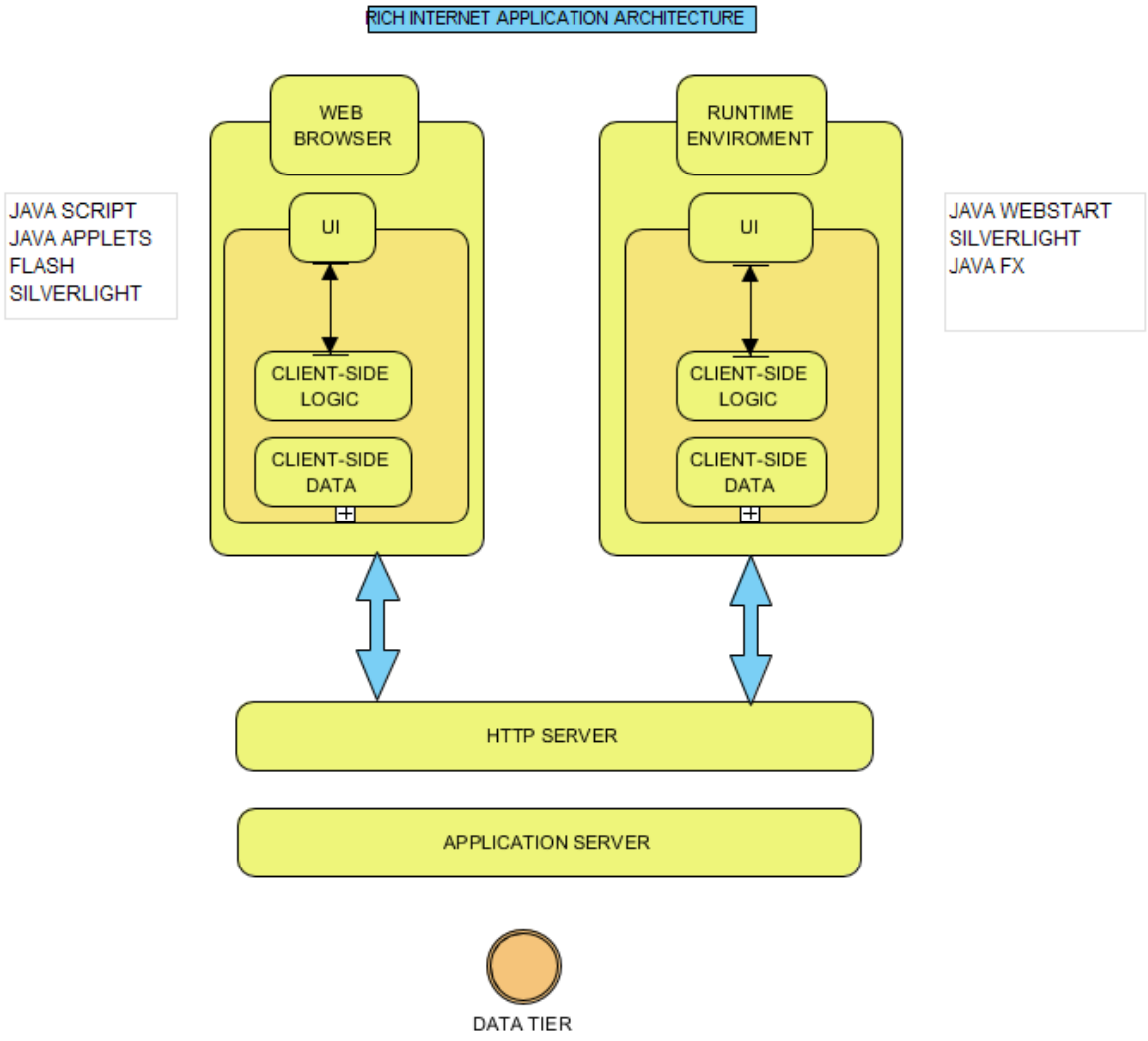
Use extended relational database structure	It is a simple structure that is easy to work with and content could be available after 3 clicks
Use Swim Java framework along with other Java technologies	Swim Java framework provides an additional support to the system

Step 5: Define elements, responsibilities, and, interfaces

Elements	Responsibility	Properties	Interface
Web server	Hosts the interactive part of the application	The portal through which the user access the system	N/A
Authentication server	Manages user and permissions for multiple user	Existing server (part of web/ application tier)	N/A
Interactions	The interactions that occur in the server	User friendly UI, and focuses on accessibility.	N/A
Security Portal	Login portal to hold privacy of the system	Highly effective, with fail safe option.	N/A
Data Server	Server which gives information to the web server	Should be secure, and accessible at all times.	N/A

Distributed 3 tier-ed deployment patter




RICH INTERNET APPLICATION ARCHITECTURE
WEB BROWSER
UI
CLIENT-SIDE LOGIC
CLIENT-SIDE DATA
RUNTIME ENVIROMENT
UI
CLIENT-SIDE LOGIC
CLIENT-SIDE DATA
JAVA SCRIPT
JAVA APPLETS
FLASH
SILVERLIGHT
JAVA WEBSTART
SILVERLIGHT
JAVA FX
HTTP SERVER
APPLICATION SERVER
DATA TIER