Pharmaceutical Industry Management – Project Scenario Definition

1.	**Name of the Project**	Pharmaceutical Industry Management
2.	**Objective/ Vision**	A Pharmaceutical Industry wants to automate its customer (other companies) facing services online and also wants to systematize its internal workings which includes detailed product requirements, employee information, batch wise records and warehouse stocks. It also desires to restructure its current day-to-day activities/processes in order to modernize the working environment for better performance and more efficiency.
3.	**Users of the System**	A. Vendors or customer B. Employees (Workers/Chemist) C. Transportation crew D. Administrators / Managers
4.	**Functional Requirements**	I. User A can place order for any product online in bulk which can be delivered to their doorstep once they register. II. User A can check availability and price of any medicines/raw materials/intermediate products. III. User D can check information about the stock of raw materials available and place order if it decreases below certain level. IV. User D can also manage User B's track records, personal information and attendance. V. User B can assign task to Transportation Crew for delivery to User A. VI. Both user A and D can access 'live tracking' information once the product is dispatched and shipped. VII. Some of user B and all of user A can save, modify and delete batch wise records online if they have clearance. VIII. Administrator can grant and revoke various authorities' to/from users. He also wants to be able to view activities of all users through logs.

5.	**Non-functional requirements**	• Secure access of confidential data (user's details). SSL can be used. • User friendly design (keeping in mind all users are older than 30) and simple to use layout. • 24*7 availability as some users also might be from Germany and Japan. • Different widely spoken language options (especially French). • Flexible service based architecture will be highly desirable for future extension
6.	**Optional features**	• Java based client for User A • Web-services based architecture to integrate other pharmaceutical industries • Customizable color scheme or skins
7.	**User interface priorities**	A. Professional look and feel B. Use of AJAX if applicable C. Use of Graphical tool like Tibco- JASPERsoft for analytics D. Reports, orders and bills exportable in .XLS, .PDF or any other desirable format
8.	**Reports**	A. Different types of reports regarding sales and manufacture. B. Different types of reports on daily, monthly, weekly, annual basis, date range and type of interaction. C. Market research reports on profitable products which can be manufactured using in-house expertise and available resources. D. weekly reports on all production components like vessels, reactors, chilling tower and storage units for safety purposes.
9.	**Other important issues**	Website should be highly customizable and flexible enough to easily deploy changes like adding new functionalities/tools. It should also be able to accommodate changes in economy like new tax structures or import/export details.
10.	**Team Size**	4

11.	**Technologies to be used**	J2EE, XML, AJAX, Web 2.0, Web-services, SOA, PHP, Database Management Systems and any other Open Standards
12.	**Tools to be Used**	• Rapid Application Development model • RSA Cryptosystem • Java-Eclipse/ IBM-Web Sphere Studio Application Developer/ WAS • DB2 Express – 'C' or My SQL Server • Linux will be the preferred OS.
13.	**Final Deliverable must include**	A. Online help to above said users, application deployment executive and developer B. Bug free application archive (.war/.ear) with source code C. Database backup and DDL Script D. Software user manual