Installation and configuration

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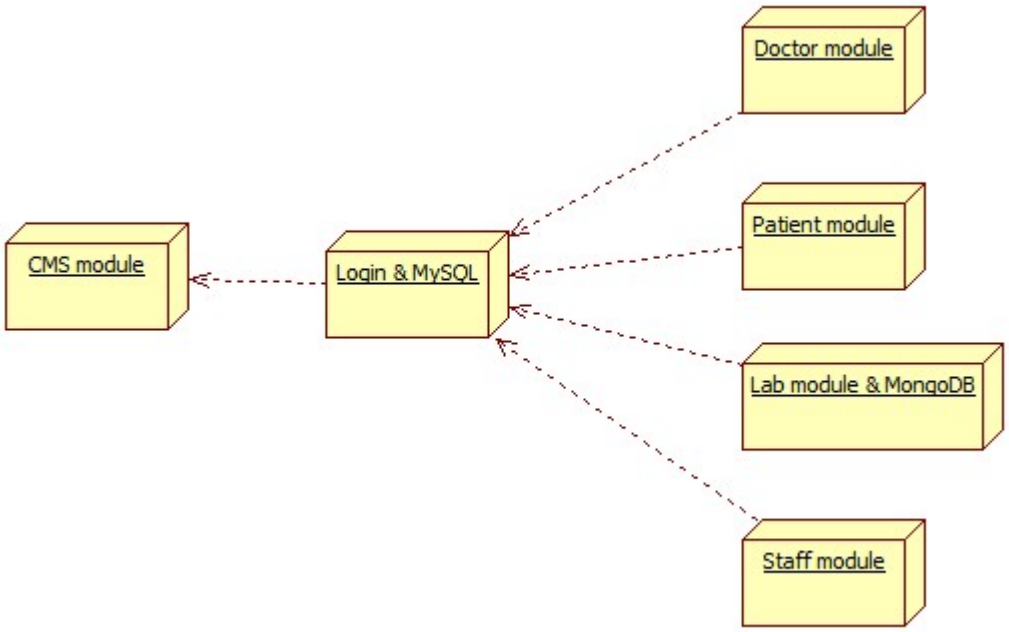
1.1 Modules and dependencies:



1.2 Setting up an amazon instance as a webserver:

1) Launching an amazon instance (Create a **Microsoft Windows Server 2012 R2 Base** AMI)
   a) Please refer this link for the steps
   http://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/EC2Win_GetStarted.html
   Note: In Security group while configuring allow these ports: HTTP (8080), MYSQL (3306) and enable all traffic.

2) Establish a remote desktop connection to the amazon instance launched as given in the above link.

3) Setting up the apache server and deploying WAR file on windows EC2 instance:
   a) Download JDK 8 available at http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html
   b) Download apache tomcat 8 available at http://tomcat.apache.org/download-80.cgi
   c) Run JDK 8 and tomcat 8.
      Note: Don't forget to give username and password for the access of manager page while doing the Installation.
   d) Go to the internet explorer, type http://localhost:8080/manager and scroll down to find the option to deploy the WAR file onto the apache tomcat server.

1.3 Setting up a local machine as a webserver:
(Local test setup with all modules on one machine)

1) Setting up the apache server and deploying WAR file on local windows machine:
   a) Download JDK 8 available at http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html
   b) Download apache tomcat 8 available at http://tomcat.apache.org/download-80.cgi
   c) Run JDK 8 and tomcat 8.
      Note: Don't forget to give username and password for the access of manager page while doing the Installation.
   d) Go to the internet explorer, type http://localhost:8080/manager and scroll down to find the option to deploy the WAR files onto the apache tomcat server.

1.4 Setting up MYSQL:
   a) Download MYSQL installer available at http://dev.mysql.com/downloads/installer/
   b) Load the provided database schema file 'clinic_db_main.mwb' and '*.sql' files.
   Note: configure a user 'root' with no password for the database instance.

1.5 Setting up Mongo DB:

a) Download Mongo DB installer available at https://www.mongodb.org/downloads
b) Install Mongo DB and Set path.
c) Set the Data path for storing the database (db). Ex: D:/data/db
d) Import the give database to the data path

1.6 Configurations:

1.6.1 Distributed setup with Amazon EC2 instances:

   a) Deploy DoctorWS.war, LoginModule.war, PatientWS.war, CMSWebApp.war on your local machine.

   b) Go to the web browser, type http://localhost:8080/CMSWebApp/front.jsp

Module	Node type	IP address	Port
CMS	Your local machine	localhost	8080
Login	Your local machine	localhost	8080
Patient	Your local machine	localhost	8080
Doctor	Your local machine	localhost	8080
Lab Assistant	Amazon instance (EC2)	54.69.208.233	8080
Staff	Amazon instance (EC2)	54.148.100.126	8080
MySQL	Your Local machine	localhost	3306
MongoDB	Your Local machine	localhost	27017

1.6.2 Local test setup with on your local machine:

a) Deploy DoctorWS.war, LabAsstModule.war, LoginModule.war, PatientWS.war, StaffModule.war, CMSWebApp.war on your apache tomcat server.

b) Go to the web browser, type http://localhost:8080/CMSWebApp/front.jsp

Module	Node type	IP address	Port
CMS	Your local machine	localhost	8080
Login	Your local machine	localhost	8080
Patient	Your local machine	localhost	8080
Doctor	Your local machine	localhost	8080
Lab Assistant	Amazon instance (EC2)	localhost	8080
Staff	Amazon instance (EC2)	localhost	8080
MySQL	Your Local machine	localhost	3306
MongoDB	Your Local machine	localhost	27017