Appendix B The Procedure for Installing AppServ and Applying in Database for ADRs 1. Download AppServ program from http://www.appservnetwork.com/.

2. Double click appserv-win32-x.x.x.exe to install AppServ on computer.

3. AppServ distribution under GNU/GPL License. Installer has to read license agreement before install. If agree for the license click I Agree to go to next step. If do not agree click Cancel to revoke installation (Figure B.1).

🛃 AppServ 2.5.7 Setup		
	License Agreement Please review the license terms before installing AppServ	2.5.7.
Press Page Down to see I	the rest of the agreement.	
GNU LESSER Version 2.	GENERAL PUBLIC LICENSE 1, February 1999	-
Copyright (C) 1991, 199 59 Temple Place, Suit Everyone is permitted to of this license document	99 Free Software Foundation, Inc. e 330, Boston, MA 02111-1307 USA o copy and distribute verbatim copies ;, but changing it is not allowed.	
[This is the first released as the successor of the the version number 2.1.	l version of the Lesser GPL. It also counts GNU Library Public License, version 2, hence .]	•
If you accept the terms o agreement to install AppS	of the agreement, click I Agree to continue. You must accept t Serv 2.5.7.	he
Nullsoft Install System v2,19	·	
	< <u>B</u> ack I <u>A</u> gree C	ancel

Figure B.1 GNU/GPL license agreement screen

4. Choose install location. AppServ default location is C:AppServ. If installer needs to change destination, click Browse button to change destination for AppServ program and then click Next to go to next step (Figure B.2).

🛃 AppServ 2.5.7 Setup	
	Choose Install Location Choose the folder in which to install AppServ 2.5.7.
Setup will install AppServ 2 Browse and select another	.5.7 in the following folder. To install in a different folder, click folder. Click Next to continue.
Destination Folder	Browse
Space required: 48.8MB Space available: 5.5GB	
Nullsoft Install System v2,19 -	< Back Next > Cancel

Figure B.2 Choose install location screen

5. Select components to install. AppServ has checked all package components by default. If installer needs to choose some package to install, click at check box. When complete choosing package components, click Next to go next step (Figure B.3).

🛃 AppServ 2.5.7 Setup	
	Select Components Select the components you want to install, clear the components you do not want to install.
AppServ Package Com	ponents
🔽 Apache HTTP Se	rver
🔽 MySQL Database	
PHP Hypertext P	reprocessor
🔽 phpMyAdmin	
Nullsoft Install System v2.19 -	
	< Back Next > Cancel

Figure B.3 Choose package components screen

6. This step is for specifying Apache configuration. Installer has to fill server name as localhost (Figure B.4).

🛃 AppServ 2.5.7 Setup	
Apache HTTP Server Information Please enter your server's information.	
Server Name (e.g. www.appservnetwork.com)	
Administrator's Email Address (e.g. webmaster@gmail.com)	
root@appservnetwork.com	
Apache HTTP Port (Default : 80)	
Nullsoft Install System v2,19 < Back Next >	Cancel

Figure B.4 Apache web server configuration screen

7. This step is for MySQL configuration. Installer has to define root password for MySQL database (Figure B.5). Click Install and wait for program installation.

AppServ 2.5.7 Setup			
MySQL	MySQL Server Configu Configure the MySQL Server	ration ver instance.	
Please enter Root pass	word for MySQL Server.		
Enter root password	l .		
•••••			
Re-enter root passv	ord		
•••••			
MySQL Server Set Character Sets a UTF-8 Unicode Old Passwor Enable Innot	ting and Collations d Support (PHP MySQL API f 08	unction.)	
Nullsoft Install System v2,19 -			
	< B	ack Install	Cancel

Figure B.5 MySQL Database configuration screen

8. Click Finish to end the setup and AppServ is then ready to be used. Check whether installation is complete by typing localhost in web browser (Figure B.6).

Collocalhost	⊽ C ⁱ
The AppServ Open Project - 2.5.10 for Windows	
🎎 phpMyAdmin Database Manager Version 2.10.3	
PHP Information Version 5.2.6	
About AppServ Version 2.5.10 for Windows	
AppServ is a merging open source software installer package for Windows includes :	
Apache Web Server Version 2.2.8	
PHP Script Language Version 5.2.6	
MySQL Database Version 5.0.51b	
 phpMyAdmin Database Manager Version 2.10.3 	
ChangeLog	
README	
AUTHORS	
• COPYING	
Official Site : http://www.AppServNetwork.com	
Hosting support by : http://www.AppServHosting.com	
Change Language : 🚃 🛒	
📂 Easy way to build Webserver, Database Server with AppServ :-)	

Figure B.6 Ready to use AppServ in web browser screen

9. Click phpMyAdmin Database Manager Version 2.10.3 to login MySQL as root with username and password in step 7.

10. Create new database with the name db4adr (Figure B.7).



Figure B.7 Create new database named db4adr screen

11. Import .sql file which is the data extracted from data.zip into the database named db4adr (Figure B.8).

Iocalhost/ph	npMyAdmin/ v X S- Google
Ĩ	영 Server: localhost > @ Database: db4adr 중 Structure 굶 SQL ② Search @Query @Export @Import % Operations @ Privileges ※Drop
phpMyAdmin	
🚮 🔛 💀 🔍	Import
Database	File to import
db4adr (0) 👻	Location of the text file Browse db4adr.sql (Max: 81,920KiB)
db4adr (0)	Character set of the file: utf8 Imported file compression will be automatically detected from: None, gzip, zip
No tables found in	Deticionat
uatabase.	✓ Allow interrupt of import in case script detects it is close to time limit. This might be good way to im Number of records(queries) to skip from start 0
	 Format of imported file SQL SQL
	SQL opports SQL compatibility mode ©

Figure B.8 Import .sql file into db4adr database screen

12. The next step is to add a user and define the access. In home page, select Privileges and Add a new user. Then enter the information as shown in Figure B.9.

💰 Add a new User		
Login Information		4
User name:	Use text field: -	user
Host:	Use text field: -	localhost
Password:	No Password -	
Re-type:		
Generate Password:	Generate Copy	
 None Create database with Grant all privileges or 	n same name and grant all p n wildcard name (username)	rivileges _%)
Global privileges (Check	k All / Uncheck All)	
Note: MySQL privilege name:	s are expressed in English	
Data St	ructure	Administration

Figure B.9 Add information and privilege for a new user screen

13. The next step is to place the source code for web page. Put db4adr folder that is extracted from web_code.zip into www folder inside AppServ directory. Make sure that the Database for ADRs works properly on web browse by typing localhost/db4adr (Figure B.10).

S S 🤮 <<< Welcome to Da	stabase For × +			
localhost/db4adr/		▼ C B - Google	ዖ 🕹 🏫	1 合 自 🖸
	Database for Adverse	Drug Reactions	5	
	16 June 2014, 2:10 am	BIF SBT SIT	KMUTT	
	HOME SEARCH	BROWSE HELP		
	Welcome to Database for Adv	erse Drug Reactions		
	About Database for Adverse Drug Reaction			
	Database for Adverse Drug Reaction is a comprehensive information of Adverse drug reaction-Drug-Protein relation linkage of three associations. First is the associations of Dru the associations of Adverse drug reaction and Drug from Ca Database. Lastly is the associations of Adverse drug rea- literature mining approach. In addition, drugs are predicted drug meeting from their american comparison of the associations of the associations of the pro- duct of the second second second second second second second drug meeting from the second second second second second second drug meeting from the second second second second second second drug meeting from the second second second second second second drug meeting from the second second second second second second second drug meeting from the second second second second second second second drug meeting from the second second second second second second second drug meeting from the second second second second second second second second drug meeting from the second second drug meeting from second sec	database that is designed to provide iships. These relationships come from g and Protein from DrugBank. Secong anada Vigilance Adverse Reaction Onl action and Protein from PubMed us d how much they possibly cause adve a date mixed.	the the 1 is ine ing prse	

Figure B.10 The appearance of proper Database for ADRs

Note: Also, check the file named StartConnect.inc (Figure B.11) which is located at C:\AppServ\www\db4adr and has the code to connect to MySQL Database. It has to have the same username and password that are defined in step 12. StartConnect.inc also has to be altered with corresponding manner if there is any change in MySQL configuration: server name, database name, username, or password.

</th
set_time_limit(0);
<pre>\$ServerName = "localhost";</pre>
\$DatabaseName = "db4adr";
\$db = new mysqli('localhost', 'user', '', 'db4adr');
\$User = "user"; \$Password = "";

\$Conn = mysql_connect(\$ServerName,\$User,\$Password) or die("Could not connect to server"); \$DB = mysql_select_db(\$DatabaseName,\$Conn) or die("Could not connect to DB");

?>

Figure B.11 StartConnect.inc source code