Installation Guideline

The product is a web-based voice booking system which is using PHP5, MySQL, and JQuery. To install the product, the user will need an apache server and MySQL database.

You must build an environment of PHP5 plus MySQL plus Apache. The following steps will allow you to deploy the project into a EC2 server. If you are familiar with EC2, you can do it by you own way, however if you are new to EC2, please follow the following steps:  
  
Firstly, it is recommended to have the applications of cmder, PuTTYgen and WinSCP pre-downloaded onto the device you are planning to deploy from.

Creating EC2 instance

1. Create an AWS account
2. Select EC2 on console and select launch instance
3. Select Ubuntu server 13.10 as the AMI
4. Leave the instance type as default and click next
5. Keep instance details as default and click next
6. The free storage is up to 30GB, so you can decide how many gigabytes you want then click next
7. The tag is the name of your instance. Decide your desired tag and click next
8. In security group, click add rule and add http and https as rules. Then click review and launch
9. Review everything and click launch
10. This will open a window about key pair jump out.
11. Select create a new key pair, fill the key name and download the key (the key should be kept carefully)

Logging into EC2 instance (the red parts are the Linux commands)

1. If the instance state is running, it means it can be logged into
2. If you are using windows system, you will need a software like cmder to do the Linux command
3. Use cd to move from the current to the folder which has the key for the server.
4. Use chmod 400 keyname.pem to change the permission.
5. Use ssh -i keyname.pem ubuntu@public-ip-address to log into the server. (public ip address can be found in instances.)
6. Select yes for connecting
7. Use sudo apt-get update to update the package.
8. Use sudo apt-get install apache2 libapache2-mod-php5 mysql-server php5-mysql to install php5, mysql and apache
9. Set password for mysql root user
10. Use sudo service apache2 restart to restart apache.
11. Use mysql\_secure\_installation to protect mysql
12. Use sudo service apache2 restart to restart apache.
13. Use mysql -u root -p to try to log into mysql
14. If login successfully, use exit to logout.
15. Use sudo apt-get install phpmyadmin to install phpMyAdmin
16. Before uploading the file to apache, open the file config.php and Change the server, username, password, database name in line 6 to 9.

Transferring file into the server

1. Download PuTTYgen
2. Under Type of key to generate, choose RSA
3. Choose Load. By default, PuTTYgen displays only files with the extension .ppk. To locate your .pem file, select the option to display files of all types.
4. Select your .pem file for the key pair that you specified when you launched your instance, and then choose Open. Choose OK to dismiss the confirmation dialog box
5. Choose Save private key to save the key in the format that PuTTY can use.
6. Download and open WINSCP
7. At the WinSCP login screen, for Host name, enter the public DNS hostname or public IPv4 address for your instance.
8. For User name, enter ubuntu
9. Specify the private key for your instance. For Private key, enter the path to your private key, or choose the "..." button to browse for the file. For newer versions of WinSCP, choose Advanced to open the advanced site settings and then under SSH, choose Authentication to find the Private key file setting.
10. Choose Login to connect, and choose Yes to add the host fingerprint to the host cache.
11. Upload the file through WINSCP
12. Move the project folder to var/www folder by using Linux command
13. Open public-ip-address/phpMyAdmin
14. Login
15. Copy the content of SQL\_Statement.txt and paste it into phpMyAdmin
16. Run the SQL code.
17. Installation finished
18. The project should be able to access in public-ip-address/nzmebookingphp