

**Subject Specific Suggestion Box**

**(Installation Manual)**

# Software Version 1.0

Contents

[1. Introduction 3](#_Toc310629418)

[2. Application Structure 3](#_Toc310629419)

[2.1. Directory Tree 3](#_Toc310629420)

[2.2. Docs Folder 4](#_Toc310629421)

[2.3. Include Folder: 4](#_Toc310629422)

[2.4. Install Folder: 4](#_Toc310629423)

[3. Installation Requirements 5](#_Toc310629424)

[3.1. Server Requirements 5](#_Toc310629425)

[3.2. Client Requirements 6](#_Toc310629426)

[4. Installation Process 6](#_Toc310629427)

[4.1. Step 1: 6](#_Toc310629428)

[4.2. Step 2: 7](#_Toc310629429)

[4.3. Step 3: 7](#_Toc310629430)

[4.4. Step 4: 8](#_Toc310629431)

[4.5. Step 5: 9](#_Toc310629432)

[4.6. Step 6 (Optional): 9](#_Toc310629433)

[5. Credits 10](#_Toc310629434)

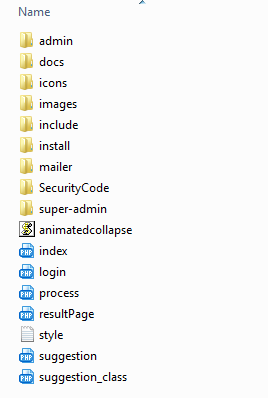
# Introduction

Welcome to the Subject Specific Suggestion Box system. Contained in the following pages is the information needed to install the software. Experience in setting up PHP and MySQL based applications is highly recommended. For troubleshooting installation issues, experience in PHP and MySQL is a must.

# Application Structure

## Directory Tree

Following figure displays the application directory structure. During installation, you will need to make changes to one or more files within “include” directory.



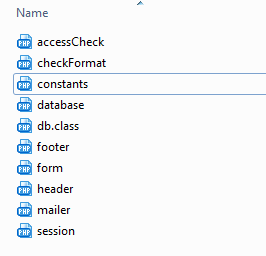
Figure

## Docs Folder

The “docs” folder contains user documentation. Please do not remove “pdf” files in this folder as they are referenced by the application. If you ever need to upload new version of “pdf” documents, just replace the files in the folder but make sure the file name is not changed.

## Include Folder:

The “include” directory includes many important files needed for the system to work properly. The directory structure is shown below.



Figure

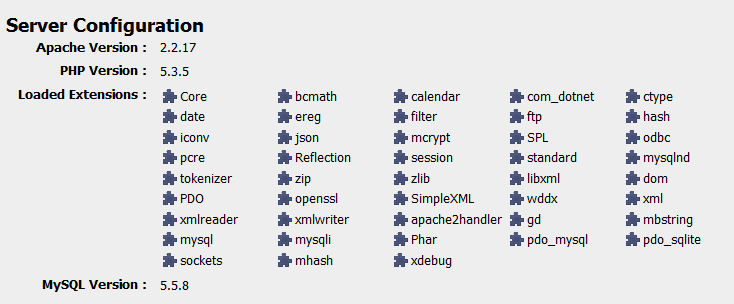
## Install Folder:

Install folder contains files which are needed for initial application installation. This folder must be removed from the directory once the install is complete. The install process will be discussed later.

# Installation Requirements

## Server Requirements

The application has been tested to work in the following environment. If your environment does not match the following, we cannot guarantee if the application will work correctly in your environment:



Figure

* **PHP Settings**
  + In “php.ini” file, you must set the following parameters for email notification to work. The Suggestion box application allows two methods for sending email; i.e. PHP mail() and SMTP Server. In order for PHP mail() function to work, these settings must be defined for your environment. An example is shown below:

[mail function]

; For Win32 only.

; http://php.net/smtp

SMTP = localhost

; http://php.net/smtp-port

smtp\_port = 25

; For Win32 only.

; http://php.net/sendmail-from

sendmail\_from = you@yourdomain

; For Unix only. You may supply arguments as well (default: "sendmail -t -i").

; http://php.net/sendmail-path

;sendmail\_path =

* **MySQL Settings**
  + When setting up MySQL database, the database engine must be “InnoDB”.
  + The database must be protected by a username and password.

## Client Requirements

There are different client requirements for different types of users:

* **Super-Admin and Admin**
  + The Suggestion Dashboard is tested to work in the following environments:
    - Internet Explorer 8.0 and 9.0
    - Google Chrome 15.0.874.121 m
  + **Some Issues:**
    - **We don’t recommend that you use Firefox to access Suggestion Dashboard (Control Panel) because the application does not render properly in Firefox as of Suggestion Box release v1.0**
* **End User (Suggestion Submitter)**
  + The Suggestion Box is tested to work in the following environments:
    - Internet Explorer 8.0 and 9.0
    - Firefox 3.6
    - Google Chrome 15.0.874.121 m
    - Safari 5.1.2

# Installation Process

## Step 1:

The first step is to copy application directory to your web server. The location where you copy files must be accessible from a browser. For example, let’s assume that the location where you copy your files is “/public\_html” and you can access this location through <http://mysite.com> address. You need to copy application directory to “/public\_html/” directory on the server.

## Step 2:

Now, we need to setup MySQL database. This step assumes that MySQL server is already configured and running. Installing and configuring database server is out of scope of this installation manual. You need to create a new database and database user with password. After creating the database and database user, please make a note of following information:

Database Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Database Username: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Database Password: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Database Server Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Database Server Port: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [The default port is 3389]

After creating the database, log into database either by using a 3rd party MySQL administrator tool or phpMyAdmin application. After logging in, manually import the “initial\_database\_setup” file into database. This file is located in “install” folder of Suggestion Box application. Importing this file will create all the tables with some initial data.

## Step 3:

After setting up database (step 2), we will now configure application files to allow connectivity to the database server. To do this, you need to open “constants.php” file with a text editor. This file is located inside “include” folder of Suggestion Box application. You need to configure values for following settings within this file:

define("DB\_SERVER", "server\_name"); replace server\_name with your server address

define("DB\_USER", "DB\_User"); replace DB\_User with the name of DB user

define("DB\_PASS", "password"); replace password with the DB user’s password

define("DB\_NAME", "DB\_Name"); replace DB\_Name with the name of database

## Step 4:

In this step, we will configure some other settings in “constants.php” file located inside “include” folder of the Suggestion Box application.

/\*The following constant defines the default page title for application\*/

define("TITLE", "SUGGESTION DASHBOARD");

define("appName", "Suggestion Dashboard"); // Defines Application Name

//The following setting defines the base website URL and must be appended by forward slash (/). If your Suggestion Box application is located inside “http://mysite.com/” directory of web server, then your webBaseURL must be defined as follows:

NOTE: If the following setting is incorrect, the application will NOT work

define("webBaseURL", "http://mysite.com/");

//The following setting defines site root relative to server root -- if the site is at the root of web server , then use only forward slash define("serverRoot", "/"); If the path has other directories such as following then type in that address followed by forward slash (/). This setting is used primarily in header.php file located within “include” folder.

NOTE: If the following setting is incorrect, the application will NOT work

define("serverRoot", "/~alexglar/njit1/");

//The following message is displayed to a user when he/she tries to access a page to which he/she does not have access.

define("accessDeniedMsg", "Access denied: Either you are not logged in or your account does not have access permissions to this page.<br><a href ='".webBaseURL."'>Click here</a> to go back to homepage.");

//The following setting enables System wide e-mail notification. Type 1 for Yes and 0 for No. If the setting is 0, then email alerts will be completely disabled.

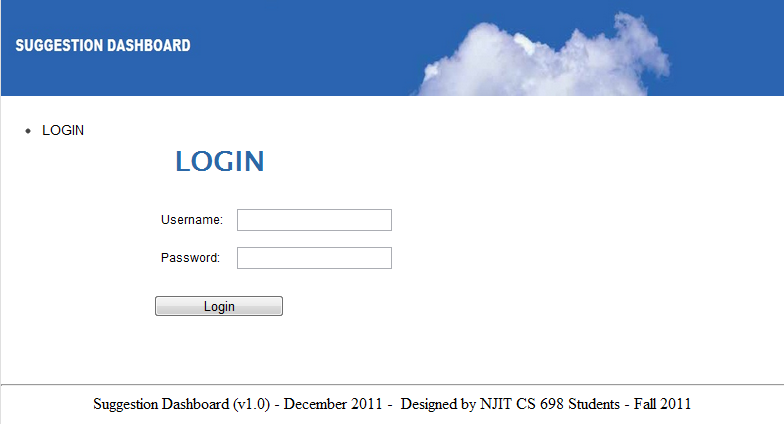
define("enableEmail", 1);

## Step 5:

Now that application settings have been configured, go to your browser and access the application address. You should get a login page when you access the application. If you don’t get the correct page, you need to go back and check your configuration. The default login information is as follows:

***Username:*** *superadmin*

***Password:*** *password*



Figure

## Step 6 (Optional):

If you need to change the footer located at the bottom of each page of the application, you need to open “footer.php” file located inside “include” folder and edit that file. Please note that prior experience in PHP is highly recommended before any changes are made to any of the files.

# Credits

|  |  |
| --- | --- |
| Name | Role |
| Aaditya Gorur Paniraj | Project Manager |
| Farhan Javed | Lead Software Developer |
| Yen-Chieh Chen (Jay) | Software Developer |
| Tianyu Chen (Tim) | Software Architect |
| Han Zhang (Bradley) | Lead Software Tester |
| Li-Hsin Shih (Lindsey) | Software Tester |
| Shixian Yang | Project Coordinator |
| Avinash Varadapura | Project Coordinator |

**DISCLAIMER:**

Please note that this application was developed by students at New Jersey Institute of Technology, Newark, New Jersey. The application was developed in very short period of time and the basic goal of developing this application was to teach students various methods and techniques used in a software project. The application may require several enhancements to work in various server environments. The application was developed and tested only in the environment mentioned in section 3 of this manual. You are allowed to make changes, copy or redistribute any section / code of this application for private or commercial use.