

SMART GUARDIAN

USER MANUAL

Table of Contents

Getting Started.....	3
Installation.....	3
Configuration.....	3
Controller.....	3
Wall.....	3
Creating Administrator Accounts.....	3
Creating User Groups.....	4
Creating User Accounts.....	4
Settings.....	5
User Groups.....	6
User Accounts.....	6
Administrators.....	6
Wall.....	6
Domain Classes.....	7
Policies.....	7
Flushing The Database	7
Reporter.....	8
Trouble Shooting.....	9

1.Getting Started

1.1.Installation

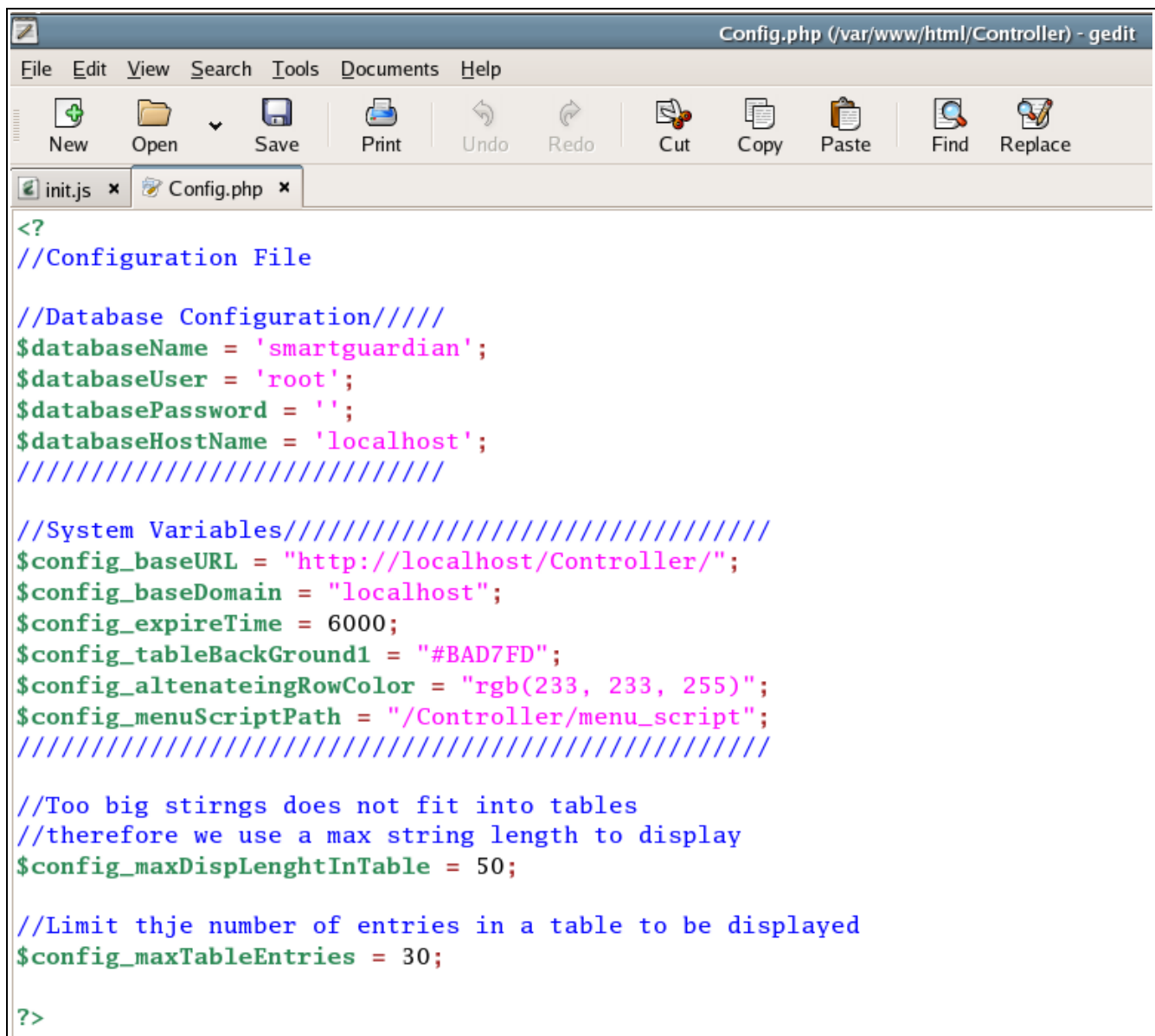
See installation manual.

1.2.Configuration

There are several configuration files that have to be modified before using the system.

1.2.1.Controller

Open the “config.php” file in the root directory of the controller. This file contains the global variables of Controller.



```
<?
//Configuration File

//Database Configuration/////
$databaseName = 'smartguardian';
$databaseUser = 'root';
$databasePassword = '';
$databaseHostName = 'localhost';
////////////////////

//System Variables////////////////////////////////////
$config_baseURL = "http://localhost/Controller/";
$config_baseDomain = "localhost";
$config_expireTime = 6000;
$config_tableBackGround1 = "#BAD7FD";
$config_altenateingRowColor = "rgb(233, 233, 255)";
$config_menuScriptPath = "/Controller/menu_script";
////////////////////////////////////

//Too big stirngs does not fit into tables
//therefore we use a max string length to display
$config_maxDispLenghtInTable = 50;

//Limit thje number of entries in a table to be displayed
$config_maxTableEntries = 30;

?>
```

First modify the database related variables. Controller will not be able to connect to the database if there is any inconsistency in the database related variables. Database name is the name of the database that holds all the tables of SmartGuardian. Database user must have full access to this database. Password field is blank by default but it is suggested that you assign a password for the database user for security issues.

Next set of variables are system vartiables. \$config_baseUrl holds the path of the index.php file. More explicitly it holds the root path of the Controller. \$config_baseDomain is the domain that Controller is working under. Administration interface uses a timeout mechanism. Timeout value is denoted in seconds and \$config_expireTime stands for this value. \$config_tableBackGround1 holds the color of the top and left borders in the menus. This color is blue by default. \$config_altenateingRowColor holds the alternating color in table rows (eg. Rows of statistics). Note that since these values will be

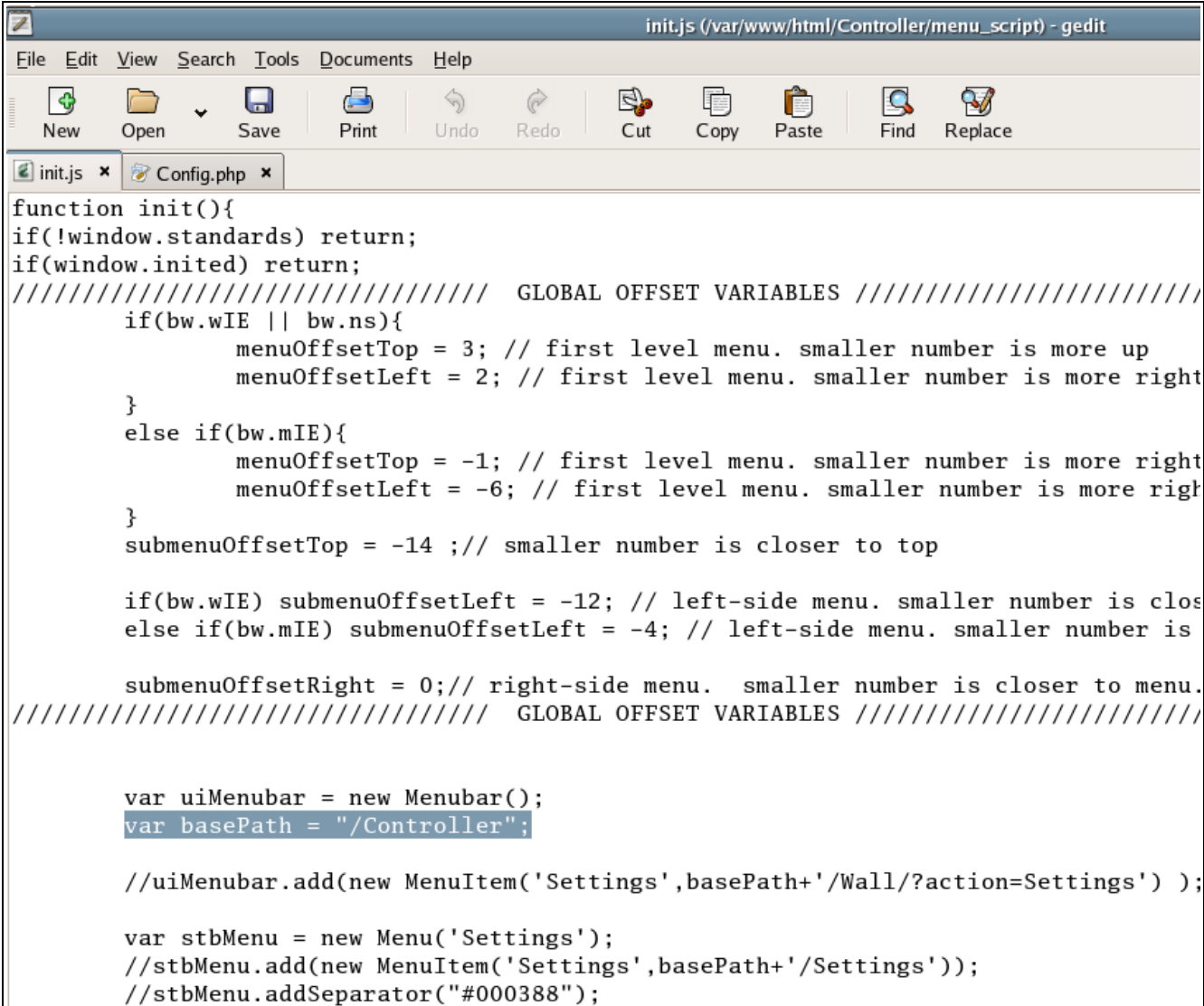
embedded in html code you can assign them both rgb or hexadecimal formatted color values.

\$config_menuScriptPath holds the path of the Javascript files of the interface. Please keep in mind that root directory is http://domain/. So in default settings Javascript files reside in http://domain/Controller/menus_script .

\$config_maxDispLengthInTable is the maximum number of characters that can fit in a table cell. Do not make this value too large otherwise some tables will be very hard to read.

Some tables have too many entries so they are displayed page-by-page and \$config_maxTableEntries is the number of entries displayed in each page.

Controller has one more configuration file, "init.js". This file is the configuration file of the javascript which is in /menu_script folder by default.



```
function init(){
if(!window.standards) return;
if(window.inited) return;
////////////////////// GLOBAL OFFSET VARIABLES ////////////////////////
    if(bw.wIE || bw.ns){
        menuOffsetTop = 3; // first level menu. smaller number is more up
        menuOffsetLeft = 2; // first level menu. smaller number is more right
    }
    else if(bw.mIE){
        menuOffsetTop = -1; // first level menu. smaller number is more right
        menuOffsetLeft = -6; // first level menu. smaller number is more right
    }
    submenuOffsetTop = -14 ;// smaller number is closer to top

    if(bw.wIE) submenuOffsetLeft = -12; // left-side menu. smaller number is closer to top
    else if(bw.mIE) submenuOffsetLeft = -4; // left-side menu. smaller number is closer to top

    submenuOffsetRight = 0; // right-side menu. smaller number is closer to menu.
////////////////////// GLOBAL OFFSET VARIABLES ////////////////////////

    var uiMenubar = new Menubar();
    var basePath = "/Controller";

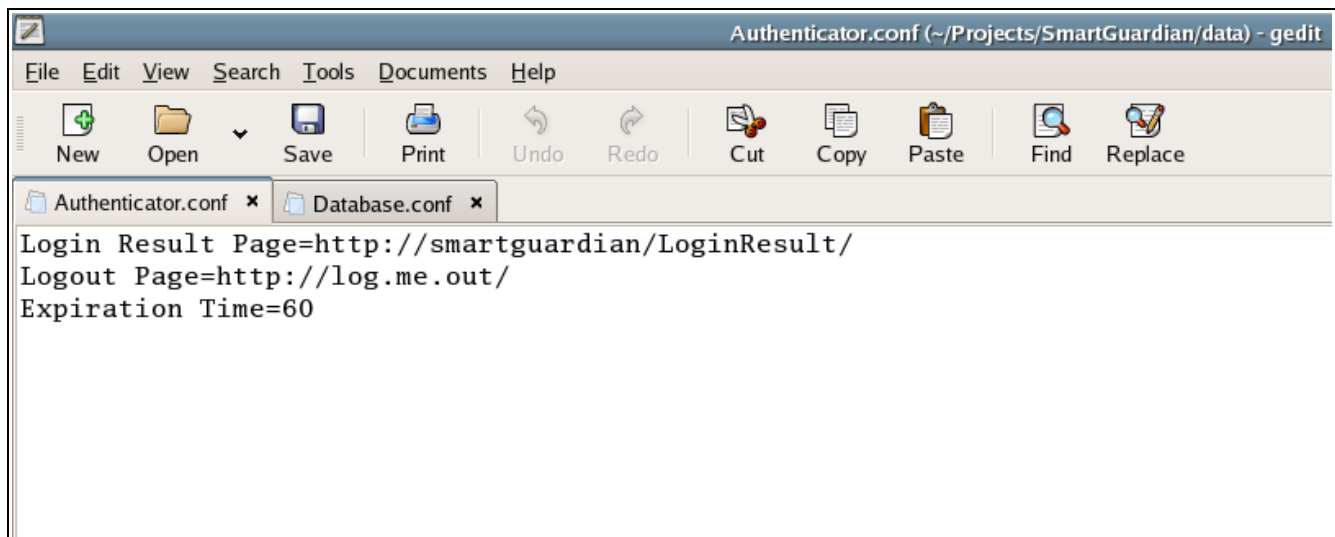
    //uiMenubar.add(new MenuItem('Settings',basePath+'/Wall/?action=Settings') );

    var stbMenu = new Menu('Settings');
    //stbMenu.add(new MenuItem('Settings',basePath+'/Settings'));
    //stbMenu.addSeparator("#000388");
```

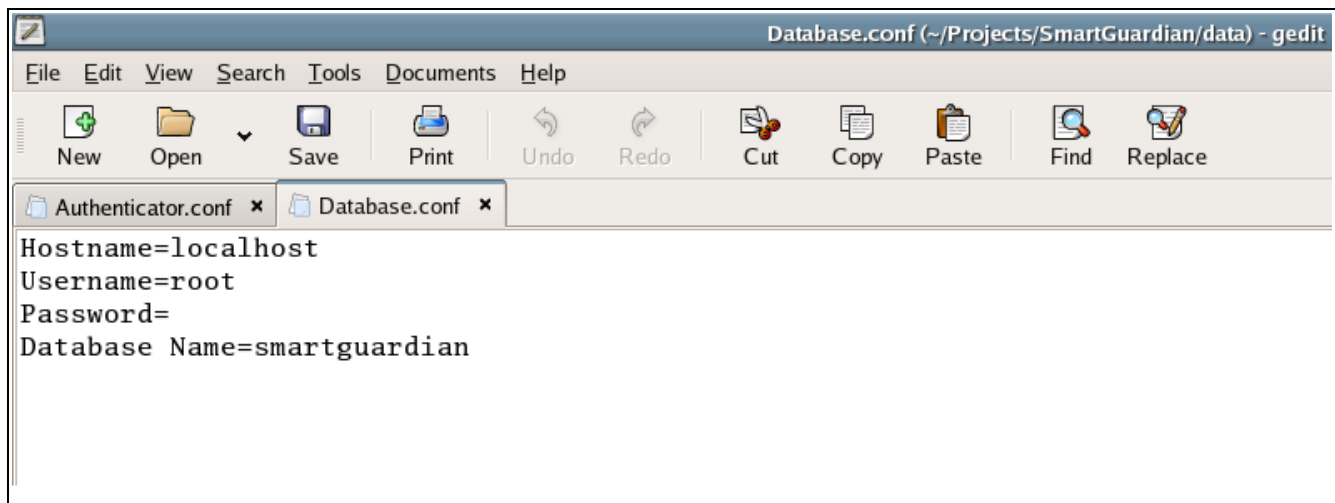
You should only modify the “basePath” variable in this file. This variable (indicated by blue label) holds the root directory of the interface. In this example the root directory of the interface is “/Controller” that is controller can be reached via “http://domain/Controller”. Change this variable to the directory where Controller files reside.

1.2.2.Wall

Wall has two configuration files named “Authenticator.conf” and “Database.conf”.



“Authenticator.conf” contains information about user login logout mechanism for the web gateway. “Login Result Page” is the path of the page displayed to the user after login trial. “Logout Page” is the path that user should use in order to log out from the system. Web Gateway system uses a timeout mechanism. Timeout value is in seconds and this value is indicated by “Expiration Time”.

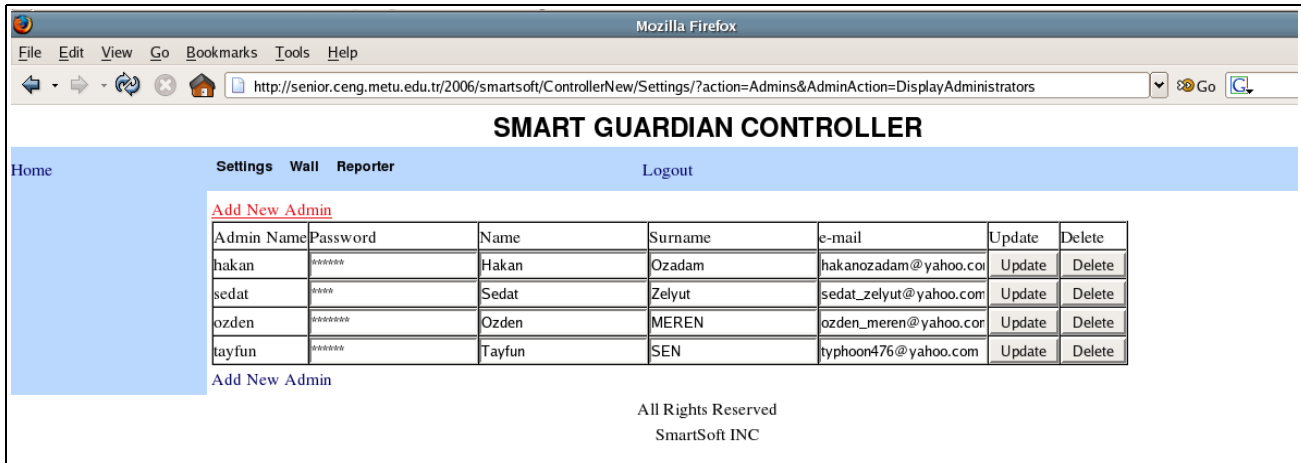


“Database.conf” file holds the database configuration information which is exactly the same as in “Config.php” file.

1.3.Creating Administrator Accounts

The system comes with a default administrator account. It is strongly suggested that several administrator accounts should be created before using the system.

In order to create an administrator account; from the settings tab, choose the “Administrators” option. Click “Add New Admin” and fill in the form.



The screenshot shows a web browser window with the URL <http://senior.ceng.metu.edu.tr/2006/smartssoft/ControllerNew/Settings/?action=Admins&AdminAction=DisplayAdministrators>. The page title is "SMART GUARDIAN CONTROLLER". The navigation bar includes "Home", "Settings", "Wall", "Reporter", and "Logout". The "Settings" tab is active, and the "Add New Admin" link is highlighted. Below the link is a table listing administrators:

Admin Name	Password	Name	Surname	e-mail	Update	Delete
hakan	*****	Hakan	Ozadam	hakanozadam@yahoo.co	Update	Delete
sedat	*****	Sedat	Zelyut	sedat_zelyut@yahoo.com	Update	Delete
ozden	*****	Ozden	MEREN	ozden_meren@yahoo.com	Update	Delete
tayfun	*****	Tayfun	SEN	typhoon476@yahoo.com	Update	Delete

Below the table is the "Add New Admin" link. At the bottom of the page, it says "All Rights Reserved SmartSoft INC".

1.4.Creating User Groups

Before adding new users to the system, one has to introduce several user groups to the system since every user belongs to a unique user group, though this group can be changed.

From settings tab, select user groups and click “Add New User Group”.

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File Edit View Go Bookmarks Tools Help

http://senior.ceng.metu.edu.tr/2006/smartsoft/ControllerNew/Settings/?action=Users&UserActions=DisplayUserGroup

SMART GUARDIAN CONTROLLER

Home Settings Wall Reporter Logout

[Add New User Group](#)

Group ID	Group Name	Download Limit	Policy Name	Edit	Update	Delete
2	guests	10000	Workers Policy	Edit	Update	Delete
3	managers	100000	hakan	Edit	Update	Delete
13	Ozden	3000	ozden	Edit	Update	Delete
12	Workers	0	Workers Policy	Edit	Update	Delete

[Add New User Group](#)

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1.5.Creating User Accounts

Once there are some user groups, new users can be added. From settings tab, select “User Groups”. Click the edit option of the user group that you want to add the user. Click the “Add new User” option.

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File Edit View Go Bookmarks Tools Help

http://senior.ceng.metu.edu.tr/2006/smartsoft/ControllerNew/Settings/?action=Users&UserActions=DisplayUserGroup

SMART GUARDIAN CONTROLLER

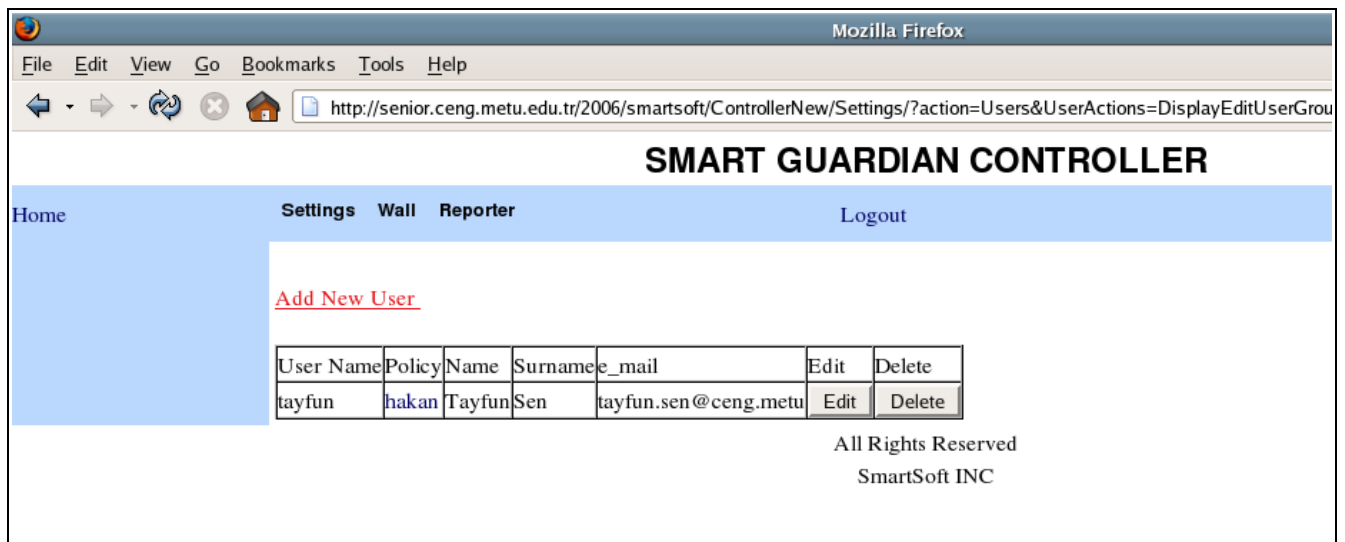
Home Settings Wall Reporter Logout

[Add New User Group](#)

Group ID	Group Name	Download Limit	Policy Name	Edit	Update	Delete
2	guests	10000	Workers Policy	Edit	Update	Delete
3	managers	100000	hakan	Edit	Update	Delete
13	Ozden	3000	ozden	Edit	Update	Delete
12	Workers	0	Workers Policy	Edit	Update	Delete

[Add New User Group](#)

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2.Settings

In settings menu, you can view and manage the administrator accounts, user groups and user accounts.



2.1.User Groups

When you select “User Groups” from settings tab, you can view user groups. You can change the user group properties in this menu. In order see the users belonging to the user group, click the edit text.

2.2.User Accounts

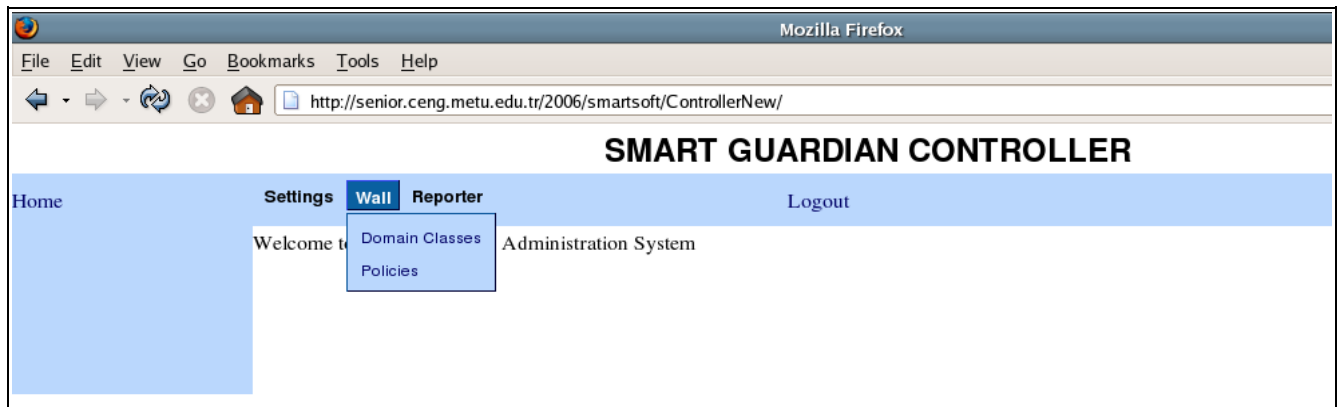
You can see all the user accounts by selecting the “All Users” option from settings tab. In this menu user accounts are group with respect to their groups. Besides routine properties of each user account, you can see the policy of the user and by clicking the policy you go to the related policy menu.

2.3.Administrators

Administrators can be managed by selecting the “Administrators” option from settings tab.

3.Wall

In the menus of the wall tab, you can manage the domains and domain classes and you can add, update and delete policies and rules. Policies are set of rules which can be applied to user groups.



3.1.Domain Classes

You can view and edit the current domain classes from this menu.

3.2.Policies

As mentioned before, policies are set of rules which can be applied to user groups. Therefore in order to add a rule to the system there has to be a policy. More explicitly, every rule belongs to a unique policy.

By choosing policies menu form wall tab, you can view the current policies.

By clicking on the policy name, the rules associated with that policy are displayed. You can add new rules to the policy from this menu.

By clicking edit, you can view the details of the rule.

3.3.Flushing The Database

The changes in the database are not immediately reflected to SmartGuardian for efficiency reasons. Instead SmartGuardian regularly checks if there is a change in the database. SmartGuardian does thşs

by checking a special table in the database. Therefore users have to inform SmartGuardian that database has changed.

In order to inform the system that a change has occurred, choose “User Profile” which exists in the left menu of “Wall” tab. Then click the “Flush Database” button. After a while (before 1 minute by default) SmartGuardian will check the database (you can see this when the executable file prints “Polling”) and apply the necessary changes.



4.Reporter

In reporter you can view the statistics of the system according to domain name, time, ip and user name. You can sort the table in any order by clicking the name field.

You can browse the URLs by clicking on them. A new browser window is opened for each url.

You can search or delete the desired urls by indicating the restrictions on related fields. Note that each non indicated form field will match every entry of the database.

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File Edit View Go Bookmarks Tools Help

http://senior.ceng.metu.edu.tr/2006/smartssoft/ControllerNew/Reporter/?action=Statistics

SMART GUARDIAN CONTROLLER

Home Settings Wall **Reporter** Logout

Statistics

Display All Statistics
User Statistics
Search Statistics
Delete Statistics

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File Edit View Go Bookmarks Tools Help

http://senior.ceng.metu.edu.tr/2006/smartssoft/ControllerNew/Reporter/index.php?action=Statistics&StatisticsAction=Display

SMART GUARDIAN CONTROLLER

Home Settings Wall **Reporter** Logout

Previous | Next

User Name	URL	Time (DESC)	Client Ip
ali	http://z1.adserver.com/w/cp.x;rid=623;tid=6;ev=1;d...	2006-05-27 22:35:29	127.0.0.1
ali	http://view.atdmt.com/iview/msnnkhac001728x90Xsptm...	2006-05-27 22:35:27	127.0.0.1
ali	http://view.atdmt.com/iview/msnnkhac001300x250Xspt...	2006-05-27 22:35:27	127.0.0.1
ali	http://rad.msn.com/ADSAAdClient31.dll?GetAd=&PG=SPT...	2006-05-27 22:35:26	127.0.0.1
ali	http://rad.msn.com/ADSAAdClient31.dll?GetAd=&PG=SPT...	2006-05-27 22:35:24	127.0.0.1
ali	http://rad.msn.com/ADSAAdClient31.dll?GetAd=&PG=SPT...	2006-05-27 22:35:24	127.0.0.1
ali	http://msn.foxsports.com/mlb/story/5641292	2006-05-27 22:35:21	127.0.0.1
ali	http://view.atdmt.com/iview/msnnkhac001300x250Xspt...	2006-05-27 22:35:19	127.0.0.1
ali	http://rad.msn.com/ADSAAdClient31.dll?GetAd=&PG=SPT...	2006-05-27 22:35:18	127.0.0.1
ali	http://view.atdmt.com/iview/msnnkhac001728x90Xsptm...	2006-05-27 22:35:18	127.0.0.1
ali	http://rad.msn.com/ADSAAdClient31.dll?GetAd=&PG=SPT...	2006-05-27 22:35:16	127.0.0.1
ali	http://rad.msn.com/ADSAAdClient31.dll?GetAd=&PG=SPT...	2006-05-27 22:35:15	127.0.0.1
ali	http://msn.foxsports.com/tennis/story/5644698	2006-05-27 22:35:13	127.0.0.1
ali	http://rad.msn.com/ADSAAdClient31.dll?GetAd=&pg=MSN...	2006-05-27 22:35:06	127.0.0.1
ali	http://www.msn.com/	2006-05-27 22:35:01	127.0.0.1
ali	http://mail.yahoo.com/	2006-05-27 22:34:48	127.0.0.1
ali	http://movies.yahoo.com/mv/news/ap/20060527/114875...	2006-05-27 22:34:39	127.0.0.1
ali	http://movies.yahoo.com/	2006-05-27 22:34:17	127.0.0.1
ali	http://www.yahoo.com/	2006-05-27 22:34:05	127.0.0.1
ali	http://www.flickr.com/photos/tangentialism/2257843...	2006-05-27 22:33:53	127.0.0.1
ali	http://flickr.com/	2006-05-27 22:33:46	127.0.0.1
ali	http://www.centallab.metu.edu.tr/	2006-05-27 22:33:38	127.0.0.1
ali	http://www.metu.edu.tr/	2006-05-27 22:33:21	127.0.0.1
ali	http://www.metu.edu.tr/	2006-05-27 22:25:59	127.0.0.1
ali	http://www.google.com.tr/	2006-05-27 22:25:36	127.0.0.1
ozden	http://labs.icq.com/	2006-05-27 22:24:48	127.0.0.1

5.Trouble Shooting

It is strongly suggested that you install mysqlAdmin if you are going to use this interface. You can recover any database inconsistency by mysqlAdmin.

You are advised to take the snapshots of the database regularly. In case of any system failure, first recover the database from the previous database snapshot file (dump file) and restart SmartGuardian. SmartGuardian listens the port 3490 so please do not use any other application using port 3490 while SmartGuardian is running.

Try to restart the system if you think that responses are coming too slow.