

BaKaPlan - Baithne Ka Plan
1.0

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Contents

Chapter 1

Main Page

This software creates seating plan for examinations. It provides five different strategies to create seat plan.

REQUIREMENTS:

- 1) GNU G++ Compiler
- 2) Configure public_html and cgi-bin in home
- 3) CGICC Library
- 4) MySQL Connector for C++
- 5) jwSMTP Library
- 6) exim4 mail server
- 7) Enable site(localhost/bakaplan) for BaKaPlan

Installation of requirements

1) GNU G++ Compiler

Run following command in terminal to install

```
$ sudo apt-get install g++
```

2) Configure public_html/cgi-bin folder for executing files on browser.

Assuming you already installed apache if not then run following command in terminal

```
$ sudo apt-get install apache2
```

Steps to configure public_html

```
$ mkdir ~/public_html
```

```
$ sudo a2enmod userdir
```

```
$ sudo service apache2 restart
```

Give 755 permissions to public_html directory

```
$ chmod -R 755 ~/public_html
```

Now open <http://localhost/~username> in browser. Here username is your login name.

Steps to configure cgi-bin in public_html

```
$ sudo a2enmod cgi
```

```
$ sudo a2enmod cgid
```

```
$ sudo service apache2 restart
```

```
$ cd ~/public_html
$ mkdir cgi-bin
$ cd /etc/apache2
$ sudo vim sites-available/default
```

Add following text in file:

```
ScriptAlias /cgi-bin/ /home/*/public_html/cgi-bin/
<Directory "/home/*/public_html/cgi-bin">
    AllowOverride None
    Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch
    SetHandler cgi-script
    Order allow,deny
    Allow from all
</Directory>
```

Save it and then restart apache

```
$ sudo service apache2 restart
```

3) CGICC Library

Run following command in terminal

```
$ sudo apt-get install libcgicc-dev
```

OR

Download any latest package from <http://ftp.gnu.org/gnu/cgicc/>

Then run following commands in terminal

```
$ tar xzf cgicc-X.X.X.tar.gz
$ cd cgicc-X.X.X/
$ ./configure --prefix=/usr
$ make
$ sudo make install
```

4) MySQL and MySQL Connector for C++

Run following commands in terminal

```
$ sudo apt-get install mysql-server mysql-client
$ sudo apt-get install libmysql++
$ sudo apt-get install libmysql++-dev
```

5) jwSMTP Library

Download [jwSMTP](#) Library

Follow steps to install

```
$ cd ~/Downloads
$ tar -xzf jwsmtp-X.X.X.tar.gz
$ cd jwsmtp-X.X.X
$ ./configure
$ make
$ sudo make install
```

NOTE: If you got error in mailer.cpp or demo2.cpp file then include string header file in that. And again run make

6) exim4 Mail Server

Run the following commands in terminal

```
$ sudo apt-get install exim4
$ sudo dpkg-reconfigure exim4-config
```

A Mail Server Configuration window will appear.

Follow the following instructions to configure the mail server.

- 1) The first page is just an introduction. Press ENTER
- 2) On the second page choose the second option i.e mail sent by smarthost; received via SMTP or fetchmail and press ENTER.
- 3) Next Keep the system mail name as it is and press ENTER.
- 4) Just Press Enter for the next page.
- 5) The next page asks you to enter IP addresses to listen on incoming SMTP connections. Leave it as it is and Press ENTER
- 6) Even on the next page let the value be the default one and Press ENTER.
- 7) Leave the next page as it is and Press ENTER.
- 8) The next page asks you for IP address or host name of the outgoing smarthost. Enter "smtp.example.com::587". Where example refers to gmail, yahoo or any other mail service provider and 587 is port number.
- 9) The Next page asks you if you want to hide local mail name in outgoing mail? Choose "No".
- 10) The Next asks you if you want to keep number of DNS-queries minimal? Choose "No".
- 11) On the next page choose the delivery method for local mail as mbox format in /var/mail/.
- 12) Next page asks you if you want to split configuration into small files? Choose "No".
- 13) Next keep root and postmaster mail recipient empty.

Now terminal will show that MTA is being restarted.

After this is done, run the following command in terminal

```
$ sudo vim /etc/exim4/passwd.client
```

Add following in the file

```
*:USERNAME@example.com:PASSWORD.
```

Where, USERNAME is a valid email address and PASSWORD is password for USERNAME.

7) Enable site(bakaplan) using Apache

Do as following:

- 1) Open misc/bakaplan.conf file
- 2) Change username(*) with your username and save
- 3) Copy bakaplan.conf to /etc/apache2/sites-available

```
$ sudo cp ~/public_html/cgi-bin/bakaplan/misc/bakaplan.conf /etc/apache2/sites-available
```
- 4) Enable site

```
$ sudo a2ensite bakaplan.conf
```
- 5) Reload apache

```
$ sudo service apache2 reload
```
- 6) Now open site on browser

```
localhost/bakaplan
```

INSTALLATION:

Check [INSTALLATION]() steps for using this software.

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Chapter 2

Namespace Index

2.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

name	??
----------------------	-------	----

Chapter 3

Hierarchical Index

3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Database	??
DataSheet	??
ExapandRollNo	??
jwsmtplib::mailer	??
MD5	??
PageStructure	??
InputDetail	??
BaKaPlan	??
ProjectDetail	??
ReadInput	??
ArrangeRollNo	??
DateSheet	??
ExpandRollNo	??
SeatPlan	??
Strategy	??
ReadInputField	??
Seatplan	??
SendMail	??
jwsmtplib::SOCKADDR_IN	??
User	??

Chapter 4

Class Index

4.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

ArrangeRollNo	Arrange roll no class for sorting, removing redundant roll nos and also excludeing roll nos that are not for seating plan	??
BaKaPlan	Main Project class	??
Database	Declaring functions for database comectivity and accessing database	??
DataSheet	??
DateSheet	DateSheet class for reading datesheet detail, class detail and create datesheet.out file for seating plan	??
ExapandRollNo	Class for expanding roll nos	??
ExpandRollNo	??
InputDetail	For declaring common variables and functions also used as base class	??
jwsmtplib::mailer	??
MD5	??
PageStructure	Declaring functions for common html tags and adding css and javascript files	??
ProjectDetail	Reading Project details from database, browser and save values in database	??
ReadInput	Class for reading input files ie reading roll no details, class detail, room detail, etc	??
ReadInputField	For reading values of fields like textbox, select, etc	??
Seatplan	??
SeatPlan	SeatPlan CClass for generating seating plan	??
SendMail	Class for sending mail to user for registration and for changing password	??
jwsmtplib::SOCKADDR_IN	??
Strategy	Strategy class to check selected strategy is valid or not for seating plan	??
User	User class for registration of new user and login if user already registered	??

Chapter 5

File Index

5.1 File List

Here is a list of all documented files with brief descriptions:

src/cpp/backend/arrangerollno.cc	
Function definition of ArrangeRollNo class	??
src/cpp/backend/datesheet.cc	
Definition of member functions of Datesheet class	??
src/cpp/backend/expandrollno.cc	
Function definition of ExpandRollNo class definition	??
src/cpp/backend/main.cpp	
Main Method	??
src/cpp/backend/readinput.cc	
Function Definition of ReadInput Class	??
src/cpp/backend/report.cc	
Report Class's member function definition for generating report	??
src/cpp/backend/seatplan.cc	
Function definition of SeatPlan Class	??
src/cpp/backend/strategy.cc	
Function definition of Strategy class	??
src/cpp/backend/header/arrangerollno.h	
ArrangeRollNo class for arranging roll no, sorting, and removing roll nos that are not required for seating plan	??
src/cpp/backend/header/datesheet.h	
Datesheet class definition	??
src/cpp/backend/header/expandrollno.h	
ExpandRollNo class declaration for expanding roll nos	??
src/cpp/backend/header/filename.h	??
src/cpp/backend/header/header.h	??
src/cpp/backend/header/readinput.h	
Declaration of ReadInput class for reading input details from file	??
src/cpp/backend/header/report.h	
Report class definition	??
src/cpp/backend/header/seatplan.h	
Declaration of SeatPlan class for generating seating plan	??
src/cpp/backend/header/strategy.h	
Strategy class for checking selected strategy is valid for seating plan or not	??
??	
??	
src/cpp/frontend/confirm_user_main.cpp	??
src/cpp/frontend/database.cc	
Definition of functions for database connectivity and accessing database	??

??		
src/cpp/frontend/login_main.cpp	...	??
src/cpp/frontend/md5.cc	...	??
??		
??		
src/cpp/frontend/read_inputfield.cc	...	??
src/cpp/frontend/sendmail.cc		
Definitions of functions for sending emails to user and developer	...	??
??		
src/cpp/frontend/signup_main.cpp	...	??
src/cpp/frontend/user.cc		
Function definition of user class. See header file for more detail	...	??
??		
src/cpp/frontend/header/cgicc.h		
Including header files required for using cgiic linrary	...	??
src/cpp/frontend/header/database.h		
Declaring Database class for creating specific functions for accessing database	...	??
src/cpp/frontend/header/database_detail.h	...	??
src/cpp/frontend/header/fieldname.h	...	??
src/cpp/frontend/header/filename.h	...	??
src/cpp/frontend/header/header.h	...	??
src/cpp/frontend/header/input_detail.h	...	??
src/cpp/frontend/header/md5.h	...	??
??		
src/cpp/frontend/header/project_detail.h	...	??
src/cpp/frontend/header/read_inputfield.h	...	??
src/cpp/frontend/header/sendmail.h		
SendMail class declaration for sending mails to user for registration or reset password link as confirmation mail	...	??
src/cpp/frontend/header/sendmail_detail.h	...	??
??		
src/cpp/frontend/header/jwsmtp/base64.cpp	...	??
src/cpp/frontend/header/jwsmtp/base64.h	...	??
src/cpp/frontend/header/jwsmtp/compat.cpp	...	??
src/cpp/frontend/header/jwsmtp/compat.h	...	??
src/cpp/frontend/header/jwsmtp/jwsmtp.h	...	??
src/cpp/frontend/header/jwsmtp/mailler.cpp	...	??
src/cpp/frontend/header/jwsmtp/mailler.h	...	??

Chapter 6

Namespace Documentation

6.1 name Namespace Reference

Variables

- `std::map< string, string >` **field**
- `std::map< string, string >` **table**

6.1.1 Detailed Description

Defining name map for declaring input field names used in html pages and column name of tables in database.

6.1.2 Variable Documentation

6.1.2.1 `std::map<string, string> name::table`

Initial value:

```
=  
{  
  
    {"user", "User"},  
    {"reg", "Registration"},  
    {"project", "ProjectDetail"},  
    {"session", "SessionDetail"},  
    {"contact", "ContactDetail"},  
    {"reset", "ResetPassword"}  
}
```

Definition at line 106 of file `fieldname.h`.

Chapter 7

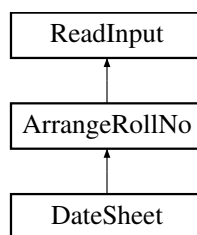
Class Documentation

7.1 ArrangeRollNo Class Reference

Arrange roll no class for sorting, removing redundant roll nos and also excluding roll nos that are not for seating plan.

```
#include <arrangerollno.h>
```

Inheritance diagram for ArrangeRollNo:



Public Member Functions

- [ArrangeRollNo](#) ()
Constructor.
- void [SortRollNo](#) (INT_VEC &rollno)
Function for sorting roll no vector array.
- void [RemoveRedundancy](#) (INT_VEC &rollno)
- void [RemoveNonEligibleRollNo](#) (INT_VEC &rollno, INT_VEC &[notIncludedRNo](#))
Removing roll no that are not eligible.
- void [AddPrefixWithRollNo](#) (INT_VEC &rollno, STRING_VEC &[prefix](#))
Adding prefix with roll nos.
- void [WriteArrangedRollNo](#) ()
Writing arranged roll nos to file as O/p file.
- void [Main](#) (string pID)
Main function to call all functions.
- [~ArrangeRollNo](#) ()
Destructor.

Protected Attributes

- INT_VEC [rollNo](#)
- INT_VEC [notIncludedRNo](#)
- INT_VEC **rollNoSize**
- INT_VEC **notIncludedRNoSize**
- STRING_VEC [prefix](#)
- STRING_2DVEC [prefixRollNo](#)
- [ExpandRollNo](#) [expandRNo](#)

7.1.1 Detailed Description

Arrange roll no class for sorting, removing redundant roll nos and also excluding roll nos that are not for seating plan.

Include [arrangerollno.h](#) file

Include [expandrollno.h](#) file

Definition at line 30 of file [arrangerollno.h](#).

7.1.2 Constructor & Destructor Documentation

7.1.2.1 ArrangeRollNo::ArrangeRollNo ()

Constructor.

Constructor

Definition at line 27 of file [arrangerollno.cc](#).

7.1.2.2 ArrangeRollNo::~~ArrangeRollNo ()

Destructor.

Desrtuctor

Definition at line 212 of file [arrangerollno.cc](#).

7.1.3 Member Function Documentation

7.1.3.1 void ArrangeRollNo::AddPrefixWithRollNo (INT_VEC & *rollNo*, STRING_VEC & *prefix*)

Adding prefix with roll nos.

Adding prefix with roll nos

Parameters

<i>rollNo</i>	List of eligible roll nos
<i>prefix</i>	Prefix ie added with roll nos

Definition at line 107 of file [arrangerollno.cc](#).

7.1.3.2 void ArrangeRollNo::Main (string *pid*)

Main function to call all functions.

Main method to call all function in order/sequence

Parameters

<i>pID</i>	Project ID
------------	------------

Definition at line 151 of file arrangerollno.cc.

7.1.3.3 void ArrangeRollNo::RemoveNonEligibleRollNo (INT_VEC & rollNo, INT_VEC & notIncludedRNo)

Removing roll no that are not eligible.

Removing non eligible roll nos

Parameters

<i>rollNo</i>	roll nos for seating plan
<i>notIncludedRNo</i>	Roll no list that is not eligible for seating plan

Definition at line 79 of file arrangerollno.cc.

7.1.3.4 void ArrangeRollNo::RemoveRedundancy (INT_VEC & rollNo)

Removing redundancy from roll nos

Definition at line 51 of file arrangerollno.cc.

7.1.3.5 void ArrangeRollNo::SortRollNo (INT_VEC & rollNo)

Function for sorting roll no vector array.

Sorting Roll nos

Parameters

<i>rollNo</i>	For sorting array
---------------	-------------------

Definition at line 39 of file arrangerollno.cc.

7.1.3.6 void ArrangeRollNo::WriteArrangedRollNo ()

Writing arranged roll nos to file as O/p file.

Writing arranged roll no's into file

Definition at line 124 of file arrangerollno.cc.

7.1.4 Member Data Documentation

7.1.4.1 ExpandRollNo ArrangeRollNo::expandRNo [protected]

Object of [ExpandRollNo](#) class

Definition at line 45 of file arrangerollno.h.

7.1.4.2 INT_VEC ArrangeRollNo::notIncludedRNo [protected]

storing rollnos

that are not included

Definition at line 34 of file arrangerollno.h.

7.1.4.3 `STRING_VEC ArrangeRollNo::prefix` [protected]

Storing prefix of

roll nos

Definition at line 40 of file `arrangerollno.h`.

7.1.4.4 `STRING_2DVEC ArrangeRollNo::prefixRollNo` [protected]

Roll no with prefix

Definition at line 43 of file `arrangerollno.h`.

7.1.4.5 `INT_VEC ArrangeRollNo::rollNo` [protected]

Reading roll nos

Definition at line 34 of file `arrangerollno.h`.

The documentation for this class was generated from the following files:

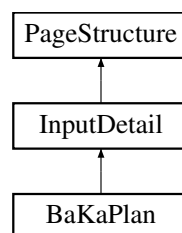
- `src/cpp/backend/header/arrangerollno.h`
- `src/cpp/backend/arrangerollno.cc`

7.2 BaKaPlan Class Reference

Main Project class.

```
#include <bakaplan.h>
```

Inheritance diagram for BaKaPlan:



Public Member Functions

- `BaKaPlan ()`
constructor
- `void Main (int step=0)`
Main Program.
- `~BaKaPlan ()`
Desrtuctor.

Protected Attributes

- `ProjectDetail project`

Additional Inherited Members

7.2.1 Detailed Description

Main Project class.

Definition at line 24 of file bakaplan.h.

7.2.2 Constructor & Destructor Documentation

7.2.2.1 BaKaPlan::~BaKaPlan ()

Desrtuctor.

Parameters

--	--

Definition at line 49 of file bakaplan.cc.

7.2.3 Member Function Documentation

7.2.3.1 void BaKaPlan::Main (int *step* = 0)

Main Program.

Parameters

<i>step</i>	Step to identify part of work flow
-------------	------------------------------------

Definition at line 31 of file bakaplan.cc.

The documentation for this class was generated from the following files:

- src/cpp/frontend/header/[bakaplan.h](#)
- src/cpp/frontend/[bakaplan.cc](#)

7.3 Database Class Reference

Declaring functions for database conectivity and accessing database.

```
#include <database.h>
```

Public Member Functions

- [Database](#) ()
Constructor to initialize database connectivity.
- void [Query](#) (string query)
Function to execute any query.
- void [UpdateQuery](#) (string table, string column, string value, string where)
Updating values in table.
- void [SelectQuery](#) (string query, STRING_VEC &result)
Select Query for selecting single column from table.
- void [InsertQuery](#) (string query)
Function for executing InsertQuery.
- void [DeleteQuery](#) (string table, string where)

Delete Query.

- void [SelectSum](#) (string column, string table, string projectID, string &result)
- void [SelectColumn](#) (STRING_VEC &result, string column, string table, string where="")
- void [SelectProjectID](#) (string &projectID)

Select project ID from database.

- void [InsertUserDetail](#) (string emailID, string password)

Insert [User](#) detail into [User](#) table.

- void [InsertRegistrationDetail](#) (string emailID, string registrationKey)

Inserting Registration detail.

- void [InsertResetPassword](#) (string emailID, string resetKey)
- void [InsertProjectDetail](#) (string emailID, string projectName)

Inserting Project Detail into database.

- void [InsertClassDetail](#) (string projectID, string className, string subjectName, string subjectCode)
- void [InsertRollNoDetail](#) (string projectID, string classID, string prefix, string startRNo, string endRNo, string notIncluded)
- void [InsertRoomDetail](#) (string projectID, string dateSheetID, string roomInfo, string centreName, string roomNo, string rows, string cols)
- void [InsertStrategyDetail](#) (string projectID, string dateSheetID, string strategyName)
- void [InsertValidStrategy](#) (string projectID, string dateID, string date, string selectedStrategy, string totalSeats, string totalStudents, string totalGroupSeats, string totalGroupStudents)
- void [InsertDateSheet](#) (string projectID, string date, string examCode)
- void [InsertExamDetail](#) (string projectID, string dateSheetID, string examName, string examSession, string examTime, string examVenue)
- void [InsertSessionDetail](#) (string emailID, string sessionKey)
- [~Database](#) ()

Protected Attributes

- MYSQL * [connect](#)
- MYSQL_RES * [res_set](#)
- MYSQL_ROW [row](#)
- unsigned int [numrows](#)
- STRING_VEC [vecTemp](#)
- string [i](#)
- string [j](#)
- string [query](#)

7.3.1 Detailed Description

Declaring functions for database connectivity and accessing database.

Definition at line 30 of file database.h.

7.3.2 Constructor & Destructor Documentation

7.3.2.1 Database::Database ()

Constructor to initialize database connectivity.

For making connection with database.

Definition at line 23 of file database.cc.

7.3.2.2 Database::~~Database ()

For closing database connection

Class: [Database](#) Method: [Database](#) :: [~Database\(\)](#)

Description: Destructor for closing database connectivity

Definition at line 351 of file database.cc.

7.3.3 Member Function Documentation

7.3.3.1 void Database::DeleteQuery (string *table*, string *where* = " ")

Delete Query.

[Database](#) Delete Query

Parameters

--	--

Definition at line 122 of file database.cc.

7.3.3.2 void Database::InsertClassDetail (string *projectId*, string *className*, string *subjectName*, string *subjectCode*)

Inserting class details

7.3.3.3 void Database::InsertDateSheet (string *projectId*, string *date*, string *examCode*)

Inserting datesheet details

7.3.3.4 void Database::InsertExamDetail (string *projectId*, string *dateSheetID*, string *examName*, string *examSession*, string *examTime*, string *examVenue*)

Inserting examination details

7.3.3.5 void Database::InsertProjectDetail (string *emailID*, string *projectName*)

Inserting Project Detail into database.

Inserting project details

Definition at line 224 of file database.cc.

7.3.3.6 void Database::InsertQuery (string *query*)

Function for executing InsertQuery.

[Database](#) Insert Query

Parameters

<i>query</i>	query for inserting into value
--------------	--------------------------------

Definition at line 109 of file database.cc.

7.3.3.7 void Database::InsertRegistrationDetail (string *emailID*, string *registrationKey*)

Inserting Registration detail.

Inserting into registration table

Parameters

<i>emailID</i>	emailID of user
<i>registrationKey</i>	Registration Key

Definition at line 199 of file database.cc.

7.3.3.8 void Database::InsertResetPassword (string *emailID*, string *resetKey*)

Insert into reset password table

Definition at line 208 of file database.cc.

7.3.3.9 void Database::InsertRollNoDetail (string *projectID*, string *classID*, string *prefix*, string *startRNo*, string *endRNo*, string *notIncluded*)

Inserting roll no details

7.3.3.10 void Database::InsertRoomDetail (string *projectID*, string *dateSheetID*, string *roomInfo*, string *centreName*, string *roomNo*, string *rows*, string *cols*)

Inserting room details

7.3.3.11 void Database::InsertSessionDetail (string *emailID*, string *sessionKey*)

Inserting into session detail table

Definition at line 325 of file database.cc.

7.3.3.12 void Database::InsertStrategyDetail (string *projectID*, string *dateSheetID*, string *strategyName*)

Inserting strategy details

7.3.3.13 void Database::InsertUserDetail (string *emailID*, string *password*)

Insert [User](#) detail into [User](#) table.

Inserting into [User](#) table

Parameters

<i>emailID</i>	Email Id
<i>password</i>	Password of user in encrypted form

Definition at line 182 of file database.cc.

7.3.3.14 void Database::InsertValidStrategy (string *projectID*, string *dateID*, string *date*, string *selectedStrategy*, string *totalSeats*, string *totalStudents*, string *totalGroupSeats*, string *totalGroupStudents*)

Inserting validation details for strategy

7.3.3.15 void Database::Query (string *query*)

Function to execute any query.

[Database](#) Query

Parameters

<i>query</i>	Holding MySQL Query
--------------	---------------------

Definition at line 50 of file database.cc.

7.3.3.16 void Database::SelectColumn (STRING_VEC & *result*, string *column*, string *table*, string *where* = " ")

Select column from table

Definition at line 140 of file database.cc.

7.3.3.17 void Database::SelectProjectID (string & *projectID*)

Select project ID from database.

Select Project ID from table

Parameters

<i>projectID</i>	Unique project ID
------------------	-------------------

Definition at line 164 of file database.cc.

7.3.3.18 Database::SelectQuery (string *query*, STRING_VEC & *result*)

Select Query for selecting single column from table.

Selecting column from table.

[Database](#) Select Query

Parameters

<i>query</i>	Select query
<i>result</i>	For storing selected column valued in result variable
<i>result</i>	
<i>column</i>	
<i>table</i>	
<i>where</i>	

Definition at line 87 of file database.cc.

7.3.3.19 void Database::SelectSum (string *column*, string *table*, string *projectID*, string & *result*)

Select sum for column in table

7.3.3.20 void Database::UpdateQuery (string *table*, string *column*, string *value*, string *where*)

Updating values in table.

[Database](#) Update Query

Parameters

<i>table</i>	Name of table in database
<i>column</i>	Column name in table
<i>value</i>	Value of column
<i>where</i>	Where clause if any

Definition at line 68 of file database.cc.

7.3.4 Member Data Documentation

7.3.4.1 MYSQL* Database::connect [protected]

MySQL connectivity Variables

Definition at line 34 of file database.h.

7.3.4.2 unsigned int Database::numrows [protected]

Unsigned int variable

Definition at line 38 of file database.h.

The documentation for this class was generated from the following files:

- src/cpp/frontend/header/[database.h](#)
- src/cpp/frontend/[database.cc](#)

7.4 DataSheet Class Reference

7.4.1 Detailed Description

Include [datesheet.h](#) file

The documentation for this class was generated from the following file:

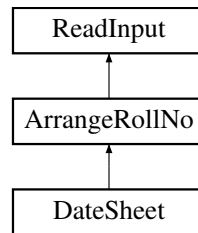
- src/cpp/backend/[datesheet.cc](#)

7.5 DateSheet Class Reference

[DateSheet](#) class for reading datesheet detail, class detail and create datesheet.out file for seating plan.

```
#include <datesheet.h>
```

Inheritance diagram for DateSheet:



Public Member Functions

- [DateSheet](#) ()
- void [AddRollNoWithDateSheet](#) ()
Adding roll no to with exam subject code in datesheet.
- void [WriteDateSheet](#) (string [projectId](#))
- void [Main](#) (string pID)
- [~DateSheet](#) ()

Additional Inherited Members

7.5.1 Detailed Description

[DateSheet](#) class for reading datesheet detail, class detail and create datesheet.out file for seating plan.

Include [arrangerollno.h](#) header file

Definition at line 27 of file datesheet.h.

7.5.2 Constructor & Destructor Documentation

7.5.2.1 [DateSheet::DateSheet](#) ()

Constructor

Definition at line 27 of file datesheet.cc.

7.5.2.2 [DateSheet::~~DateSheet](#) ()

Desructor

Definition at line 161 of file datesheet.cc.

7.5.3 Member Function Documentation

7.5.3.1 void [DateSheet::AddRollNoWithDateSheet](#) ()

Adding roll no to with exam subject code in datesheet.

Adding roll nos with date sheet

Definition at line 38 of file datesheet.cc.

7.5.3.2 void DateSheet::Main (string *pID*)

Main function to call other functions

Definition at line 143 of file datesheet.cc.

7.5.3.3 void DateSheet::WriteDateSheet (string *projectID*)

Writing datesheet.out file i.e. used for seating plan

Definition at line 99 of file datesheet.cc.

The documentation for this class was generated from the following files:

- src/cpp/backend/header/[datesheet.h](#)
- src/cpp/backend/[datesheet.cc](#)

7.6 ExpandRollNo Class Reference

Class for expanding roll nos.

```
#include <expandrollno.h>
```

7.6.1 Detailed Description

Class for expanding roll nos.

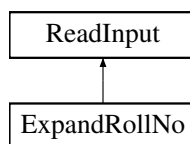
Include [readinput.h](#)

The documentation for this class was generated from the following file:

- src/cpp/backend/header/[expandrollno.h](#)

7.7 ExpandRollNo Class Reference

Inheritance diagram for ExpandRollNo:



Public Member Functions

- [ExpandRollNo](#) ()
- `template<typename OutIter >`
`bool ExpandRollNoList (istream &is, OutIter out)`
Template for expanding roll nos.
- `void ExpandRollNos (string projectID)`
Expanding Roll nos.
- `void WriteExpandRollNo (string projectID)`
Write expanded roll nos into file.
- `~ExpandRollNo ()`
Destructor.

Protected Attributes

- INT_VEC **rollNoSize**
- INT_VEC **notIncludedRNoSize**

7.7.1 Detailed Description

Definition at line 27 of file expandrollno.h.

7.7.2 Constructor & Destructor Documentation

7.7.2.1 ExpandRollNo::ExpandRollNo ()

Constructor

include [expandrollno.h](#)

Definition at line 22 of file expandrollno.cc.

7.7.2.2 ExpandRollNo::~~ExpandRollNo ()

Destructor.

Destructor

Definition at line 195 of file expandrollno.cc.

7.7.3 Member Function Documentation

7.7.3.1 template<typename OutIter > bool ExpandRollNo::ExpandRollNoList (istream & *is*, OutIter *out*)

Template for expanding roll nos.

Template for expanding roll no

Definition at line 94 of file expandrollno.cc.

7.7.3.2 void ExpandRollNo::ExpandRollNos (string *projectID*)

Expanding Roll nos.

For expanding roll no and calling ExpandRollNoList template

Parameters

<i>projectID</i>	Project ID of user's project
------------------	------------------------------

Definition at line 34 of file expandrollno.cc.

7.7.3.3 void ExpandRollNo::WriteExpandRollNo (string *projectID*)

Write expanded roll nos into file.

Write expanded roll no's in file

Parameters

<i>projectID</i>	Project ID of user's project
------------------	------------------------------

Definition at line 149 of file expandrollno.cc.

The documentation for this class was generated from the following files:

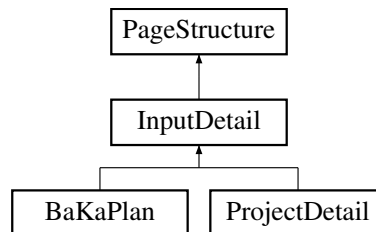
- [src/cpp/backend/header/expandrollno.h](#)
- [src/cpp/backend/expandrollno.cc](#)

7.8 InputDetail Class Reference

For declaring common variables and functions also used as base class.

```
#include <input_detail.h>
```

Inheritance diagram for InputDetail:

**Public Member Functions**

- [InputDetail](#) ()
Constructor.
- string [IntToString](#) (int value)
Converting integer to string.
- int [StringToInt](#) (string value)
Converting String to Int.
- string [FileName](#) (string file, string projectID, int fileType)
For creating filename w.r.t to projectID.
- [~InputDetail](#) ()
Destructor.

Public Attributes

- [Database](#) db
- [ReadInputField](#) readField

Protected Attributes

- int **i**
- int **j**
- int **k**
- int **l**
- stringstream **ss**
- string **temp**

- string [temp1](#)
- string **projectID**
- string **emailID**
- string [fileName](#)
- string [where](#)
- string [msg](#)
- STRING_VEC [vecTemp](#)
- STRING_VEC [oldProject](#)
- STRING_VEC [splitString](#)
- ifstream [inFile](#)
- ofstream [outFile](#)
- string [sessionID](#)

7.8.1 Detailed Description

For declaring common variables and functions also used as base class.

Definition at line 29 of file `input_detail.h`.

7.8.2 Constructor & Destructor Documentation

7.8.2.1 InputDetail::InputDetail ()

Constructor.

< Shortname for namespace

Definition at line 23 of file `input_detail.cc`.

7.8.3 Member Function Documentation

7.8.3.1 string InputDetail::FileName (string *file*, string *projectID*, int *fileType*)

For creating filename w.r.t to projectID.

Parameters

<i>projectID</i>	Unique ID i.e. used to read file of user
<i>file</i>	I/O file Name
<i>fileType</i>	For defining file type i.e I/P or O/P file. If fileType == 1, Input file If fileType == 0(else), Output File

Returns

`fileName` This function will return file name with project ID

Definition at line 82 of file `input_detail.cc`.

7.8.3.2 string InputDetail::IntToString (int *value*)

Converting integer to string.

Parameters

<i>value</i>	Value to be converted into string
--------------	-----------------------------------

Definition at line 35 of file input_detail.cc.

7.8.3.3 int InputDetail::StringToInt (string *value*)

Converting String to Int.

Parameters

<i>value</i>	String value to be converted into int
--------------	---------------------------------------

Definition at line 47 of file input_detail.cc.

7.8.4 Member Data Documentation**7.8.4.1 Database InputDetail::db**

DataBase class's object

Definition at line 60 of file input_detail.h.

7.8.4.2 string InputDetail::fileName [protected]

File name for opening file

Definition at line 42 of file input_detail.h.

7.8.4.3 ifstream InputDetail::inFile [protected]

For Reading file

Definition at line 54 of file input_detail.h.

7.8.4.4 int InputDetail::l [protected]

Looping Variables

Definition at line 34 of file input_detail.h.

7.8.4.5 string InputDetail::msg [protected]

For Displaying error message

Definition at line 42 of file input_detail.h.

7.8.4.6 STRING_VEC InputDetail::oldProject [protected]

For storing old projects if any

Definition at line 48 of file input_detail.h.

7.8.4.7 ofstream InputDetail::outFile [protected]

For writing file

Definition at line 55 of file input_detail.h.

7.8.4.8 ReadInputField InputDetail::readField

Reading Input fields

Definition at line 61 of file input_detail.h.

7.8.4.9 string InputDetail::sessionID [protected]

Session ID

Definition at line 56 of file input_detail.h.

7.8.4.10 STRING_VEC InputDetail::splitString [protected]

For storing values of splitted string

Definition at line 48 of file input_detail.h.

7.8.4.11 stringstream InputDetail::ss [protected]

For converting int to string

Definition at line 36 of file input_detail.h.

7.8.4.12 string InputDetail::temp1 [protected]

For temporary storage

Definition at line 37 of file input_detail.h.

7.8.4.13 STRING_VEC InputDetail::vecTemp [protected]

string Vector temporary use

Definition at line 48 of file input_detail.h.

7.8.4.14 string InputDetail::where [protected]

Temp variable to store where clause

Definition at line 42 of file input_detail.h.

The documentation for this class was generated from the following files:

- src/cpp/frontend/header/input_detail.h
- src/cpp/frontend/input_detail.cc

7.9 jwsmtplib::mailer Class Reference

Public Types

- enum {
 TO, **Cc**, **Bcc**, **SMTP_PORT** = 25,
 DNS_PORT = 53 }

- enum **authtype** { **LOGIN** = 1, **PLAIN** }

Public Member Functions

- **mailer** (const char *TOaddress, const char *FROMaddress, const char *Subject, const std::vector< char > &Message, const char *server="127.0.0.1", unsigned short Port=SMTP_PORT, bool MXLookup=true)
- **mailer** (const char *TOaddress, const char *FROMaddress, const char *Subject, const char *Message, const char *server="127.0.0.1", unsigned short Port=SMTP_PORT, bool MXLookup=true)
- **mailer** (bool MXLookup=false, unsigned short Port=SMTP_PORT)
- void **operator()** ()
- void **send** ()
- bool **attach** (const std::string &filename)
- bool **removeattachment** (const std::string &filename)
- bool **setmessage** (const std::string &newmessage)
- bool **setmessage** (const std::vector< char > &newmessage)
- bool **setmessageHTML** (const std::string &newmessage)
- bool **setmessageHTML** (const std::vector< char > &newmessage)
- bool **setmessageHTMLfile** (const std::string &filename)
- bool **setsubject** (const std::string &newSubject)
- bool **setserver** (const std::string &nameserver_or_smtpserver)
- bool **setsender** (const std::string &newsender)
- bool **addrecipient** (const std::string &newrecipient, short recipient_type=TO)
- bool **removereipient** (const std::string &recipient)
- void **clearrecipients** ()
- void **clearattachments** ()
- void **reset** ()
- const std::string & **response** () const
- void **authtype** (const enum authtype Type)
- void **username** (const std::string &[User](#))
- void **password** (const std::string &Pass)

Public Attributes

- enum jwsntp::mailer::authtype **type**

Static Public Attributes

- static const enum
jwsntp::mailer:: { ... } **consts**

7.9.1 Detailed Description

Definition at line 33 of file mailer.h.

The documentation for this class was generated from the following files:

- src/cpp/frontend/header/jwsntp/mailer.h
- src/cpp/frontend/header/jwsntp/mailer.cpp

7.10 MD5 Class Reference

Public Types

- typedef unsigned int **size_type**

Public Member Functions

- **MD5** (const std::string &text)
- void **update** (const unsigned char *buf, size_type length)
- void **update** (const char *buf, size_type length)
- **MD5** & **finalize** ()
- std::string **hexdigest** () const

Friends

- std::ostream & **operator**<< (std::ostream &, **MD5** md5)

7.10.1 Detailed Description

Definition at line 50 of file md5.h.

The documentation for this class was generated from the following files:

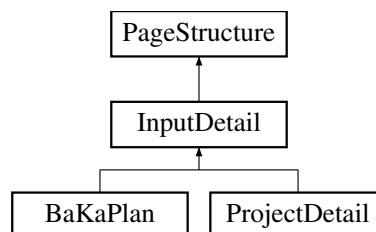
- src/cpp/frontend/header/md5.h
- src/cpp/frontend/md5.cc

7.11 PageStructure Class Reference

Declaring functions for common html tags and adding css and javascript files.

```
#include <page_structure.h>
```

Inheritance diagram for PageStructure:



Public Member Functions

- **PageStructure** ()
Constructor.
- void **CSS** (string href)
Adding CSS file in HTML Content.
- void **JS** (string src)
Adding Javascript file in HTML Page.
- void **CommonJSFiles** ()
Adding JS files for all pages.
- void **CommonCSSFiles** ()
Adding css files for all pages.
- void **SideMenu** ()
Side Menu Bar.
- **~PageStructure** ()
Destructor.

7.11.1 Detailed Description

Declaring functions for common html tags and adding css and javascript files.

Definition at line 28 of file `page_structure.h`.

7.11.2 Member Function Documentation

7.11.2.1 `void PageStructure::CSS (string href)`

Adding CSS file in HTML Content.

Parameters

<code>href</code>	reference link
-------------------	----------------

Definition at line 30 of file `page_structure.cc`.

7.11.2.2 `void PageStructure::JS (string src)`

Adding Javascript file in HTML Page.

Parameters

<code>src</code>	source link
------------------	-------------

Definition at line 42 of file `page_structure.cc`.

The documentation for this class was generated from the following files:

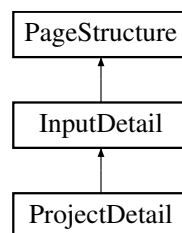
- `src/cpp/frontend/header/page_structure.h`
- `src/cpp/frontend/page_structure.cc`

7.12 ProjectDetail Class Reference

Reading Project details from database, browser and save values in database.

```
#include <project_detail.h>
```

Inheritance diagram for ProjectDetail:



Public Member Functions

- `ProjectDetail ()`
Constructor.
- `void ReadProjectDetail ()`
Reading Project detail filled by user.
- `void WriteProjectDetail ()`

Writing Project detail into file and database.

- void [ProjectDetailPage](#) ()
HTML Project Detail Page.
- [~ProjectDetail](#) ()
Desrtuctor.

Protected Attributes

- string **projectID**
- string **emailID**
- string **projectName**

Additional Inherited Members

7.12.1 Detailed Description

Reading Project details from database, browser and save values in database.

Definition at line 26 of file `project_detail.h`.

The documentation for this class was generated from the following files:

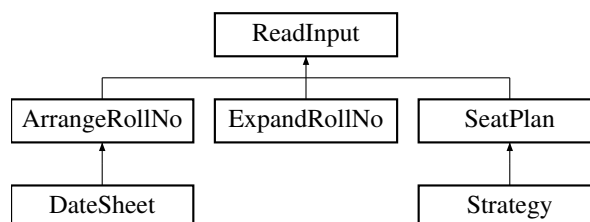
- `src/cpp/frontend/header/project_detail.h`
- `src/cpp/frontend/project_detail.cc`

7.13 ReadInput Class Reference

Class for reading input files ie reading roll no details, class detail, room detail, etc.

```
#include <readinput.h>
```

Inheritance diagram for ReadInput:



Public Member Functions

- [ReadInput](#) ()
Constructor.
- string [FileName](#) (string file, string [projectID](#), int fileType)
For creating filename w.r.t to projectID.
- void [ReadRollNoDetail](#) (string [projectID](#))
Reading Roll No detail from file.
- void [ReadClassDetail](#) (string [projectID](#))
Reading class details.
- void [ReadDateSheet](#) (string [projectID](#))

- *Reading datesheet.*
- void [ReadDateSheetOut](#) (string [projectId](#))
- *Reading datesheet.out file.*
- void [ReadRoomDetail](#) (string [projectId](#))
- *Reading room details.*
- void [ReadStrategy](#) (string [projectId](#))
- *Function for reading strategy.*
- void [ReadExamDetail](#) (string [projectId](#))
- *Reading Exam DEtails.*
- [~ReadInput](#) ()
- *Destructor.*

Protected Attributes

- `STRING_VEC` [prefix](#)
- `STRING_VEC` [rollNo](#)
- `STRING_VEC` [notIncluded](#)
- `STRING_VEC` [className](#)
- `STRING_VEC` [date](#)
- `STRING_VEC` [strategyOption](#)
- `STRING_VEC` [examName](#)
- `STRING_VEC` [examSession](#)
- `STRING_VEC` [examTime](#)
- `STRING_VEC` [examVenue](#)
- `STRING_VEC` [examDate](#)
- `STRING_2DVEC` [subjectCode](#)
- `STRING_2DVEC` [subjectName](#)
- `STRING_2DVEC` [examSubCode](#)
- `STRING_2DVEC` [examSubName](#)
- `STRING_2DVEC` [centreName](#)
- `STRING_3DVEC` [roomNo](#)
- `int` [totalClasses](#)
- `int` [totalDays](#)
- `INT_VEC` [totalSubjects](#)
- `INT_VEC` [totalExams](#)
- `INT_VEC` [totalCentres](#)
- `INT_2DVEC` [totalRooms](#)
- `INT_3DVEC` [rows](#)
- `INT_3DVEC` [cols](#)
- `ifstream` [inFile](#)
- `ofstream` [outFile](#)
- `string` [fileName](#)
- `string` [temp](#)
- `int` [i](#)
- `int` [j](#)
- `int` [k](#)
- `int` [l](#)
- `int` [m](#)
- `int` [n](#)
- `string` [projectId](#)
- `INT_2DVEC` [dateSheetRNoSize](#)
- `STRING_3DVEC` [dateSheetRNo](#)

7.13.1 Detailed Description

Class for reading input files ie reading roll no details, class detail, room detail, etc.

Include local header file

Include [readinput.h](#) file

Definition at line 31 of file readinput.h.

7.13.2 Constructor & Destructor Documentation

7.13.2.1 ReadInput::ReadInput ()

Constructor.

Constructor

Definition at line 27 of file readinput.cc.

7.13.2.2 ReadInput::~~ReadInput ()

Destructor.

Desrtuctor

Definition at line 378 of file readinput.cc.

7.13.3 Member Function Documentation

7.13.3.1 string ReadInput::FileName (string *file*, string *projectID*, int *fileType*)

For creating filename w.r.t to projectID.

Retruning filename w.r.t. to project ID

Parameters

<i>projectID</i>	Unique ID i.e. used to read file of user
<i>file</i>	I/O file Name
<i>fileType</i>	For defining file type i.e I/P or O/P file. If fileType == 1, Input file If fileType == 0(else), Output File

Returns

fileName This function will return file name with project ID

Definition at line 48 of file readinput.cc.

7.13.3.2 void ReadInput::ReadClassDetail (string *fileName*)

Reading class details.

Reading Class details from I/P file

Parameters

<i>fileName</i>	I/P filename for class detail
-----------------	-------------------------------

Definition at line 267 of file readinput.cc.

7.13.3.3 void ReadInput::ReadDateSheet (string *fileName*)

Reading datesheet.

Reading Datesheet

Parameters

<i>fileName</i>	Name of I/P file
-----------------	------------------

Definition at line 312 of file readinput.cc.

7.13.3.4 void ReadInput::ReadDateSheetOut (string *projectID*)

Reading datesheet.out file.

Read date sheet with roll nos

Parameters

<i>projectID</i>	ProjectID
------------------	-----------

Definition at line 68 of file readinput.cc.

7.13.3.5 void ReadInput::ReadExamDetail (string *projectID*)

Reading Exam DEtails.

Reading exam details

Definition at line 232 of file readinput.cc.

7.13.3.6 void ReadInput::ReadRollNoDetail (string *fileName*)

Reading Roll No detail from file.

Reading Roll No details from I/P file

Parameters

<i>projectID</i>	Name of I/P file for roll nos.
------------------	--------------------------------

Definition at line 201 of file readinput.cc.

7.13.3.7 void ReadInput::ReadRoomDetail (string *projectID*)

Reading room details.

Read Room Details

Parameters

<i>projectID</i>	projectId of user's project
------------------	-----------------------------

Definition at line 134 of file readinput.cc.

7.13.3.8 void ReadInput::ReadStrategy (string *projectID*)

Function for reading strategy.

Reading strategy choice from strategy.in file

Parameters

<i>projectID</i>	projectId of user's project
------------------	-----------------------------

Definition at line 355 of file readinput.cc.

7.13.4 Member Data Documentation**7.13.4.1 STRING_2DVEC ReadInput::centreName [protected]**

Centre NAmE

Definition at line 50 of file readinput.h.

7.13.4.2 STRING_VEC ReadInput::className [protected]

Branch/trade/class Name

Definition at line 35 of file readinput.h.

7.13.4.3 INT_3DVEC ReadInput::cols [protected]

columns in room

Definition at line 67 of file readinput.h.

7.13.4.4 STRING_VEC ReadInput::date [protected]

Date for examination

Definition at line 35 of file readinput.h.

7.13.4.5 STRING_3DVEC ReadInput::dateSheetRNo [protected]

Roll Nos w.r.t

datesheet

Definition at line 83 of file readinput.h.

7.13.4.6 INT_2DVEC ReadInput::dateSheetRNoSize [protected]

Total roll nos

for exam code

Definition at line 81 of file readinput.h.

7.13.4.7 STRING_2DVEC ReadInput::examSubCode [protected]

Examination/subject code

Definition at line 50 of file readinput.h.

7.13.4.8 `STRING_2DVEC ReadInput::examSubName` `[protected]`

Exam/ subejct Name

Definition at line 50 of file readinput.h.

7.13.4.9 `string ReadInput::fileName` `[protected]`

I/O file name

Definition at line 73 of file readinput.h.

7.13.4.10 `ifstream ReadInput::inFile` `[protected]`

For reading data from file

Definition at line 70 of file readinput.h.

7.13.4.11 `int ReadInput::n` `[protected]`

for looping

Definition at line 76 of file readinput.h.

7.13.4.12 `STRING_VEC ReadInput::notIncluded` `[protected]`

Rollno ie not for seating plan

Definition at line 35 of file readinput.h.

7.13.4.13 `ofstream ReadInput::outFile` `[protected]`

for writing data into file

Definition at line 71 of file readinput.h.

7.13.4.14 `STRING_VEC ReadInput::prefix` `[protected]`

Prefix of rollno

Definition at line 35 of file readinput.h.

7.13.4.15 `string ReadInput::projectID` `[protected]`

Project id of user's project

Definition at line 78 of file readinput.h.

7.13.4.16 `STRING_VEC ReadInput::rollNo` `[protected]`

rollno range

Definition at line 35 of file readinput.h.

7.13.4.17 `STRING_3DVEC ReadInput::roomNo` `[protected]`

Room No

Definition at line 56 of file readinput.h.

7.13.4.18 `INT_3DVEC ReadInput::rows` `[protected]`

Rows in room

Definition at line 67 of file readinput.h.

7.13.4.19 `STRING_VEC ReadInput::strategyOption` `[protected]`

[Strategy](#) option selected by user

Definition at line 35 of file readinput.h.

7.13.4.20 `STRING_2DVEC ReadInput::subjectCode` `[protected]`

Subject Code

Definition at line 50 of file readinput.h.

7.13.4.21 `STRING_2DVEC ReadInput::subjectName` `[protected]`

Subject Name

Definition at line 50 of file readinput.h.

7.13.4.22 `string ReadInput::temp` `[protected]`

For temporary use

Definition at line 73 of file readinput.h.

7.13.4.23 `INT_VEC ReadInput::totalCentres` `[protected]`

Total centres

Definition at line 61 of file readinput.h.

7.13.4.24 `int ReadInput::totalClasses` `[protected]`

Total classes/branches/trades

Definition at line 58 of file readinput.h.

7.13.4.25 `int ReadInput::totalDays` `[protected]`

No. of days in datesheet

Definition at line 58 of file readinput.h.

7.13.4.26 INT_VEC ReadInput::totalExams [protected]

Total exams on 1 day

Definition at line 61 of file readinput.h.

7.13.4.27 INT_2DVEC ReadInput::totalRooms [protected]

total rooms in centre

Definition at line 65 of file readinput.h.

7.13.4.28 INT_VEC ReadInput::totalSubjects [protected]

Total subejcts of class

Definition at line 61 of file readinput.h.

The documentation for this class was generated from the following files:

- src/cpp/backend/header/[readinput.h](#)
- src/cpp/backend/[readinput.cc](#)

7.14 ReadInputField Class Reference

For reading values of fields like textbox, select, etc.

```
#include <read_inputfield.h>
```

Public Member Functions

- string [ReadFieldValue](#) (string fieldName)
Read field's value and return it as string.
- string [ReadFieldValue](#) (string fieldName, int fieldNo)
Read field's value and return it as string.
- void [SetCookie](#) (string cookieName, string value)
Set session cookie.

Protected Attributes

- string [fieldValue](#)
- Cgicc [formData](#)
- form_iterator [fi](#)

7.14.1 Detailed Description

For reading values of fields like textbox, select, etc.

Definition at line 29 of file read_inputfield.h.

7.14.2 Member Function Documentation

7.14.2.1 string ReadInputField::ReadFieldValue (string fieldName)

Read field's value and return it as string.

Parameters

<i>fieldName</i>	Input field name
------------------	------------------

Definition at line 22 of file read_inputfield.cc.

7.14.2.2 string ReadInputField::ReadFieldValue (string *fieldName*, int *fieldNo*)

Read field's value and return it as string.

Parameters

<i>fieldName</i>	Input field name
<i>fieldNo</i>	Input field no to identify fields with same name.

Definition at line 44 of file read_inputfield.cc.

7.14.2.3 void ReadInputField::SetCookie (string *cookieName*, string *value*)

Set session cookie.

Parameters

<i>cookieName</i>	Name of cookie
<i>value</i>	Value of cookie

Definition at line 60 of file read_inputfield.cc.

7.14.3 Member Data Documentation

7.14.3.1 form_iterator ReadInputField::fi [protected]

Form Iterator

Definition at line 36 of file read_inputfield.h.

7.14.3.2 string ReadInputField::fieldValue [protected]

Input Field Value

Definition at line 32 of file read_inputfield.h.

7.14.3.3 Cgicc ReadInputField::formData [protected]

Read Form Data

Definition at line 35 of file read_inputfield.h.

The documentation for this class was generated from the following files:

- src/cpp/frontend/header/read_inputfield.h
- src/cpp/frontend/read_inputfield.cc

7.15 Seatplan Class Reference

The documentation for this class was generated from the following file:

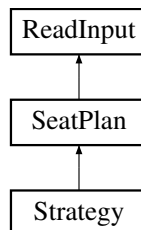
- src/cpp/backend/[seatplan.cc](#)

7.16 SeatPlan Class Reference

[SeatPlan](#) CClass for generating seating plan.

```
#include <report.h>
```

Inheritance diagram for [SeatPlan](#):



Public Member Functions

- [RoomReport](#) ()
- void [ReadExamDetail](#) (string [projectId](#))
- void [ReadSeatPlan](#) (string [projectId](#))
- void [WriteHTMLFile](#) (string [projectId](#))
- [~RoomReport](#) ()
- [SeatPlan](#) ()
Constructor.
- void **SetRollNo** (int strategy, int i)
- string **RollNo** (int s)
- void **SeatingPlan** (int strategy, int i)
- void **CreateFile** (string [projectId](#))
- void **WriteSeatPlan** (string [projectId](#), int i)
- void [WriteHTMLFile](#) (string [projectId](#), int i)
Creating HTML file.
- void **WritePDFFile** (string [projectId](#), int i)
- void **AddRollNoInfo** (string [projectId](#), int i)
- [~SeatPlan](#) ()
DEstructor.

Protected Attributes

- int **totalSeats**
- int **totalStudents**
- int **totalGroupSeats**
- int **day**
- INT_VEC **iTemp**
- INT_VEC **indexValue**
- INT_VEC **groupStudentSize**
- INT_VEC **seatSize**
- INT_VEC **size**
- INT_3DVEC **roomSize**
- STRING_VEC **subSubCode**
- STRING_2DVEC **seatRollNo**
- STRING_2DVEC **subRollNo**
- STRING_4DVEC **seat**

- int **textWidth**
- int **textWidth1**
- int **rectWidth**
- int **x**
- int **y**
- int **width**
- int **height**
- int **centre**
- int **room**
- int **room1**
- int **row**
- int **col**
- int **s**
- int **start**
- int **end**
- int **index**

7.16.1 Detailed Description

[SeatPlan](#) CClass for generating seating plan.

Include local header file

include [readinput.h](#)

include [seatplan.h](#) file

Definition at line 25 of file report.h.

7.16.2 Constructor & Destructor Documentation

7.16.2.1 [SeatPlan::~~RoomReport \(\)](#)

Destructor

7.16.2.2 [SeatPlan::SeatPlan \(\)](#)

Constructor.

Constructor

Definition at line 28 of file seatplan.cc.

7.16.2.3 [SeatPlan::~~SeatPlan \(\)](#)

DEstructor.

Destructor

Definition at line 593 of file seatplan.cc.

7.16.3 Member Function Documentation

7.16.3.1 [void SeatPlan::ReadExamDetail \(string *projectId* \)](#)

Read Exam Detail

7.16.3.2 void SeatPlan::ReadSeatPlan (string *projectID*)

Read Seat Plan

7.16.3.3 SeatPlan::RoomReport ()

Constructor

7.16.3.4 void SeatPlan::WriteHTMLFile (string *projectID*)

WriteHTMLFile

7.16.3.5 void SeatPlan::WriteHTMLFile (string *projectID*, int *i*)

Creating HTML file.

Parameters

<i>projectID</i>	Project Id of seating plan project
<i>i</i>	For creating file accord to datesheet

Definition at line 311 of file seatplan.cc.

The documentation for this class was generated from the following files:

- src/cpp/backend/header/[report.h](#)
- src/cpp/backend/header/[seatplan.h](#)
- src/cpp/backend/[seatplan.cc](#)

7.17 SendMail Class Reference

Class for sending mail to user for registration and for changing password.

```
#include <sendmail.h>
```

Public Member Functions

- [SendMail](#) ()
Constructor.
- void [SetMailData](#) ()
Settinf variable that are used to send mail.
- void [SetHTMLMessage](#) (string regKey, string mail)
Setting body of mail(message ie send to user)
- void [RegistrationMail](#) (string setRecipient, string regKey)
Sending registration mail to user.
- void [ResetPasswordMail](#) (string setRecipient, string regKey)
Sending mail to user for changing password.
- void [ContactMail](#) (string [setSender](#), string msg)
Sending mail to developer from user.
- [~SendMail](#) ()
Destructor.

Protected Attributes

- string [setSender](#)
- string [setSubject](#)
- string [setMessage](#)
- string [setServer](#)
- string [htmlMessage](#)
- string [url](#)

7.17.1 Detailed Description

Class for sending mail to user for registration and for changing password.

Definition at line 34 of file `sendmail.h`.

7.17.2 Member Function Documentation

7.17.2.1 void SendMail::ContactMail (string *setSender*, string *msg*)

Sending mail to developer from user.

Contact mail to developer send by user

Parameters

<i>setSender</i>	Sender's email id.
<i>msg</i>	Message send by user for developer.

Definition at line 144 of file `sendmail.cc`.

7.17.2.2 void SendMail::RegistrationMail (string *setRecipient*, string *regKey*)

Sending registration mail to user.

Registration email for new user

Parameters

<i>setRecipient</i>	Receiver's email id
<i>regKey</i>	Registration key

Definition at line 89 of file `sendmail.cc`.

7.17.2.3 void SendMail::ResetPasswordMail (string *setRecipient*, string *regKey*)

Sending mail to user for changing password.

Sending mail to reset password

Parameters

<i>setRecipient</i>	Receiver's email id
<i>regKey</i>	Registration key

Definition at line 117 of file `sendmail.cc`.

7.17.2.4 void SendMail::SetHTMLMessage (string *regKey*, string *mail*)

Setting body of mail(message ie send to user)

HTML Message of mail

Parameters

<i>regKey</i>	Registration Key
<i>mail</i>	Mail type - regiter/confirm/reset-password

Definition at line 47 of file `sendmail.cc`.

7.17.2.5 void SendMail::SetMailData ()

Settinf variable that are used to send mail.

Setting mail information

Definition at line 33 of file `sendmail.cc`.

7.17.3 Member Data Documentation

7.17.3.1 string SendMail::htmlMessage [protected]

Message in html form

Definition at line 38 of file `sendmail.h`.

7.17.3.2 string SendMail::setMessage [protected]

Plain/Rich text mail

Definition at line 38 of file `sendmail.h`.

7.17.3.3 string SendMail::setSender [protected]

Sender's email id

Definition at line 38 of file `sendmail.h`.

7.17.3.4 string SendMail::setServer [protected]

Server: localhost or domain name

Definition at line 38 of file `sendmail.h`.

7.17.3.5 string SendMail::setSubject [protected]

Subject of mail

Definition at line 38 of file `sendmail.h`.

7.17.3.6 string SendMail::url [protected]

Confirmation link or url

Definition at line 38 of file `sendmail.h`.

The documentation for this class was generated from the following files:

- `src/cpp/frontend/header/sendmail.h`
- `src/cpp/frontend/sendmail.cc`

7.18 jwsntp::SOCKADDR_IN Struct Reference

Public Member Functions

- **SOCKADDR_IN** (const std::string &address, unsigned short port, short family=AF_INET)
- **SOCKADDR_IN** (const [SOCKADDR_IN](#) &addr)
- **SOCKADDR_IN** **operator=** (const [SOCKADDR_IN](#) &addr)
- **operator bool** () const
- **operator const sockaddr_in** () const
- **operator const sockaddr** () const
- size_t **get_size** () const
- char * **get_sin_addr** ()
- void **set_port** (unsigned short newport)
- void **set_ip** (const std::string &newip)
- void **zeroaddress** ()

Public Attributes

- sockaddr_in **ADDR**

7.18.1 Detailed Description

Definition at line 84 of file compat.h.

The documentation for this struct was generated from the following file:

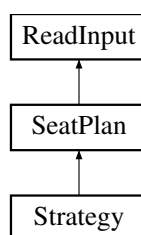
- src/cpp/frontend/header/jwsntp/compat.h

7.19 Strategy Class Reference

[Strategy](#) class to check selected strategy is valid or not for seating plan.

```
#include <strategy.h>
```

Inheritance diagram for Strategy:



Public Member Functions

- [Strategy](#) ()
Constructor.
- void [ChooseStrategy](#) ()
Select [Strategy](#).
- void **TotalSeats** (int strategy, int i)
- void **TotalStudents** (int i)

- void **CheckValidation** (int strategy, int i)
- void **TotalGroupStudents** (int strategy, int i)
- void **GroupCondition** (int strategy, int i)
- void **Main** (string pID)

Main Function to call all other functions.

- string **IntToString** (int value)
- **~Strategy** ()

Destructor.

Protected Attributes

- STRING_VEC **strategyName**
- int **totalStrategy**
- Database **db**
- stringstream **ss**

7.19.1 Detailed Description

Strategy class to check selected strategy is valid or not for seating plan.

include [seatplan.h](#) file

include [strategy.h](#)

Definition at line 30 of file [strategy.h](#).

7.19.2 Constructor & Destructor Documentation

7.19.2.1 Strategy::Strategy ()

Constructor.

Constructor

Definition at line 28 of file [strategy.cc](#).

7.19.2.2 Strategy::~~Strategy ()

Destructor.

Destructor

Definition at line 301 of file [strategy.cc](#).

7.19.3 Member Function Documentation

7.19.3.1 void Strategy::Main (string pID)

Main Function to call all other functions.

Parameters

<i>pID</i>	project ID of user's project
------------	------------------------------

Definition at line 275 of file strategy.cc.

7.19.4 Member Data Documentation

7.19.4.1 `STRING_VEC Strategy::strategyName` `[protected]`

Name of [Strategy](#)

Definition at line 33 of file strategy.h.

7.19.4.2 `int Strategy::totalStrategy` `[protected]`

Total Strategies

Definition at line 34 of file strategy.h.

The documentation for this class was generated from the following files:

- `src/cpp/backend/header/strategy.h`
- `src/cpp/backend/strategy.cc`

7.20 User Class Reference

[User](#) class for registration of new user and login if user already registered.

```
#include <user.h>
```

Public Member Functions

- [User](#) ()
Constructor.
- void [ReadSignUpForm](#) ()
Reading Sign up detail fields filled by user.
- void [ReadLoginForm](#) ()
Reading login detail form filled by user.
- void [SelectUserDetail](#) ()
Select user's email id and password from database.
- void [LoginUser](#) ()
Login user if entered email and password matched with values in database.
- void [SignUpUser](#) ()
Sign Up new user. If already registered then show error message.
- void [ConfirmUser](#) ()
- void [SetPassword](#) ()
- string [Time](#) ()
For finding current time using boost library.
- [~User](#) ()
Destructor.

Protected Attributes

- Database database
- ReadInputField readField
- SendMail sendMail
- STRING_VEC emailID
- STRING_VEC password
- STRING_VEC regKey
- STRING_VEC vecTemp
- string userEmailID
- string userPassword
- string retypePassword
- string currentTime
- string sessionID
- string key
- string msg
- string temp
- string where

7.20.1 Detailed Description

User class for registration of new user and login if user already registered.

Definition at line 27 of file user.h.

7.20.2 Member Function Documentation

7.20.2.1 void User::LoginUser ()

Login user if entered email and password matched with values in database.

Matching user details with values in database

< If Email ID valid

< If Password Correct

< If Password Incorrect

< If Email ID invalid

Definition at line 71 of file user.cc.

7.20.3 Member Data Documentation

7.20.3.1 string User::currentTime [protected]

Current Time

Definition at line 43 of file user.h.

7.20.3.2 Database User::database [protected]

DataBase

Definition at line 30 of file user.h.

7.20.3.3 `STRING_VEC User::emailID` [protected]

Email ID as vector

Definition at line 34 of file user.h.

7.20.3.4 `string User::msg` [protected]

Confirmation Link Key Store error/info Message

Definition at line 43 of file user.h.

7.20.3.5 `STRING_VEC User::password` [protected]

password as vector variable

Definition at line 34 of file user.h.

7.20.3.6 `STRING_VEC User::regKey` [protected]

Registration key

Definition at line 34 of file user.h.

7.20.3.7 `string User::retypePassword` [protected]

For reading password

Definition at line 39 of file user.h.

7.20.3.8 `string User::sessionID` [protected]

Session Key

Definition at line 43 of file user.h.

7.20.3.9 `string User::temp` [protected]

Temporary variable

Definition at line 43 of file user.h.

7.20.3.10 `string User::userEmailID` [protected]

For reading emailID in text field

Definition at line 39 of file user.h.

7.20.3.11 `string User::userPassword` [protected]

For reading password in text field

Definition at line 39 of file user.h.

7.20.3.12 `STRING_VEC User::vecTemp` `[protected]`

Vector temp variable

Definition at line 34 of file `user.h`.

7.20.3.13 `string User::where` `[protected]`

where clause

Definition at line 43 of file `user.h`.

The documentation for this class was generated from the following files:

- `src/cpp/frontend/header/user.h`
- `src/cpp/frontend/user.cc`

Chapter 8

File Documentation

8.1 `src/cpp/backend/arrangerollno.cc` File Reference

Function definition of [ArrangeRollNo](#) class.

```
#include "header/arrangerollno.h"
```

8.1.1 Detailed Description

Function definition of [ArrangeRollNo](#) class.

Version

0.8

Date

Sunday 31 March 2013 06:50:00 IST
Compiler g++

Author

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Definition in file [arrangerollno.cc](#).

8.2 `src/cpp/backend/datesheet.cc` File Reference

Definition of member functions of Datesheet class.

```
#include "header/datesheet.h"
```

8.2.1 Detailed Description

Definition of member functions of Datesheet class.

Version

0.8

Date

Sunday 31 March 2013 09:39:11 IST
Compiler g++

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Definition in file [datesheet.cc](#).

8.3 src/cpp/backend/expandrollno.cc File Reference

Function definition of [ExpandRollNo](#) class definition.

```
#include "header/expandrollno.h"
```

8.3.1 Detailed Description

Function definition of [ExpandRollNo](#) class definition.

Version

0.8

Date

Sunday 31 March 2013 06:49:23 IST
Compiler g++

Author

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Definition in file [expandrollno.cc](#).

8.4 src/cpp/backend/header/arrangerollno.h File Reference

[ArrangeRollNo](#) class for arranging roll no, sorting, and removing roll nos that are not required for seating plan.

```
#include "expandrollno.h"
```

Classes

- class [ArrangeRollNo](#)

Arrange roll no class for sorting, removing redundant roll nos and also excludeing roll nos that are not for seating plan.

8.4.1 Detailed Description

[ArrangeRollNo](#) class for arranging roll no, sorting, and removing roll nos that are not required for seating plan.

Version

0.8

Date

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Compiler g++

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Definition in file [arrangerollno.h](#).

8.5 src/cpp/backend/header/datesheet.h File Reference

Datesheet class definition.

```
#include "arrangerollno.h"
```

Classes

- class [DateSheet](#)

[DateSheet](#) class for reading datesheet detail, class detail and create datesheet.out file for seating plan.

8.5.1 Detailed Description

Datesheet class definition.

Version

0.8

Date

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Definition in file [datesheet.h](#).

8.6 src/cpp/backend/header/expandrollno.h File Reference

[ExpandRollNo](#) class declaration for expanding roll nos.

```
#include "readinput.h"
```

Classes

- class [ExpandRollNo](#)

8.6.1 Detailed Description

[ExpandRollNo](#) class declaration for expanding roll nos.

Version

0.8

Date

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Definition in file [expandrollno.h](#).

8.7 src/cpp/backend/header/readinput.h File Reference

Declaration of [ReadInput](#) class for reading input details from file.

```
#include "header.h"
```

Classes

- class [ReadInput](#)

Class for reading input files ie reading roll no details, class detail, room detail, etc.

8.7.1 Detailed Description

Declaration of [ReadInput](#) class for reading input details from file.

Version

0.8

Date

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Compiler g++

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Definition in file [readinput.h](#).

8.8 src/cpp/backend/header/report.h File Reference

Report class definition.

```
#include "seatplan.h"
```

Classes

- class [SeatPlan](#)

[SeatPlan](#) CClass for generating seating plan.

8.8.1 Detailed Description

Report class definition.

Version

0.8

Date

Wednesday 03 April 2013 05:05:51 IST
Compiler g++

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Definition in file [report.h](#).

8.9 src/cpp/backend/header/seatplan.h File Reference

Declaration of [SeatPlan](#) class for generating seating plan.

```
#include "readinput.h"
```

Classes

- class [SeatPlan](#)
[SeatPlan](#) CClass for generating seating plan.

8.9.1 Detailed Description

Declaration of [SeatPlan](#) class for generating seating plan.

Version

0.8

Date

Tuesday 02 April 2013 02:05:39 IST
Compiler g++

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Definition in file [seatplan.h](#).

8.10 src/cpp/backend/header/strategy.h File Reference

[Strategy](#) class for checking selected strategy is valid for seating plan or not.

```
#include "seatplan.h"
#include "../..//header/database.h"
```

Classes

- class [Strategy](#)

[Strategy](#) class to check selected strategy is valid or not for seating plan.

8.10.1 Detailed Description

[Strategy](#) class for checking selected strategy is valid for seating plan or not.

Version

0.8

Date

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Compiler g++

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Definition in file [strategy.h](#).

8.11 src/cpp/backend/main.cpp File Reference

Main Method.

```
#include "header/datesheet.h"
#include "header/strategy.h"
```

Functions

- int [main](#) (void)

main function for declaring object of [User](#) class to register new user.

8.11.1 Detailed Description

Main Method.

Version

0.8

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Definition in file [main.cpp](#).

8.11.2 Function Documentation

8.11.2.1 main (void)

main function for declaring object of [User](#) class to register new user.

main function for declaring object of user class to register new user.

Definition at line 20 of file main.cpp.

8.12 src/cpp/backend/readinput.cc File Reference

Function Definition of [ReadInput](#) Class.

```
#include "header/readinput.h"
```

8.12.1 Detailed Description

Function Definition of [ReadInput](#) Class.

Version

0.8

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Compiler g++

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Definition in file [readinput.cc](#).

8.13 src/cpp/backend/report.cc File Reference

Report Class's member function definition for generating report.

```
#include "header/report.h"
```

8.13.1 Detailed Description

Report Class's member function definition for generating report.

Version

0.8

Date

Wednesday 03 April 2013 05:03:54 IST

Compiler g++

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Definition in file [report.cc](#).

8.14 src/cpp/backend/seatplan.cc File Reference

Function definition of [SeatPlan](#) Class.

```
#include "header/seatplan.h"
```

Functions

- void **error_handler** (HPDF_STATUS error_no, HPDF_STATUS detail_no, void *user_data)

Variables

- jmp_buf **env**

8.14.1 Detailed Description

Function definition of [SeatPlan](#) Class.

Version

0.8

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Compiler g++

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Definition in file [seatplan.cc](#).

8.15 src/cpp/backend/strategy.cc File Reference

Function definition of [Strategy](#) class.

```
#include "header/strategy.h"
```

8.15.1 Detailed Description

Function definition of [Strategy](#) class.

Version

0.8

Date

Tuesday 02 April 2013 03:02:04 IST
Compiler g++

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Definition in file [strategy.cc](#).

8.16 src/cpp/frontend/bakaplan.cc File Reference

Main Class for calling all pages and executing functions according to its flow

```
.  
#include "header/bakaplan.h"
```

8.16.1 Detailed Description

Main Class for calling all pages and executing functions according to its flow

. g++

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Definition in file [bakaplan.cc](#).

8.17 src/cpp/frontend/bakaplan_main.cpp File Reference

Baithne Ka Plan

```
.  
#include "header/bakaplan.h"
```

Functions

- int **main** (void)

8.17.1 Detailed Description

Baithne Ka Plan

. g++

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Definition in file [bakaplan_main.cpp](#).

8.18 src/cpp/frontend/database.cc File Reference

Definition of functions for database connectivity and accessing database.

```
#include "header/database.h"
```

8.18.1 Detailed Description

Definition of functions for database connectivity and accessing database. g++

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Definition in file [database.cc](#).

8.19 src/cpp/frontend/header/bakaplan.h File Reference

Main class for calling all other classes

.

```
#include "header.h"
```

```
#include "project_detail.h"
```

Classes

- class [BaKaPlan](#)

Main Project class.

8.19.1 Detailed Description

Main class for calling all other classes

. g++

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Definition in file [bakaplan.h](#).

8.20 src/cpp/frontend/header/cgicc.h File Reference

Including header files required for using cgiic linrary.

```
#include <cgicc/CgiDefs.h>
#include <cgicc/Cgicc.h>
#include <cgicc/HTTPHTMLHeader.h>
#include <cgicc/HTMLClasses.h>
#include <cgicc/HTTPRedirectHeader.h>
```

8.20.1 Detailed Description

Including header files required for using cgiic linrary. g++

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Definition in file [cgicc.h](#).

8.21 src/cpp/frontend/header/database.h File Reference

Declaring [Database](#) class for creating specific functions for accessing database.

```
#include "header.h"
#include "database_detail.h"
#include <mysql.h>
```

Classes

- class [Database](#)

Declaring functions for database conectivity and accessing database.

8.21.1 Detailed Description

Declaring [Database](#) class for creating specific functions for accessing database. g++

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Definition in file [database.h](#).

8.22 src/cpp/frontend/header/page_structure.h File Reference

functions for HTML tags which are commonly used and including common css and js files

```
#include <iostream>
#include <string>
```

Classes

- class [PageStructure](#)

Declaring functions for common html tags and adding css and javascript files.

8.22.1 Detailed Description

functions for HTML tags which are commonly used and including common css and js files

g++

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Definition in file [page_structure.h](#).

8.23 src/cpp/frontend/header/sendmail.h File Reference

[SendMail](#) class declaration for sending mails to user for registration or reset password link as confirmation mail.

```
#include <iostream>
#include "jwsmtplib/jwsmtplib.h"
#include "sendmail_detail.h"
```

Classes

- class [SendMail](#)

Class for sending mail to user for registration and for changing password.

8.23.1 Detailed Description

[SendMail](#) class declaration for sending mails to user for registration or reset password link as confirmation mail. g++

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Definition in file [sendmail.h](#).

8.24 src/cpp/frontend/header/user.h File Reference

Sign up and login module. Authenticate user for logging in or registration of new user.

.

```
#include "header.h"
#include "database.h"
#include "read_inputfield.h"
#include "sendmail.h"
#include "md5.h"
```

Classes

- class [User](#)

[User](#) class for registration of new user and login if user already registered.

8.24.1 Detailed Description

Sign up and login module. Authenticate user for logging in or registration of new user.

. Compiler g++

Author

Mandeep Kaur, meghasimak@gmail.com

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Definition in file [user.h](#).

8.25 src/cpp/frontend/input_detail.cc File Reference

Definition of functions

.

```
#include "header/input_detail.h"
#include "header/filename.h"
```

8.25.1 Detailed Description

Definition of functions

. g++

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Definition in file [input_detail.cc](#).

8.26 src/cpp/frontend/page_structure.cc File Reference

Definition of Page Structure class functions

```
.  
#include "header/page_structure.h"
```

8.26.1 Detailed Description

Definition of Page Structure class functions

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Definition in file [page_structure.cc](#).

8.27 src/cpp/frontend/project_detail.cc File Reference

Function Definition of project detail class

```
.  
#include "header/project_detail.h"
```

8.27.1 Detailed Description

Function Definition of project detail class

. g++

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Definition in file [project_detail.cc](#).

8.28 src/cpp/frontend/sendmail.cc File Reference

Definitions of functions for sending emails to user and developer.

```
#include "header/sendmail.h"
```

8.28.1 Detailed Description

Definitions of functions for sending emails to user and developer. g++

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Definition in file [sendmail.cc](#).

8.29 src/cpp/frontend/set_password_main.cpp File Reference

Set Password for new user

.

```
#include "header/user.h"
```

Functions

- int **main** (void)

8.29.1 Detailed Description

Set Password for new user

. g++

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Definition in file [set_password_main.cpp](#).

8.30 src/cpp/frontend/user.cc File Reference

Function definition of user class. See header file for more detail.

```
#include "header/user.h"  
#include "header/fieldname.h"
```

8.30.1 Detailed Description

Function definition of user class. See header file for more detail. g++

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Definition in file [user.cc](#).