

Project BacpFseC

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

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Task	24
TestFixture	
FixtureBfcPrototype	14
FixtureBfcTUI	16
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Chapter 2

Class Index

2.1 Class List

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

BfcPrototype		
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BfcTUI		
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Date		
Date	Class is used for time recording	12
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FixtureState	18
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State		
State	Class is used to record a progress of a task	21
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Chapter 3

File Index

3.1 File List

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

BfcPrototype.cc	Implementation for BfcPrototype Class	27
BfcPrototype.h	Header file of BfcPrototype Class	27
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BfcTUI.h	Header file of BfcTUI inherited from BfcPrototype	28
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Chapter 4

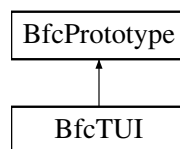
Class Documentation

4.1 BfcPrototype Class Reference

[BfcPrototype](#) Class is abstract base class.

```
#include <BfcPrototype.h>
```

Inheritance diagram for BfcPrototype:



Public Member Functions

- [BfcPrototype](#) ()
- [~BfcPrototype](#) ()
- void [setRecordLoaded](#) (bool rl)
- bool [getRecordLoaded](#) ()
- void [setStartDate](#) (const [Date](#) &sd)
- [Date](#) [getStartDate](#) ()
- void [setEndDate](#) (const [Date](#) &ed)
- [Date](#) [getEndDate](#) ()
- void [setNumOfTaskUncomplete](#) (int ntu)
- int [getNumOfTaskUncomplete](#) ()
- void [setNumOfTaskCancelled](#) (int ntc)
- int [getNumOfTaskCancelled](#) ()
- std::vector< [Task](#) > & [getTasks](#) ()
- virtual void [readStates](#) (std::istream &is, [Task](#) &bk)
- virtual void [readTasks](#) (std::istream &is, std::vector< [Task](#) > &ts)

Protected Member Functions

- void [init](#) ()

Private Attributes

- const int [maxTaskInProgress](#) = 15
- bool [recordLoaded](#)
- [Date](#) [startDate](#)
- [Date](#) [endDate](#)
- int [numOfTaskUncomplete](#)
- int [numOfTaskCancelled](#)
- std::vector< [Task](#) > [tasks](#)

4.1.1 Detailed Description

[BfcPrototype](#) Class is abstract base class.

[BfcPrototype](#) Class serves as the abstract base class for variety [BacpfsecTUI](#) and [BacpfsecGUI](#) would inherited from [BfcPrototype](#)

4.1.2 Constructor & Destructor Documentation

4.1.2.1 [BfcPrototype::BfcPrototype](#) ()

Default constructor

4.1.2.2 [BfcPrototype::~~BfcPrototype](#) ()

Destructor

4.1.3 Member Function Documentation

4.1.3.1 [Date BfcPrototype::getEndDate](#) ()

Getter for endDate

4.1.3.2 [int BfcPrototype::getNumOfTaskCancelled](#) ()

Getter for numOfTaskCancelled

4.1.3.3 [int BfcPrototype::getNumOfTaskUncomplete](#) ()

Getter for numOfTaskUncomplete

4.1.3.4 [bool BfcPrototype::getRecordLoaded](#) ()

Getter for recordLoaded

4.1.3.5 [Date BfcPrototype::getStartDate](#) ()

Getter for startDate

4.1.3.6 `std::vector< Task > & BfcPrototype::getTasks ()`

Reference getter for vector tasks

4.1.3.7 `void BfcPrototype::init ()` `[protected]`

Protected initializer

Helper to initialize all the private member

4.1.3.8 `void BfcPrototype::readStates (std::istream & is, Task & bk)` `[virtual]`

Virtual [readStates\(\)](#)

Get the record from stream and update the task and private members

4.1.3.9 `void BfcPrototype::readTasks (std::istream & is, std::vector< Task > & ts)` `[virtual]`

Virtual [readTasks\(\)](#)

Get the record from stream and update the tasks and private members

4.1.3.10 `void BfcPrototype::setEndDate (const Date & ed)`

Setter for endDate

4.1.3.11 `void BfcPrototype::setNumOfTaskCancelled (int ntc)`

Setter for numOfTaskCancelled

4.1.3.12 `void BfcPrototype::setNumOfTaskUncomplete (int ntu)`

Setter for numOfTaskUncomplete

4.1.3.13 `void BfcPrototype::setRecordLoaded (bool rl)`

Setter for recordLoaded

4.1.3.14 `void BfcPrototype::setStartDate (const Date & sd)`

Setter for startDate

4.1.4 Member Data Documentation

4.1.4.1 `Date BfcPrototype::endDate` `[private]`

The last date of recorded readed

4.1.4.2 `const int BfcPrototype::maxTaskInProgress = 15` `[private]`

Const limit of tasks in progress

4.1.4.3 `int BfcPrototype::numOfTaskCancelled` [private]

The number of tasks cancelled

4.1.4.4 `int BfcPrototype::numOfTaskUncomplete` [private]

The number of tasks in progress

4.1.4.5 `bool BfcPrototype::recordLoaded` [private]

Boolean indicate if record is loaded

4.1.4.6 `Date BfcPrototype::startDate` [private]

The first date of recorded readed

4.1.4.7 `std::vector<Task> BfcPrototype::tasks` [private]

Storage of the tasks as a vector

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

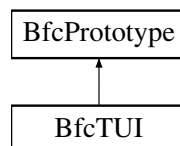
- [BfcPrototype.h](#)
- [BfcPrototype.cc](#)

4.2 BfcTUI Class Reference

[BfcTUI](#) Class is inherited from [BfcPrototype](#).

```
#include <BfcTUI.h>
```

Inheritance diagram for BfcTUI:



Public Member Functions

- [BfcTUI](#) ()
- [~BfcTUI](#) ()
- void [printDay](#) (std::ostream &os, [Date](#) d, int width)
- void [showRecord](#) (std::ostream &os, std::vector< [Task](#) > &ts, int s)
- void [writeRecord](#) (std::ostream &os, std::vector< [Task](#) > &ts)
- void [briefReport](#) (std::ostream &os, std::vector< [Task](#) > &ts)
- void [timeline](#) (std::ostream &os, std::vector< [Task](#) > &ts, [Date](#) s, [Date](#) e, bool m)

Private Member Functions

- void [timelineVer](#) (std::ostream &os, std::vector< [Task](#) > &ts, [Date](#) s, [Date](#) e)
- void [timelineHor](#) (std::ostream &os, std::vector< [Task](#) > &ts, [Date](#) s, [Date](#) e)

Additional Inherited Members

4.2.1 Detailed Description

[BfcTUI](#) Class is inherited from [BfcPrototype](#).

[BfcTUI](#) provides some interesting functions to build the text-based UI This is one main variant of the Bacpfsec Project main

4.2.2 Constructor & Destructor Documentation

4.2.2.1 BfcTUI::BfcTUI ()

Default constructor

4.2.2.2 BfcTUI::~~BfcTUI ()

Destructor

4.2.3 Member Function Documentation

4.2.3.1 void BfcTUI::briefReport (std::ostream & *os*, std::vector< Task > & *ts*)

briefReport to ostream

Parameters

<i>os</i>	ostream
<i>ts</i>	reference to a task vector

4.2.3.2 void BfcTUI::printDay (std::ostream & *os*, Date *d*, int *width*)

Print given date with given width

Parameters

<i>os</i>	ostream
<i>d</i>	a Date object
<i>width</i>	desired output width

4.2.3.3 void BfcTUI::showRecord (std::ostream & *os*, std::vector< Task > & *ts*, int *s*)

showRecord to ostream

Parameters

<i>os</i>	ostream
<i>ts</i>	reference to a task vector
<i>s</i>	status integer

4.2.3.4 void BfcTUI::timeline (std::ostream & *os*, std::vector< Task > & *ts*, Date *s*, Date *e*, bool *m*)

timeline function with variant

Parameters

<i>os</i>	ostream
<i>ts</i>	reference to a task vector
<i>s</i>	start Date input from user
<i>e</i>	end Date input from user
<i>m</i>	boolean selector, 0:horizontal, 1:vertical

4.2.3.5 void BfcTUI::timelineHor (std::ostream & *os*, std::vector< [Task](#) > & *ts*, [Date](#) *s*, [Date](#) *e*) [private]

Private helper to build horizontal timeline

Parameters

<i>os</i>	ostream
<i>ts</i>	reference to a task vector
<i>s</i>	start Date input from user
<i>e</i>	end Date input from user

4.2.3.6 void BfcTUI::timelineVer (std::ostream & *os*, std::vector< [Task](#) > & *ts*, [Date](#) *s*, [Date](#) *e*) [private]

Private helper to build vertical timeline

Parameters

<i>os</i>	ostream
<i>ts</i>	reference to a task vector
<i>s</i>	start Date input from user
<i>e</i>	end Date input from user

4.2.3.7 void BfcTUI::writeRecord (std::ostream & *os*, std::vector< [Task](#) > & *ts*)

writeRecord to ostream

Parameters

<i>os</i>	ostream
<i>ts</i>	reference to a task vector

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

- [BfcTUI.h](#)
- [BfcTUI.cc](#)

4.3 Date Class Reference

[Date](#) Class is used for time recording.

```
#include <Date.h>
```

Public Member Functions

- [Date](#) ()
- [Date](#) (int d)
- [Date](#) (const [Date](#) &dt)

- `~Date ()`
- `void setValue (int d)`
- `int getValue ()`
- `void nextDate ()`
- `bool operator== (Date d)`
- `bool operator!= (Date d)`

Private Member Functions

- `bool isValid ()`

Private Attributes

- `int date`

4.3.1 Detailed Description

`Date` Class is used for time recording.

`Date` Class provides supplementary operations based on the `<time>` library

4.3.2 Constructor & Destructor Documentation

4.3.2.1 `Date::Date ()`

Default constructor

Note

Default value is 150301 (i.e. 2015/03/01)

4.3.2.2 `Date::Date (int d)`

Parameterized constructor

Parameters

<i>d</i>	Value stands for a date
----------	-------------------------

set back to default for invalid date

4.3.2.3 `Date::Date (const Date & dt)`

Copy constructor

4.3.2.4 `Date::~~Date ()`

Destructor

4.3.3 Member Function Documentation

4.3.3.1 `int Date::getValue ()`

Getter

Returns

Value of the private date

4.3.3.2 `bool Date::isValid ()` `[private]`

[Date](#) check

Private helper to test if a date is valid

4.3.3.3 `void Date::nextDate ()`

Proceed date to next valid date

4.3.3.4 `bool Date::operator!= (Date d)`

Overload != operator param d another date

4.3.3.5 `bool Date::operator== (Date d)`

Overload == operator param d another date

4.3.3.6 `void Date::setValue (int d)`

Setter

Parameters

<code>d</code>	Value stands for a date
----------------	-------------------------

4.3.4 Member Data Documentation

4.3.4.1 `int Date::date` `[private]`

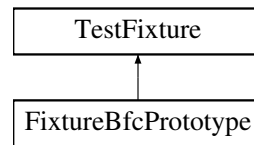
Storage of date value

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

- [Date.h](#)
- [Date.cc](#)

4.4 FixtureBfcPrototype Class Reference

Inheritance diagram for FixtureBfcPrototype:



Public Member Functions

- **CPPUNIT_TEST_SUITE** ([FixtureBfcPrototype](#))
- **CPPUNIT_TEST** ([testInitAndGetters](#))
- **CPPUNIT_TEST** ([testSetters](#))
- **CPPUNIT_TEST** ([testTasksGetter](#))
- **CPPUNIT_TEST** ([testReadStates](#))
- **CPPUNIT_TEST** ([testReadTasks](#))
- **CPPUNIT_TEST_SUITE_END** ()
- void **setUp** ()
- void **tearDown** ()
- void [testInitAndGetters](#) ()
- void [testSetters](#) ()
- void [testTasksGetter](#) ()
- void [testReadStates](#) ()
- void [testReadTasks](#) ()

Private Attributes

- [BfcPrototype](#) * **bfc**

4.4.1 Member Function Documentation

4.4.1.1 void FixtureBfcPrototype::testInitAndGetters () [inline]

Tests for Getters and init

Test1: getRecordLoaded() Test2: getStartDate() Test3: getEndDate() Test4: getNumOfTaskUncomplete() Test5: getNumOfTaskCancelled()

4.4.1.2 void FixtureBfcPrototype::testReadStates () [inline]

Test for BfcPrototype::readStates(istream, Task&)

Test input: [~P2] 20150302 [~P3 + ~P5] 20150304 1

4.4.1.3 void FixtureBfcPrototype::testReadTasks () [inline]

Test for BfcPrototype::readStates(istream, vector<Task>&)

Test input: Book1 [~P2] 20150302 [~P3 + ~P5] 20150304 1 Book2 [~C1] 20150101 [~C3] 20150502 0

4.4.1.4 void FixtureBfcPrototype::testSetters () [inline]

Tests for Setters

Test1: setRecordLoaded() Test2: setStartDate() Test3: setEndDate() Test4: setNumOfTaskUncomplete() Test5: setNumOfTaskCancelled()

4.4.1.5 void FixtureBfcPrototype::testTasksGetter () [inline]

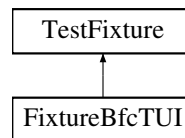
Test for [BfcPrototype::getTasks\(\)](#)

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

- [FixtureBfcPrototype.h](#)

4.5 FixtureBfcTUI Class Reference

Inheritance diagram for FixtureBfcTUI:



Public Member Functions

- **CPPUNIT_TEST_SUITE** ([FixtureBfcTUI](#))
- **CPPUNIT_TEST** ([testPrintDay](#))
- **CPPUNIT_TEST** ([testShowRecord](#))
- **CPPUNIT_TEST** ([testWriteRecord](#))
- **CPPUNIT_TEST** ([testBriefReport](#))
- **CPPUNIT_TEST** ([testTimelineVer](#))
- **CPPUNIT_TEST** ([testTimelineHor](#))
- **CPPUNIT_TEST_SUITE_END** ()
- void **setUp** ()
- void **tearDown** ()
- void [testPrintDay](#) ()
- void [testShowRecord](#) ()
- void [testWriteRecord](#) ()
- void [testBriefReport](#) ()
- void [testTimelineVer](#) ()
- void [testTimelineHor](#) ()

Private Attributes

- [BfcTUI](#) * **tui**

4.5.1 Member Function Documentation

4.5.1.1 void FixtureBfcTUI::testBriefReport () [inline]

Tests for [BfcTUI::briefReport\(std::ostream&,std::vector<Task>&\);](#)

4.5.1.2 void FixtureBfcTUI::testPrintDay () [inline]

Tests for [BfcTUI::printDay\(ostream&, Date, int\);](#)

4.5.1.3 void FixtureBfcTUI::testShowRecord () [inline]

Tests for [BfcTUI::showRecord\(std::ostream&,std::vector<Task>&,int\);](#)

4.5.1.4 void FixtureBfcTUI::testTimelineHor () [inline]

Tests for horizontal timeline

4.5.1.5 void FixtureBfcTUI::testTimelineVer () [inline]

Tests for vertical timeline

4.5.1.6 void FixtureBfcTUI::testWriteRecord () [inline]

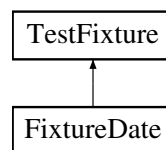
Tests for [BfcTUI::writeRecord\(std::ostream&,std::vector<Task>&\);](#)

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

- [FixtureBfcTUI.h](#)

4.6 FixtureDate Class Reference

Inheritance diagram for FixtureDate:



Public Member Functions

- **CPPUNIT_TEST_SUITE** ([FixtureDate](#))
- **CPPUNIT_TEST** ([testGetter](#))
- **CPPUNIT_TEST** ([testSetter](#))
- **CPPUNIT_TEST** ([testParaConstructor](#))
- **CPPUNIT_TEST** ([testCopyConstructor](#))
- **CPPUNIT_TEST** ([testNextDate](#))
- **CPPUNIT_TEST** ([testIsValid](#))
- **CPPUNIT_TEST** ([testEquivalent](#))
- **CPPUNIT_TEST_SUITE_END** ()
- void **setUp** ()
- void **tearDown** ()
- void [testGetter](#) ()
- void [testSetter](#) ()
- void [testParaConstructor](#) ()
- void [testCopyConstructor](#) ()
- void [testNextDate](#) ()
- void [testIsValid](#) ()
- void [testEquivalent](#) ()

Private Attributes

- [Date](#) * dt

4.6.1 Member Function Documentation

4.6.1.1 void FixtureDate::testCopyConstructor () [inline]

Test for [Date::Date\(const Date& dt\)](#)

4.6.1.2 void FixtureDate::testEquivalent () [inline]

Test for equivalent check

Test case 1: 20150201==20150201 Test case 2: 20150202!=20150201

4.6.1.3 void FixtureDate::testGetter () [inline]

Test for [Date::getDate\(\)](#)

Default date is 20150301

4.6.1.4 void FixtureDate::testIsValid () [inline]

Test for [Date::isValid\(\)](#)

Test case 1: 20150229(invalid)->20150301 Test case 2: 20160229(valid)->20160229 Test case 3: 20151930(invalid)->20150301

4.6.1.5 void FixtureDate::testNextDate () [inline]

Test for [Date::nextDate\(\)](#)

Test case 1: 20150228->20150301 Test case 2: 20160228->20160229 Test case 3: 20150930->20151001 Test case 4: 20151215->20151216

4.6.1.6 void FixtureDate::testParaConstructor () [inline]

Test for [Date::Date\(int d\)](#)

4.6.1.7 void FixtureDate::testSetter () [inline]

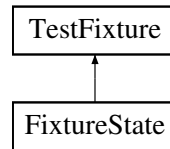
Test for [Date::setDate\(int d\)](#)

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

- [FixtureDate.h](#)

4.7 FixtureState Class Reference

Inheritance diagram for FixtureState:



Public Member Functions

- **CPPUNIT_TEST_SUITE** ([FixtureState](#))
- **CPPUNIT_TEST** ([testDateGetter](#))
- **CPPUNIT_TEST** ([testDateSetter](#))
- **CPPUNIT_TEST** ([testContentGetter](#))
- **CPPUNIT_TEST** ([testContentSetter](#))
- **CPPUNIT_TEST** ([testParaConstructor](#))
- **CPPUNIT_TEST** ([testCopyConstructor](#))
- **CPPUNIT_TEST** ([testContentMerge](#))
- **CPPUNIT_TEST** ([testStateMerge](#))
- **CPPUNIT_TEST_SUITE_END** ()
- void **setUp** ()
- void **tearDown** ()
- void [testDateSetter](#) ()
- void [testDateGetter](#) ()
- void [testContentSetter](#) ()
- void [testContentGetter](#) ()
- void [testParaConstructor](#) ()
- void [testCopyConstructor](#) ()
- void [testContentMerge](#) ()
- void [testStateMerge](#) ()

Private Attributes

- [State](#) * **st**

4.7.1 Member Function Documentation

4.7.1.1 void [FixtureState::testContentGetter](#) () [[inline](#)]

Test for [State::getContent\(\)](#)

4.7.1.2 void [FixtureState::testContentMerge](#) () [[inline](#)]

Test for [State::merge\(std::string s\)](#)

4.7.1.3 void [FixtureState::testContentSetter](#) () [[inline](#)]

Test for [State::setContent\(std::string s\)](#)

4.7.1.4 void [FixtureState::testCopyConstructor](#) () [[inline](#)]

Test for [State::State\(const State& st\)](#)

4.7.1.5 void FixtureState::testDateGetter () [inline]

Test for [State::getDate\(\)](#)

4.7.1.6 void FixtureState::testDateSetter () [inline]

Test for [State::setDate\(const Date& dt\)](#)

4.7.1.7 void FixtureState::testParaConstructor () [inline]

Test for [State::State\(std::string s, const Date& dt\)](#)

4.7.1.8 void FixtureState::testStateMerge () [inline]

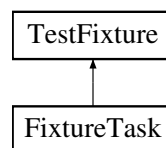
Test for [State::merge\(State st\)](#)

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

- [FixtureState.h](#)

4.8 FixtureTask Class Reference

Inheritance diagram for FixtureTask:



Public Member Functions

- **CPPUNIT_TEST_SUITE** ([FixtureTask](#))
- **CPPUNIT_TEST** ([testTaskNameGetter](#))
- **CPPUNIT_TEST** ([testTaskNameSetter](#))
- **CPPUNIT_TEST** ([testStatusGetter](#))
- **CPPUNIT_TEST** ([testStatusSetter](#))
- **CPPUNIT_TEST** ([testStateGetter](#))
- **CPPUNIT_TEST** ([testStateSetter](#))
- **CPPUNIT_TEST** ([testParaConstructor](#))
- **CPPUNIT_TEST** ([testCopyConstructor](#))
- **CPPUNIT_TEST_SUITE_END** ()
- void **setUp** ()
- void **tearDown** ()
- void [testTaskNameGetter](#) ()
- void [testTaskNameSetter](#) ()
- void [testStatusGetter](#) ()
- void [testStatusSetter](#) ()
- void [testStateGetter](#) ()
- void [testStateSetter](#) ()
- void [testParaConstructor](#) ()
- void [testCopyConstructor](#) ()

Private Attributes

- [Task](#) * t

4.8.1 Member Function Documentation

4.8.1.1 void FixtureTask::testCopyConstructor () [inline]

Test for Task::testCopyConstructor(const Task&)

4.8.1.2 void FixtureTask::testParaConstructor () [inline]

Test for Task::testParaConstructor

4.8.1.3 void FixtureTask::testStateGetter () [inline]

Test for Task::testStatusGetter()

4.8.1.4 void FixtureTask::testStateSetter () [inline]

Test for Task::testStatusSetter(const& vector<state>)

4.8.1.5 void FixtureTask::testStatusGetter () [inline]

Test for Task::testStatusGetter()

4.8.1.6 void FixtureTask::testStatusSetter () [inline]

Test for Task::testStatusSetter(int)

4.8.1.7 void FixtureTask::testTaskNameGetter () [inline]

Test for [Task::getTaskName\(\)](#)

4.8.1.8 void FixtureTask::testTaskNameSetter () [inline]

Test for Task::setTaskName(string)

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

- [FixtureTask.h](#)

4.9 State Class Reference

[State](#) Class is used to record a progress of a task.

```
#include <State.h>
```

Public Member Functions

- [State](#) ()
- [State](#) (std::string s, const [Date](#) &dt)
- [State](#) (const [State](#) &st)
- [~State](#) ()
- void [setDate](#) (const [Date](#) &dt)
- [Date](#) [getDate](#) ()
- void [setContent](#) (std::string s)
- std::string [getContent](#) ()
- void [merge](#) (std::string s)
- void [merge](#) ([State](#) st)

Private Attributes

- std::string [content](#)
- [Date](#) [date](#)

4.9.1 Detailed Description

[State](#) Class is used to record a progress of a task.

[State](#) Class records both progress detail and performing date. [State](#) Class also provides some basic operations related with a progress.

4.9.2 Constructor & Destructor Documentation

4.9.2.1 [State::State](#) ()

Default constructor

4.9.2.2 [State::State](#) (std::string s, const [Date](#) & dt)

Parameterized constructor

Parameters

<i>s</i>	string content for a progress
<i>dt</i>	a Date object

4.9.2.3 [State::State](#) (const [State](#) & st)

Copy constructor

4.9.2.4 [State::~~State](#) ()

Destructor

4.9.3 Member Function Documentation

4.9.3.1 std::string [State::getContent](#) ()

Getter for content

Returns

A string with details from private content

4.9.3.2 Date State::getDate ()

Getter for date

Returns

A [Date](#) object with details from private date

4.9.3.3 void State::merge (std::string s)

Merge another content to this state

Parameters

<i>s</i>	A string for another progress detail
----------	--------------------------------------

4.9.3.4 void State::merge (State st)

Merge another state at the same day

Parameters

<i>st</i>	A state which is the same as current
-----------	--------------------------------------

Note

Designed for flexibility

4.9.3.5 void State::setContent (std::string s)

Setter for content

Parameters

<i>s</i>	A string for progress detail
----------	------------------------------

4.9.3.6 void State::setDate (const Date & dt)

Setter for date

Parameters

<i>dt</i>	A Date object
-----------	-------------------------------

4.9.4 Member Data Documentation

4.9.4.1 std::string State::content [private]

Storage of progress detail

4.9.4.2 Date State::date [private]

Storage of date value

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

- [State.h](#)
- [State.cc](#)

4.10 Task Class Reference

[Task](#) Class for actual recording of tasks.

```
#include <Task.h>
```

Public Member Functions

- [Task](#) ()
- [Task](#) (std::string tn, const std::vector< [State](#) > &st, int s)
- [Task](#) (const [Task](#) &t)
- [~Task](#) ()
- void [setStates](#) (const std::vector< [State](#) > &sts)
- std::vector< [State](#) > & [getStates](#) ()
- void [setTaskName](#) (std::string s)
- std::string [getTaskName](#) ()
- void [setStatus](#) (int f)
- int [getStatus](#) ()

Private Attributes

- std::string [taskName](#)
- std::vector< [State](#) > [states](#)
- int [status](#)

4.10.1 Detailed Description

[Task](#) Class for actual recording of tasks.

[Task](#) Class records several states on different dates for a single task. [Task](#) Class also provides some basic operations related with a task.

4.10.2 Constructor & Destructor Documentation

4.10.2.1 Task::Task ()

Default constructor

4.10.2.2 Task::Task (std::string tn, const std::vector< [State](#) > &st, int s)

Parameterized constructor

Parameters

<i>tn</i>	string content for a task name
<i>st</i>	a vector of states
<i>s</i>	a boolean to indicate the task status

4.10.2.3 Task::Task (const Task & t)

Copy constructor

4.10.2.4 Task::~~Task ()

Destructor

4.10.3 Member Function Documentation

4.10.3.1 std::vector< State > & Task::getStates ()

Getter for states

Returns

A reference to vector of recorded states

4.10.3.2 int Task::getStatus ()

Getter for task status

Returns

An integer stands for status

4.10.3.3 std::string Task::getTaskName ()

Getter for task name

Returns

A string with task name

4.10.3.4 void Task::setStates (const std::vector< State > & sts)

Setter for states

Parameters

<i>dt</i>	A vector of states
-----------	--------------------

4.10.3.5 void Task::setStatus (int f)

Setter for task status

Parameters

<i>s</i>	An integer stands for status
----------	------------------------------

4.10.3.6 void Task::setTaskName (std::string *s*)

Setter for task name

Parameters

<i>s</i>	A string for task name
----------	------------------------

4.10.4 Member Data Documentation

4.10.4.1 std::vector<State> Task::states [private]

Storage of states in vector

4.10.4.2 std::string Task::taskName [private]

Storage of task name

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

- [Task.h](#)
- [Task.cc](#)

Chapter 5

File Documentation

5.1 BfcPrototype.cc File Reference

Implementation for [BfcPrototype](#) Class.

```
#include "BfcPrototype.h"
```

5.1.1 Detailed Description

Implementation for [BfcPrototype](#) Class. Bacpfsec Rick

Date

20150405 [BfcPrototype](#) is the base class for TUI and GUI

5.2 BfcPrototype.h File Reference

Header file of [BfcPrototype](#) Class.

```
#include <stdio.h>
#include <stdlib.h>
#include <iostream>
#include "Date.h"
#include "Task.h"
#include <vector>
```

Classes

- class [BfcPrototype](#)
[BfcPrototype](#) Class is abstract base class.

5.2.1 Detailed Description

Header file of [BfcPrototype](#) Class. Bacpfsec Rick

Date

20150405 [BfcPrototype](#) Class is used as abstract base class

5.3 BfcTUI.cc File Reference

Implementation for [BfcTUI](#) Class.

```
#include "BfcTUI.h"
#include <sstream>
#include <iomanip>
```

5.3.1 Detailed Description

Implementation for [BfcTUI](#) Class. Bacpfsec Rick

Date

20150405 [BfcTUI](#) is the TUI version of program

5.4 BfcTUI.h File Reference

Header file of [BfcTUI](#) inherited from [BfcPrototype](#).

```
#include <stdio.h>
#include <stdlib.h>
#include <iostream>
#include "Date.h"
#include "Task.h"
#include "BfcPrototype.h"
#include <vector>
```

Classes

- class [BfcTUI](#)
[BfcTUI](#) Class is inherited from [BfcPrototype](#).

5.4.1 Detailed Description

Header file of [BfcTUI](#) inherited from [BfcPrototype](#). Bacpfsec Rick

Date

20150405 [BfcTUI](#) Class is used to build the text-based user interface

5.5 Date.cc File Reference

Implementation of [Date](#) Class.

```
#include "Date.h"
```

5.5.1 Detailed Description

Implementation of [Date](#) Class. Bacpfsec Rick

Date

20150324 [Date](#) Class is used for [State](#) Class

5.6 Date.h File Reference

Header file of [Date](#) Class.

```
#include <stdio.h>
#include <stdlib.h>
#include <iostream>
```

Classes

- class [Date](#)
[Date](#) Class is used for time recording.

5.6.1 Detailed Description

Header file of [Date](#) Class. Bacpfsec Rick

Date

20150324 [Date](#) Class is used for [State](#) Class

5.7 FixtureBfcPrototype.h File Reference

CppUnit Fixture setup for [BfcPrototype](#) class.

```
#include <cppunit/TestFixture.h>
#include <cppunit/extensions/TestFactoryRegistry.h>
#include <cppunit/ui/text/TextTestRunner.h>
#include <cppunit/ui/text/TestRunner.h>
#include <cppunit/extensions/HelperMacros.h>
#include "BfcPrototype.h"
#include <vector>
#include <iostream>
```

Classes

- class [FixtureBfcPrototype](#)

5.7.1 Detailed Description

CppUnit Fixture setup for [BfcPrototype](#) class. Bacpfsec Rick

Date

20150405 [FixtureBfcPrototype](#) is used in TestBfcPrototype for [BfcPrototype](#) Class

5.8 FixtureBfcTUI.h File Reference

CppUnit Fixture setup for [BfcTUI](#) class.

```
#include <cppunit/TestFixture.h>
#include <cppunit/extensions/TestFactoryRegistry.h>
#include <cppunit/ui/text/TextTestRunner.h>
#include <cppunit/ui/text/TestRunner.h>
#include <cppunit/extensions/HelperMacros.h>
#include "BfcTUI.h"
#include "Task.h"
#include <vector>
#include <iostream>
```

Classes

- class [FixtureBfcTUI](#)

5.8.1 Detailed Description

CppUnit Fixture setup for [BfcTUI](#) class. Bacpfsec Rick

Date

20150405 [FixtureBfcTUI](#) is used in TestBfcTUI for [BfcTUI](#) Class

5.9 FixtureDate.h File Reference

CppUnit Fixture setup for [Date](#) class.

```
#include <cppunit/TestFixture.h>
#include <cppunit/extensions/TestFactoryRegistry.h>
#include <cppunit/ui/text/TextTestRunner.h>
#include <cppunit/ui/text/TestRunner.h>
#include <cppunit/extensions/HelperMacros.h>
#include "Date.h"
```

Classes

- class [FixtureDate](#)

5.9.1 Detailed Description

CppUnit Fixture setup for [Date](#) class. Bacpfsec Rick

Date

20150324 [FixtureDate](#) is used in TestDate for [Date](#) Class

5.10 FixtureState.h File Reference

CppUnit Fixture setup for [State](#) class.

```
#include <cppunit/TestFixture.h>
#include <cppunit/extensions/TestFactoryRegistry.h>
#include <cppunit/ui/text/TextTestRunner.h>
#include <cppunit/ui/text/TestRunner.h>
#include <cppunit/extensions/HelperMacros.h>
#include "State.h"
```

Classes

- class [FixtureState](#)

5.10.1 Detailed Description

CppUnit Fixture setup for [State](#) class. Bacpfsec Rick

Date

20150324 FixtureSate is used in TestSate for [State](#) Class

5.11 FixtureTask.h File Reference

CppUnit Fixture setup for [Task](#) class.

```
#include <cppunit/TestFixture.h>
#include <cppunit/extensions/TestFactoryRegistry.h>
#include <cppunit/ui/text/TextTestRunner.h>
#include <cppunit/ui/text/TestRunner.h>
#include <cppunit/extensions/HelperMacros.h>
#include "Task.h"
#include <vector>
```

Classes

- class [FixtureTask](#)

5.11.1 Detailed Description

CppUnit Fixture setup for [Task](#) class. Bacpfsec Rick

Date

20150405 [FixtureTask](#) is used in TestDate for [Task](#) Class

5.12 State.cc File Reference

Implementation of [State](#) Class.

```
#include "State.h"
```

5.12.1 Detailed Description

Implementation of [State](#) Class. Bacpfsec Rick

Date

20150324 [State](#) Class is used for [Task](#) Class

5.13 State.h File Reference

Header file of [State](#) Class.

```
#include <stdio.h>
#include <stdlib.h>
#include <iostream>
#include "Date.h"
```

Classes

- class [State](#)

[State](#) Class is used to record a progress of a task.

5.13.1 Detailed Description

Header file of [State](#) Class. Bacpfsec Rick

Date

20150324 [State](#) Class is used for [Task](#) Class

5.14 Task.cc File Reference

Implementation for [Task](#) Class.

```
#include "Task.h"
```

5.14.1 Detailed Description

Implementation for [Task](#) Class. Bacpfsec Rick

Date

20150405 [Task](#) Class for actual recording of one task

5.15 Task.h File Reference

Header file of [Task](#) Class.


```
#include <stdio.h>
#include <stdlib.h>
#include <iostream>
#include <vector>
#include "Date.h"
#include "State.h"
```

Classes

- class [Task](#)

[Task](#) Class for actual recording of tasks.

5.15.1 Detailed Description

Header file of [Task](#) Class. Bacpfsec Rick

Date

20150405 [Task](#) Class for actual recording of one task

5.16 TestDate.cc File Reference

Test program for [Date](#) Class.

```
#include "FixtureDate.h"
```

Functions

- int **main** ()

5.16.1 Detailed Description

Test program for [Date](#) Class. Bacpfsec Rick

Date

20150324 TestDate applies CppUnit test towards [Date](#) Class

5.17 TestState.cc File Reference

Test program for [State](#) Class.

```
#include "FixtureState.h"
```

Functions

- int **main** ()

5.17.1 Detailed Description

Test program for [State](#) Class. Bacpfsec Rick

Date

20150324 TestDate applies CppUnit test towards [Date](#) Class

5.18 TestTask.cc File Reference

Test program for [Task](#) Class.

```
#include "FixtureTask.h"
```

Functions

- int **main** ()

5.18.1 Detailed Description

Test program for [Task](#) Class. Bacpfsec Rick

Date

20150405 TestTask applies CppUnit test towards [Task](#) Class

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