Bike Service by Rafał Jurczyk

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1	Hierarchical Index	1
	1.1 Class Hierarchy	1
2	Class Index	3
	2.1 Class List	3
3	File Index	5
	3.1 File List	5
4	Class Documentation	7
	4.1 Basic_Product Class Reference	7
	4.1.1 Detailed Description	7
	4.1.2 Constructor & Destructor Documentation	8
	4.1.2.1 Basic_Product()	8
	4.1.3 Member Function Documentation	8
	4.1.3.1 get_description()	8
	4.1.3.2 get_name()	8
	4.1.3.3 get_price()	8
	4.1.3.4 show_full_name()	8
	4.1.4 Member Data Documentation	8
	4.1.4.1 basic_price	9
	4.1.4.2 description	9
	4.1.4.3 name	9
	4.1.4.4 price	9
	4.2 Bike Class Reference	9
	4.2.1 Detailed Description	10
	4.2.2 Constructor & Destructor Documentation	10
	4.2.2.1 Bike() [1/2]	10
	4.2.2.2 Bike() [2/2]	11
	4.2.3 Member Function Documentation	11
	4.2.3.1 get_bike_type()	11
	4.2.3.2 get_wheel_size()	11
	4.2.3.3 show_full_name()	11
	4.2.4 Member Data Documentation	11
	4.2.4.1 type	11
	4.2.4.2 wheel_size	12
	4.3 Client Class Reference	12
	4.3.1 Detailed Description	12
	4.3.2 Constructor & Destructor Documentation	13
	4.3.2.1 Client() [1/3]	13
	4.3.2.2 Client() [2/3]	13
	4.3.2.3 Client() [3/3]	13
	4.3.3 Member Function Documentation	13

4.3.3.1 add_event()	13
4.3.3.2 get_login()	14
4.3.3.3 get_password()	14
4.3.4 Member Data Documentation	14
4.3.4.1 login	14
4.3.4.2 password	14
4.4 Date Class Reference	14
4.4.1 Detailed Description	15
4.4.2 Constructor & Destructor Documentation	15
4.4.2.1 Date() [1/2]	15
4.4.2.2 Date() [2/2]	15
4.4.2.3 ∼Date()	15
4.4.3 Member Function Documentation	15
4.4.3.1 compare_dates()	15
4.4.3.2 get_day()	16
4.4.3.3 get_month()	16
4.4.3.4 get_year()	16
4.4.4 Member Data Documentation	16
4.4.4.1 day	16
4.4.4.2 month	16
4.4.4.3 year	16
4.5 Employee Class Reference	17
4.5.1 Detailed Description	17
4.5.2 Constructor & Destructor Documentation	17
4.5.2.1 Employee() [1/2]	18
4.5.2.2 Employee() [2/2]	18
$4.5.2.3 \sim Employee() \dots \dots$	18
4.5.3 Member Function Documentation	18
4.5.3.1 add_event()	18
4.5.3.2 approve_event()	18
4.5.3.3 get_employee_position()	19
4.5.3.4 get_login()	19
4.5.3.5 get_password()	19
4.5.3.6 get_salary()	19
4.5.4 Member Data Documentation	19
4.5.4.1 employee_position	19
4.5.4.2 login	19
4.5.4.3 password	20
4.5.4.4 salary	20
4.6 Event Class Reference	20
4.6.1 Detailed Description	21
4.6.2 Constructor & Destructor Documentation	21

4.6.2.1 Event()	21
4.6.2.2 ~Event()	21
4.6.3 Member Function Documentation	21
4.6.3.1 get_date()	21
4.6.3.2 get_description()	21
4.6.3.3 get_is_approved()	21
4.6.3.4 get_name()	22
4.6.3.5 set_is_approved()	22
4.6.4 Member Data Documentation	22
4.6.4.1 date	22
4.6.4.2 description	22
4.6.4.3 is_approved	22
4.6.4.4 name	22
4.7 Interface Class Reference	23
4.7.1 Detailed Description	23
4.7.2 Constructor & Destructor Documentation	23
4.7.2.1 Interface()	23
4.7.2.2 ∼Interface()	24
4.7.3 Member Function Documentation	24
4.7.3.1 load_interface()	24
4.7.3.2 show_client_interface()	24
4.7.3.3 show_employee_interface()	24
4.7.3.4 show_logged_client_interface()	24
4.7.3.5 show_manager_interface()	25
4.7.4 Member Data Documentation	25
4.7.4.1 choice	25
4.7.4.2 people_database	25
4.7.4.3 storage	25
4.8 Manager Class Reference	25
4.8.1 Detailed Description	26
4.8.2 Constructor & Destructor Documentation	26
4.8.2.1 Manager() [1/2]	26
4.8.2.2 Manager() [2/2]	26
4.8.3 Member Function Documentation	26
4.8.3.1 fire_staff_member()	27
4.8.3.2 hire_employee()	27
4.8.3.3 pay_salary()	27
4.8.3.4 show_employee_list()	27
4.9 PeopleDataBase Class Reference	27
4.9.1 Detailed Description	28
4.9.2 Constructor & Destructor Documentation	28
4.9.2.1 ∼PeopleDataBase()	28

4.9.3 Member Function Documentation	29
4.9.3.1 add_client()	29
4.9.3.2 add_employee()	29
4.9.3.3 add_manager()	29
4.9.3.4 client_login_form()	29
4.9.3.5 employee_login_form()	29
4.9.3.6 get_clients()	30
4.9.3.7 get_employees()	30
4.9.3.8 get_managers()	30
4.9.3.9 load_users()	30
4.9.3.10 manager_login_form()	30
4.9.3.11 save_users()	30
4.9.3.12 show_clients()	30
4.9.3.13 show_employee_list()	31
4.9.3.14 show_managers()	31
4.9.4 Member Data Documentation	31
4.9.4.1 clients	31
4.9.4.2 employees	31
4.9.4.3 managers	31
4.10 Person Class Reference	31
4.10.1 Detailed Description	32
4.10.2 Constructor & Destructor Documentation	32
4.10.2.1 Person() [1/2]	32
4.10.2.2 Person() [2/2]	33
4.10.3 Member Function Documentation	33
4.10.3.1 add_event()	33
4.10.3.2 buy_a_product_or_bike()	33
4.10.3.3 get_name()	33
4.10.3.4 get_registration_date()	33
4.10.3.5 order_a_service()	34
4.10.3.6 show_ordered_services()	34
4.10.3.7 show_registration_date()	34
4.10.4 Member Data Documentation	34
4.10.4.1 name	34
4.10.4.2 ordered_services	34
4.10.4.3 registration_date	35
4.11 Product Class Reference	35
4.11.1 Detailed Description	35
4.11.2 Constructor & Destructor Documentation	35
4.11.2.1 Product() [1/2]	36
4.11.2.2 Product() [2/2]	36
4.11.3 Member Function Documentation	36

4.11.3.1 add_quantity()	36
4.11.3.2 get_quantity()	36
4.11.3.3 show_full_name()	36
4.11.3.4 subtract_quantity()	37
4.11.4 Member Data Documentation	37
4.11.4.1 quantity	37
4.12 Service Class Reference	37
4.12.1 Detailed Description	38
4.12.2 Constructor & Destructor Documentation	38
4.12.2.1 Service()	38
4.12.3 Member Function Documentation	38
4.12.3.1 compare()	38
4.12.3.2 get_required_days()	38
4.12.3.3 show_full_name()	38
4.12.4 Member Data Documentation	39
4.12.4.1 required_days	39
4.13 Storage Class Reference	39
4.13.1 Detailed Description	40
4.13.2 Constructor & Destructor Documentation	40
4.13.2.1 ∼Storage()	40
4.13.3 Member Function Documentation	40
4.13.3.1 add_event()	40
4.13.3.2 approve_event()	40
4.13.3.3 check_in_storage()	41
4.13.3.4 get_balance()	41
4.13.3.5 load_storage()	41
4.13.3.6 order_a_service()	41
4.13.3.7 save_storage()	41
4.13.3.8 set_balance()	41
4.13.3.9 show_events()	42
4.13.3.10 show_services()	42
4.13.3.11 show_storage()	42
4.13.3.12 show_unapproved_events()	42
4.13.4 Member Data Documentation	42
4.13.4.1 bikes	42
4.13.4.2 earnings	42
4.13.4.3 events	43
4.13.4.4 products	43
4.13.4.5 services	43
5 File Documentation	45
5.1 basic_product.h File Reference	45

5.2 basic_product_class.cpp File Reference
5.3 bike.h File Reference
5.4 bike_class.cpp File Reference
5.5 client.cpp File Reference
5.6 client.h File Reference
5.7 date_class.cpp File Reference
5.8 date_class.h File Reference
5.9 employee.cpp File Reference
5.10 employee.h File Reference
5.11 enum.cpp File Reference
5.11.1 Function Documentation
5.11.1.1 EmployeePositionToString()
5.11.1.2 StringToEmployeePosition()
5.11.1.3 StringToType()
5.11.1.4 TypeToString()
5.12 enum.h File Reference
5.12.1 Enumeration Type Documentation
5.12.1.1 EmployeePosition
5.12.1.2 Type
5.12.2 Function Documentation
5.12.2.1 EmployeePositionToString()
5.12.2.2 StringToEmployeePosition()
5.12.2.3 StringToType()
5.12.2.4 TypeToString()
5.13 event.cpp File Reference
5.14 event.h File Reference
5.15 interface.cpp File Reference
5.16 interface.h File Reference
5.17 main.cpp File Reference
5.17.1 Function Documentation
5.17.1.1 main()
5.18 manager.cpp File Reference
5.19 manager.h File Reference
5.20 people_database.cpp File Reference
5.21 people_database.h File Reference
5.22 person.cpp File Reference
5.23 person.h File Reference
5.24 product.h File Reference
5.25 product_class.cpp File Reference
5.26 service.h File Reference
5.27 service_class.cpp File Reference
5.28 storage.cpp File Reference

	VII
5.29 storage.h File Reference	53
Index	55

Chapter 1

Hierarchical Index

1.1 Class Hierarchy

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

Basic_Product	7
Product	35
Bike	9
Service	37
Date	
Event	
Interface	
PeopleDataBase	27
Person	31
Client	
Employee	
Manager	25
Storage	39

2 Hierarchical Index

Chapter 2

Class Index

2.1 Class List

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

Basic_Product	
Bike	9
Client	
Date	
Employee	17
Event	
Interface	
Manager	
PeopleDataBase	
Person	
Product	
Service	
Storage	39

4 Class Index

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

basic_product.h	45
basic_product_class.cpp	45
bike.h	45
bike_class.cpp	45
client.cpp	46
client.h	46
date_class.cpp	46
date_class.h	46
employee.cpp	46
employee.h	46
enum.cpp	47
enum.h	48
event.cpp	50
event.h	50
interface.cpp	50
interface.h	50
main.cpp	51
manager.cpp	51
manager.h	51
people_database.cpp	51
people_database.h	52
person.cpp	52
person.h	52
product.h	52
product_class.cpp	53
service.h	53
service_class.cpp	53
storage.cpp	53
ataraga h	E0

6 File Index

Chapter 4

Class Documentation

4.1 Basic_Product Class Reference

```
#include <basic_product.h>
```

Inheritance diagram for Basic_Product:

Public Member Functions

• Basic_Product (const std::string &name, const double price, const std::string &description)

Default constructor for this class. All products we create have to contain this variables.

• virtual void show_full_name ()=0

This methods makes this class a pure virtual class so we can't make any basic products and add it to our storage.

- std::string get_name ()
- double get_price () const
- std::string get_description () const

Protected Attributes

• std::string name

All products would have it's name that refers to unique item.

· double price

All products would have it's price that is basicly current price including discounts.

double basic_price

Basic price is the original price without any discounts.

std::string description

All clients/employees can see what is this item with details.

4.1.1 Detailed Description

Virtual class created so I can put all of the remaining products/bikes/services in one vector. It's supposed to be a class that contains all of the basic attributes of everything that can be sold in the bike service.

4.1.2 Constructor & Destructor Documentation

4.1.2.1 Basic_Product()

Default constructor for this class. All products we create have to contain this variables.

4.1.3 Member Function Documentation

4.1.3.1 get_description()

```
std::string Basic_Product::get_description ( ) const
```

4.1.3.2 get_name()

```
std::string Basic_Product::get_name ( )
```

4.1.3.3 get_price()

```
double Basic_Product::get_price ( ) const
```

4.1.3.4 show_full_name()

```
virtual void Basic_Product::show_full_name ( ) [pure virtual]
```

This methods makes this class a pure virtual class so we can't make any basic products and add it to our storage.

Implemented in Product, Bike, and Service.

4.1.4 Member Data Documentation

4.2 Bike Class Reference 9

4.1.4.1 basic_price

```
double Basic_Product::basic_price [protected]
```

Basic price is the original price without any discounts.

4.1.4.2 description

```
std::string Basic_Product::description [protected]
```

All clients/employees can see what is this item with details.

4.1.4.3 name

```
std::string Basic_Product::name [protected]
```

All products would have it's name that refers to unique item.

4.1.4.4 price

```
double Basic_Product::price [protected]
```

All products would have it's price that is basicly current price including discounts.

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

- basic_product.h
- basic_product_class.cpp

4.2 Bike Class Reference

#include <bike.h>

Inheritance diagram for Bike:

Collaboration diagram for Bike:

Public Member Functions

• Bike (const std::string &name, const double price, const std::string &description, const Type type, const double wheel size)

This constructor should be used when you add new bike's model to the storage - it sets this bike's quantity to 0 by default.

• Bike (const std::string &name, const double price, const std::string &description, const Type type, const double wheel_size, const int quantity)

This constructor is called usually in loading database cause it automatically sets current quantity from storage.

· virtual void show full name () override

Shows bike attributes.

- double get_wheel_size () const
- Type get_bike_type () const

Private Attributes

Type type

Bikes have 3 unique types so client that wants for example buy city bike can search for it easier.

· double wheel size

Bikes should also differ in sizes. Adult should look for bigger sizes than kid's bikes.

Additional Inherited Members

4.2.1 Detailed Description

This is basicly example more advanced Product class.

4.2.2 Constructor & Destructor Documentation

4.2.2.1 Bike() [1/2]

This constructor should be used when you add new bike's model to the storage - it sets this bike's quantity to 0 by default.

4.2 Bike Class Reference 11

4.2.2.2 Bike() [2/2]

This constructor is called usually in loading database cause it automatically sets current quantity from storage.

4.2.3 Member Function Documentation

4.2.3.1 get_bike_type()

```
Type Bike::get_bike_type ( ) const
```

4.2.3.2 get_wheel_size()

```
double Bike::get_wheel_size ( ) const
```

4.2.3.3 show_full_name()

```
void Bike::show_full_name ( ) [override], [virtual]
```

Shows bike attributes.

Reimplemented from Product.

4.2.4 Member Data Documentation

4.2.4.1 type

```
Type Bike::type [private]
```

Bikes have 3 unique types so client that wants for example buy city bike can search for it easier.

4.2.4.2 wheel_size

```
double Bike::wheel_size [private]
```

Bikes should also differ in sizes. Adult should look for bigger sizes than kid's bikes.

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

- · bike.h
- · bike_class.cpp

4.3 Client Class Reference

```
#include <client.h>
```

Inheritance diagram for Client:

Collaboration diagram for Client:

Public Member Functions

· Client ()

This construcor should be called only by program itself. It creates default Client with name Anonymous User. It doesn't have login and password.

· Client (const std::string &name, const std::string &login, const std::string &password)

This constructor is called when you register as a new Client. It automatically sets your registration date to current day.

• Client (const std::string &name, const std::string &login, const std::string &password, Date &date)

This constructor is called while loading people_database. It just loads existing client with all it's attributes.

- std::string get_login ()
- std::string get_password ()
- virtual void add_event (Storage &storage) override

The Client can add event using this method, but the event still have to be confirmed by Employee to be displayed in event lists.

Private Attributes

· std::string login

All clients - except default one - has to have unique login.

· std::string password

All clients - except default one - has to also have unique password.

4.3.1 Detailed Description

Class representing our customer. Default customer is Anonymous User and it can only look what's in the store. After signing in our client can also buy stuff and add unapproved events.

4.3 Client Class Reference 13

4.3.2 Constructor & Destructor Documentation

4.3.2.1 Client() [1/3]

```
Client::Client ( )
```

This construcor should be called only by program itself. It creates default Client with name Anonymous User. It doesn't have login and password.

4.3.2.2 Client() [2/3]

This constructor is called when you register as a new Client. It automatically sets your registration date to current day.

4.3.2.3 Client() [3/3]

This constructor is called while loading people_database. It just loads existing client with all it's attributes.

4.3.3 Member Function Documentation

4.3.3.1 add_event()

The Client can add event using this method, but the event still have to be confirmed by Employee to be displayed in event lists.

Implements Person.

4.3.3.2 get_login()

```
std::string Client::get_login ( )
```

4.3.3.3 get_password()

```
std::string Client::get_password ( )
```

4.3.4 Member Data Documentation

4.3.4.1 login

```
std::string Client::login [private]
```

All clients - except default one - has to have unique login.

4.3.4.2 password

```
std::string Client::password [private]
```

All clients - except default one - has to also have unique password.

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

- client.h
- · client.cpp

4.4 Date Class Reference

```
#include <date_class.h>
```

Public Member Functions

• Date ()

Default constructor creating date same as todays date.

Date (const int &day, const int &month, const int &year)

Constructor that is used to add event date or to load dates from database.

bool compare_dates (Date date)

Method that returns true if our passed Date is closer date to our current time.

- int get_year () const
- int get_month () const
- int get_day () const
- ~Date ()

4.4 Date Class Reference

Private Attributes

- int day
- · int month
- int year

4.4.1 Detailed Description

Class representing date. Dates are used to set clients/employees registration date and when events take place.

4.4.2 Constructor & Destructor Documentation

4.4.2.1 Date() [1/2]

```
Date::Date ( )
```

Default constructor creating date same as todays date.

4.4.2.2 Date() [2/2]

Constructor that is used to add event date or to load dates from database.

4.4.2.3 ∼Date()

```
Date::~Date ( )
```

4.4.3 Member Function Documentation

4.4.3.1 compare_dates()

Method that returns true if our passed Date is closer date to our current time.

4.4.3.2 get_day()

```
int Date::get_day ( ) const
```

4.4.3.3 get_month()

```
int Date::get_month ( ) const
```

4.4.3.4 get_year()

```
int Date::get_year ( ) const
```

4.4.4 Member Data Documentation

4.4.4.1 day

```
int Date::day [private]
```

4.4.4.2 month

```
int Date::month [private]
```

4.4.4.3 year

```
int Date::year [private]
```

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

- date_class.h
- date_class.cpp

4.5 Employee Class Reference

#include <employee.h>

Inheritance diagram for Employee:

Collaboration diagram for Employee:

Public Member Functions

• Employee ()

Default constructor that create employee with only name 'Anonymous User'. It's called only by program itself.

• Employee (const std::string &name, const std::string &login, const std::string &password, const double salary, const EmployeePosition employee position)

Constructor that creates employee with all it's attributes.

- EmployeePosition get_employee_position () const
- · double get salary () const
- void approve_event (Storage &storage)

As employee/manager you can approve event added by client. By approving event it can be displayed in event list to everybody.

- std::string get login () const
- std::string get_password () const
- virtual void add_event (Storage &storage) override

As employee/manager you can add event that is already approved.

∼Employee ()

Private Attributes

• std::string login

Employee should have unique login.

· std::string password

Employee should also have unique password.

• EmployeePosition employee_position

Employee unique attribute is it's position.

double salary

Employee unique attribute is also it's salary. It's paid to it by manager.

4.5.1 Detailed Description

Employee is person who can approve events. In future it should also accept supplies etc.

4.5.2 Constructor & Destructor Documentation

4.5.2.1 Employee() [1/2]

```
Employee::Employee ( )
```

Default constructor that create employee with only name 'Anonymous User'. It's called only by program itself.

4.5.2.2 Employee() [2/2]

Constructor that creates employee with all it's attributes.

4.5.2.3 ∼Employee()

```
Employee::\simEmployee ( )
```

4.5.3 Member Function Documentation

4.5.3.1 add event()

As employee/manager you can add event that is already approved.

Implements Person.

4.5.3.2 approve_event()

As employee/manager you can approve event added by client. By approving event it can be displayed in event list to everybody.

4.5.3.3 get_employee_position()

EmployeePosition Employee::get_employee_position () const

4.5.3.4 get_login()

std::string Employee::get_login () const

4.5.3.5 get_password()

std::string Employee::get_password () const

4.5.3.6 get_salary()

double $Employee::get_salary$ () const

4.5.4 Member Data Documentation

4.5.4.1 employee_position

EmployeePosition Employee::employee_position [private]

Employee unique attribute is it's position.

4.5.4.2 login

std::string Employee::login [private]

Employee should have unique login.

4.5.4.3 password

```
std::string Employee::password [private]
```

Employee should also have unique password.

4.5.4.4 salary

```
double Employee::salary [private]
```

Employee unique attribute is also it's salary. It's paid to it by manager.

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

- employee.h
- employee.cpp

4.6 Event Class Reference

```
#include <event.h>
```

Collaboration diagram for Event:

Public Member Functions

- Event (std::string name, std::string description, Date *date, bool is_approved)
 Defalut constructor that creates 'full-grown' event.
- Date * get_date ()
- bool get_is_approved ()
- void set_is_approved ()

This method changes is_approved to true.

- std::string get_name () const
- std::string get_description () const
- ∼Event ()

Private Attributes

std::string name

All events should have name that can be connected to them.

• std::string description

All events should also have description so clients can read more about them.

· bool is_approved

When is_approved is true, the event is displayed to every user. Only Employee/Manager can approve events added by Clients.

• Date * date

Every event should have set date when it takes place.

4.6 Event Class Reference 21

4.6.1 Detailed Description

This class represent single event. Events can be added by everybody but client's one are unapproved.

4.6.2 Constructor & Destructor Documentation

4.6.2.1 Event()

```
Event::Event (
    std::string name,
    std::string description,
    Date * date,
    bool is_approved = false )
```

Defalut constructor that creates 'full-grown' event.

4.6.2.2 ∼Event()

```
Event::~Event ( )
```

4.6.3 Member Function Documentation

4.6.3.1 get_date()

```
Date * Event::get_date ( )
```

4.6.3.2 get description()

```
std::string Event::get_description ( ) const
```

4.6.3.3 get_is_approved()

```
bool Event::get_is_approved ( )
```

4.6.3.4 get_name()

```
std::string Event::get_name ( ) const
```

4.6.3.5 set_is_approved()

```
void Event::set_is_approved ( )
```

This method changes is_approved to true.

4.6.4 Member Data Documentation

4.6.4.1 date

```
Date* Event::date [private]
```

Every event should have set date when it takes place.

4.6.4.2 description

```
std::string Event::description [private]
```

All events should also have description so clients can read more about them.

4.6.4.3 is_approved

```
bool Event::is_approved [private]
```

When is_approved is true, the event is displayed to every user. Only Employee/Manager can approve events added by Clients.

4.6.4.4 name

```
std::string Event::name [private]
```

All events should have name that can be connected to them.

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

- event.h
- event.cpp

4.7 Interface Class Reference

#include <interface.h>

Collaboration diagram for Interface:

Public Member Functions

• Interface ()

Default constructor that create storage and people_database.

• ∼Interface ()

Destructor that calls storage's and people_database's destructors.

void load_interface ()

It is called at a start of program and it loads our databases.

void show_client_interface (Client *client)

This is UI for default Anonymous Client that isn't signed.

void show_logged_client_interface (Client *client)

This is UI for signed in Client.

void show_employee_interface (Employee *employee)

This is UI for signed in Employee.

void show_manager_interface (Manager *manager)

This is UI for signed in Manager.

Private Attributes

- Storage * storage
- PeopleDataBase * people_database
- · int choice

4.7.1 Detailed Description

Class that is used to display text and some 'graphics' in console. What it shows depends on who we're logged as.

4.7.2 Constructor & Destructor Documentation

4.7.2.1 Interface()

```
Interface::Interface ( )
```

Default constructor that create storage and people_database.

4.7.2.2 ∼Interface()

```
Interface::\simInterface ( )
```

Destructor that calls storage's and people_database's destructors.

4.7.3 Member Function Documentation

4.7.3.1 load_interface()

```
void Interface::load_interface ( )
```

It is called at a start of program and it loads our databases.

4.7.3.2 show_client_interface()

This is UI for default Anonymous Client that isn't signed.

4.7.3.3 show_employee_interface()

This is UI for signed in Employee.

4.7.3.4 show_logged_client_interface()

This is UI for signed in Client.

4.7.3.5 show_manager_interface()

This is UI for signed in Manager.

4.7.4 Member Data Documentation

4.7.4.1 choice

```
int Interface::choice [private]
```

4.7.4.2 people_database

```
PeopleDataBase* Interface::people_database [private]
```

4.7.4.3 storage

```
Storage* Interface::storage [private]
```

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

- · interface.h
- interface.cpp

4.8 Manager Class Reference

```
#include <manager.h>
```

Inheritance diagram for Manager:

Collaboration diagram for Manager:

Public Member Functions

• Manager ()

Default constructor that create manager only with name 'Anonymous User'.

 Manager (const std::string &name, const std::string &login, const std::string &password, double salary, EmployeePosition employee_position)

Constructor that creates manager with it's every attribute.

void fire_staff_member (std::vector< Employee * > *employees)

Deletes employee from employee list.

 $\bullet \ \ \mathsf{void} \ \mathsf{show_employee_list} \ (\mathsf{std}::\mathsf{vector} < \mathsf{Employee} \ *> *\mathsf{employees}) \ \mathsf{const} \\$

Display all employees.

void hire_employee (std::vector< Employee * > *employees)

Add new employee to database.

double pay_salary (std::vector< Employee * > *employees)

Checks if employee we're looking for exists and if he does it returns his salary as double.

4.8.1 Detailed Description

Class representing Manager of our store. He is just a employee with more power.

4.8.2 Constructor & Destructor Documentation

4.8.2.1 Manager() [1/2]

```
Manager::Manager ( )
```

Default constructor that create manager only with name 'Anonymous User'.

4.8.2.2 Manager() [2/2]

Constructor that creates manager with it's every attribute.

4.8.3 Member Function Documentation

4.8.3.1 fire_staff_member()

```
void Manager::fire_staff_member ( std::vector < \  \, Employee \ * \  \, * \  \, employees \ )
```

Deletes employee from employee_list.

4.8.3.2 hire_employee()

Add new employee to database.

4.8.3.3 pay_salary()

```
double Manager::pay_salary (
          std::vector< Employee * > * employees )
```

Checks if employee we're looking for exists and if he does it returns his salary as double.

4.8.3.4 show_employee_list()

```
void Manager::show_employee_list ( {\tt std::vector} < {\tt Employee} \ * \ > * \ employees \ ) \ {\tt const}
```

Display all employees.

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

- manager.h
- manager.cpp

4.9 PeopleDataBase Class Reference

```
#include <people_database.h>
```

Public Member Functions

· void add_client ()

Add new client to database.

- void show_clients () const
- void add employee (Employee *employee)

Add new employee to database.

- void show_employee_list () const
- void add_manager (Manager *manager)

Add new manager to database. I made it that it is only one manager in this store but if you want expand it everything is set up.

- · void show managers () const
- std::vector< Client * > get_clients ()
- std::vector< Employee * > * get_employees ()
- std::vector< Manager * > get_managers ()
- · Client * client login form (Client *client)

Display login form for client. If we exit it without signing in, it return Anonymous User which equals to displaying not logged Client UI.

Employee * employee_login_form ()

Display login form for employee. If we exit it without signing in, it return Anonymous User which equals to displaying not logged Client UI.

• Manager * manager_login_form ()

Display login form for manager. If we exit it without signing in, it return Anonymous User which equals to displaying not logged Client UI.

· void load users ()

load every client/employee/manager to our class that represent the databse

· void save users ()

save every client/employee/manager in our txt file

∼PeopleDataBase ()

Constructor that clear every client/employee/manager from it's vectors and then it deletes pointers for this objects.

Private Attributes

- std::vector< Client * > clients
- std::vector< Employee * > employees
- std::vector< Manager * > managers

4.9.1 Detailed Description

Class that represent whole users database.

4.9.2 Constructor & Destructor Documentation

4.9.2.1 ∼PeopleDataBase()

```
PeopleDataBase::~PeopleDataBase ( )
```

Constructor that clear every client/employee/manager from it's vectors and then it deletes pointers for this objects.

4.9.3 Member Function Documentation

4.9.3.1 add_client()

```
void PeopleDataBase::add_client ( )
```

Add new client to database.

4.9.3.2 add_employee()

Add new employee to database.

4.9.3.3 add_manager()

Add new manager to database. I made it that it is only one manager in this store but if you want expand it everything is set up.

4.9.3.4 client_login_form()

Display login form for client. If we exit it without signing in, it return Anonymous User which equals to displaying not logged Client UI.

4.9.3.5 employee_login_form()

```
Employee * PeopleDataBase::employee_login_form ( )
```

Display login form for employee. If we exit it without signing in, it return Anonymous User which equals to displaying not logged Client UI.

4.9.3.6 get_clients()

```
std::vector< Client * > PeopleDataBase::get_clients ( )
```

4.9.3.7 get_employees()

```
\verb|std::vector| < Employee * > * PeopleDataBase::get_employees ( )
```

4.9.3.8 get_managers()

```
std::vector< Manager * > PeopleDataBase::get_managers ( )
```

4.9.3.9 load_users()

```
void PeopleDataBase::load_users ( )
```

load every client/employee/manager to our class that represent the databse

4.9.3.10 manager_login_form()

```
Manager * PeopleDataBase::manager_login_form ( )
```

Display login form for manager. If we exit it without signing in, it return Anonymous User which equals to displaying not logged Client UI.

4.9.3.11 save_users()

```
void PeopleDataBase::save_users ( )
```

save every client/employee/manager in our txt file

4.9.3.12 show_clients()

```
void PeopleDataBase::show_clients ( ) const
```

4.9.3.13 show_employee_list()

```
void PeopleDataBase::show_employee_list ( ) const
```

4.9.3.14 show_managers()

```
void PeopleDataBase::show_managers ( ) const
```

4.9.4 Member Data Documentation

4.9.4.1 clients

```
std::vector<Client*> PeopleDataBase::clients [private]
```

4.9.4.2 employees

```
std::vector<Employee*> PeopleDataBase::employees [private]
```

4.9.4.3 managers

```
std::vector<Manager*> PeopleDataBase::managers [private]
```

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

- · people_database.h
- people_database.cpp

4.10 Person Class Reference

```
#include <person.h>
```

Inheritance diagram for Person:

Collaboration diagram for Person:

Public Member Functions

• Person (std::string name)

Defalut constructor that create Person with name Anonymous User.

Person (const std::string &name, Date &date)

Constructor that creates user with name and date.

void buy_a_product_or_bike (Storage &storage)

With this method everybody can buy products/bikes from storage.

• void order_a_service (Storage &storage)

With this method person can order service and if it goes succesful it gets added to ordered_services vector.

- std::string get_name ()
- void show_registration_date ()

Shows when this person was registered.

• void show_ordered_services ()

Display all ordered services.

- Date get registration date ()
- virtual void add_event (Storage &storage)=0

Vritual method that makes Person pure virtual class. All clients/employees/managers should be able to add event.

Private Attributes

· std::string name

Every person should at least have name so we can refer to it.

· Date registration_date

Every registered person has to have registration date.

• std::vector< std::string > ordered_services

Everybody can order service and this vector contains them.

4.10.1 Detailed Description

Base class for all clients/employees/managers

4.10.2 Constructor & Destructor Documentation

4.10.2.1 Person() [1/2]

Defalut constructor that create Person with name Anonymous User.

4.10.2.2 Person() [2/2]

Constructor that creates user with name and date.

4.10.3 Member Function Documentation

4.10.3.1 add_event()

Vritual method that makes Person pure virtual class. All clients/employees/managers should be able to add event.

Implemented in Employee, and Client.

4.10.3.2 buy_a_product_or_bike()

With this method everybody can buy products/bikes from storage.

4.10.3.3 get_name()

```
std::string Person::get_name ( )
```

4.10.3.4 get_registration_date()

```
Date Person::get_registration_date ( )
```

4.10.3.5 order_a_service()

With this method person can order service and if it goes succesful it gets added to ordered_services vector.

4.10.3.6 show_ordered_services()

```
void Person::show_ordered_services ( )
```

Display all ordered services.

4.10.3.7 show_registration_date()

```
void Person::show_registration_date ( )
```

Shows when this person was registered.

4.10.4 Member Data Documentation

4.10.4.1 name

```
std::string Person::name [private]
```

Every person should at least have name so we can refer to it.

4.10.4.2 ordered_services

```
std::vector<std::string> Person::ordered_services [private]
```

Everybody can order service and this vector contains them.

4.10.4.3 registration_date

```
Date Person::registration_date [private]
```

Every registered person has to have registration date.

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

- · person.h
- person.cpp

4.11 Product Class Reference

```
#include  product.h>
```

Inheritance diagram for Product:

Collaboration diagram for Product:

Public Member Functions

- · Product (const std::string &name, const double price, const std::string &description)
 - Basic constructor that should be called when we want to add new product to our store. It sets quantity to 0.
- Product (const std::string &name, const double price, const std::string &description, const int quantity)
 - Constructor that is used with loading storage from database. It sets product's quantity to it's current ammount.
- void add_quantity (int amount)
 - Add amount we pass to our product/bike quantity.
- void subtract_quantity (int amount)
 - Subtract amount we pass to our product/bike quantity.
- int get_quantity () const
- virtual void show_full_name () override

Display product with all of it's attributes.

Private Attributes

· int quantity

Additional Inherited Members

4.11.1 Detailed Description

base product class for little stuff like tube or handlebar

4.11.2 Constructor & Destructor Documentation

4.11.2.1 Product() [1/2]

Basic constructor that should be called when we want to add new product to our store. It sets quantity to 0.

4.11.2.2 Product() [2/2]

Constructor that is used with loading storage from database. It sets product's quantity to it's current ammount.

4.11.3 Member Function Documentation

4.11.3.1 add_quantity()

Add amount we pass to our product/bike quantity.

4.11.3.2 get_quantity()

```
int Product::get_quantity ( ) const
```

4.11.3.3 show_full_name()

```
void Product::show_full_name ( ) [override], [virtual]
```

Display product with all of it's attributes.

Implements Basic_Product.

Reimplemented in Bike.

4.11.3.4 subtract_quantity()

Subtract amount we pass to our product/bike quantity.

4.11.4 Member Data Documentation

4.11.4.1 quantity

```
int Product::quantity [private]
```

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

- product.h
- · product_class.cpp

4.12 Service Class Reference

```
#include <service.h>
```

Inheritance diagram for Service:

Collaboration diagram for Service:

Public Member Functions

- Service (const std::string &name, const double price, const std::string &description, const int required_days)

 Deafault constructor that creates service with all of it's attributes.
- virtual void show_full_name () override

Method that displays our service attributes.

• bool compare (Service *service)

Method that returns true if our passed service have the same name as this service.

int get_required_days () const

Private Attributes

· int required_days

Services should have a time range so we know how many days it takes to complete for example repairing our bike.

Additional Inherited Members

4.12.1 Detailed Description

This is service that our bike company provide it's supposed to be almost like simple product but services needs to be done in some range of time so that's why this class is created with extra variable (and also services don't have quantity!)

4.12.2 Constructor & Destructor Documentation

4.12.2.1 Service()

```
Service::Service (

const std::string & name,

const double price,

const std::string & description,

const int required days)
```

Deafault constructor that creates service with all of it's attributes.

4.12.3 Member Function Documentation

4.12.3.1 compare()

Method that returns true if our passed service have the same name as this service.

4.12.3.2 get_required_days()

```
int Service::get_required_days ( ) const
```

4.12.3.3 show_full_name()

```
void Service::show_full_name ( ) [override], [virtual]
```

Method that displays our service attributes.

Implements Basic_Product.

4.12.4 Member Data Documentation

4.12.4.1 required days

```
int Service::required_days [private]
```

Services should have a time range so we know how many days it takes to complete for example repairing our bike.

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

- · service.h
- · service class.cpp

4.13 Storage Class Reference

```
#include <storage.h>
```

Public Member Functions

- · void show_storage () const
- · void show_services () const
- void add_event (Event *event)

You can add event to store database with this method.

• void show events ()

Display all approved events.

• void show_unapproved_events ()

Display all unapproved events.

void approve_event (std::string name)

This method approve event with name same as passed name.

- double get_balance () const
- · void set balance (double ammount)

Every time somebody buys something our we have to pay salary to our employee we can do it with this method.

void check_in_storage (std::string &item)

If we want to buy product/bike this method checks if it's in our store and if it is it buys it (subtract quantity and add it's price to our balance)

bool order_a_service (std::string &service)

If we want to order service this method checks if it's in our store and if it is it orders it (adding to our ordered servces list and add it's price to out balance)

• void load_storage ()

load whole products/bikes/services database

• void save_storage ()

Save whole products/bikes/services database.

∼Storage ()

Destructor that deletes all products/bikes/services/events and then clear their pointers.

Private Attributes

```
std::vector< Product * > productsstd::vector< Bike * > bikes
```

- std::vector< Service * > services
- std::vector< Event * > events
- double earnings

Our storage contains this service earnings in 'earnings' variable.

4.13.1 Detailed Description

this class is supposed to store our every product/bike/service and our shop earnings we can check if the product we're looking for is avaible we can check our balance and add/subtract money this is core of our shop

4.13.2 Constructor & Destructor Documentation

4.13.2.1 ~Storage()

```
Storage::~Storage ( )
```

Destructor that deletes all products/bikes/services/events and then clear their pointers.

4.13.3 Member Function Documentation

4.13.3.1 add_event()

You can add event to store database with this method.

4.13.3.2 approve_event()

This method approve event with name same as passed name.

4.13.3.3 check_in_storage()

If we want to buy product/bike this method checks if it's in our store and if it is it buys it (subtract quantity and add it's price to our balance)

4.13.3.4 get_balance()

```
double Storage::get_balance ( ) const
```

4.13.3.5 load_storage()

```
void Storage::load_storage ( )
```

load whole products/bikes/services database

4.13.3.6 order_a_service()

If we want to order service this method checks if it's in our store and if it is it orders it (adding to our ordered servces list and add it's price to out balance)

4.13.3.7 save_storage()

```
void Storage::save_storage ( )
```

Save whole products/bikes/services database.

4.13.3.8 set_balance()

Every time somebody buys something our we have to pay salary to our employee we can do it with this method.

4.13.3.9 show_events()

```
void Storage::show_events ( )
```

Display all approved events.

4.13.3.10 show_services()

```
void Storage::show_services ( ) const
```

4.13.3.11 show_storage()

```
void Storage::show_storage ( ) const
```

4.13.3.12 show_unapproved_events()

```
void Storage::show_unapproved_events ( )
```

Display all unapproved events.

4.13.4 Member Data Documentation

4.13.4.1 bikes

```
std::vector<Bike*> Storage::bikes [private]
```

4.13.4.2 earnings

```
double Storage::earnings [private]
```

Our storage contains this service earnings in 'earnings' variable.

4.13.4.3 events

```
std::vector<Event*> Storage::events [private]
```

4.13.4.4 products

```
std::vector<Product*> Storage::products [private]
```

4.13.4.5 services

```
std::vector<Service*> Storage::services [private]
```

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

- storage.h
- storage.cpp

Chapter 5

File Documentation

5.1 basic_product.h File Reference

```
#include "date_class.h"
#include "enum.h"
#include <iostream>
#include <string>
Include dependency graph for basic_product.h:
```

5.2 basic_product_class.cpp File Reference

```
#include "product.h"
Include dependency graph for basic_product_class.cpp:
```

5.3 bike.h File Reference

```
#include "date_class.h"
#include "basic_product.h"
#include "product.h"
#include "enum.h"
#include <iostream>
#include <string>
```

Include dependency graph for bike.h: This graph shows which files directly or indirectly include this file:

Classes

class Bike

5.4 bike_class.cpp File Reference

```
#include "bike.h"
#include "date_class.h"
#include "enum.h"
Include dependency graph for bike_class.cpp:
```

46 File Documentation

5.5 client.cpp File Reference

```
#include "client.h"
Include dependency graph for client.cpp:
```

5.6 client.h File Reference

```
#include "person.h"
#include "storage.h"
#include "event.h"
#include "date_class.h"
```

Include dependency graph for client.h: This graph shows which files directly or indirectly include this file:

Classes

· class Client

5.7 date_class.cpp File Reference

```
#include "date_class.h"
#include <ctime>
Include dependency graph for date class.cpp:
```

5.8 date_class.h File Reference

```
#include <iostream>
```

Include dependency graph for date_class.h: This graph shows which files directly or indirectly include this file:

Classes

class Date

5.9 employee.cpp File Reference

```
#include "employee.h"
Include dependency graph for employee.cpp:
```

5.10 employee.h File Reference

```
#include "storage.h"
#include "person.h"
#include "enum.h"
```

Include dependency graph for employee.h: This graph shows which files directly or indirectly include this file:

Classes

· class Employee

5.11 enum.cpp File Reference

```
#include "enum.h"
Include dependency graph for enum.cpp:
```

Functions

• std::string TypeToString (const Type type)

Returns bikes type as string.

• std::string EmployeePositionToString (const EmployeePosition employee_position)

Returns employee position as string.

• EmployeePosition StringToEmployeePosition (const std::string &employee_position)

Returns employee position as type 'EmployeePosition'.

Type StringToType (const std::string &type)

Returns bike type as 'Type'.

5.11.1 Function Documentation

5.11.1.1 EmployeePositionToString()

Returns employee position as string.

5.11.1.2 StringToEmployeePosition()

Returns employee position as type 'EmployeePosition'.

48 File Documentation

5.11.1.3 StringToType()

Returns bike type as 'Type'.

5.11.1.4 TypeToString()

Returns bikes type as string.

5.12 enum.h File Reference

```
#include <iostream>
```

Include dependency graph for enum.h: This graph shows which files directly or indirectly include this file:

Enumerations

enum Type { mountain, city, universal }

Types of bikes in store.

• enum EmployeePosition { warehouseman, adviser, service_technician, manager }

Avaible employee positions.

Functions

• std::string TypeToString (const Type type)

Returns bikes type as string.

• std::string EmployeePositionToString (const EmployeePosition employee_position)

Returns employee position as string.

• EmployeePosition StringToEmployeePosition (const std::string &employee_position)

Returns employee position as type 'EmployeePosition'.

Type StringToType (const std::string &type)

Returns bike type as 'Type'.

5.12.1 Enumeration Type Documentation

5.12.1.1 EmployeePosition

```
enum EmployeePosition
```

Avaible employee positions.

Enumerator

warehouseman	
adviser	
service_technician	
manager	

5.12.1.2 Type

```
enum Type
```

Types of bikes in store.

Enumerator

mountain	
city	
universal	

5.12.2 Function Documentation

5.12.2.1 EmployeePositionToString()

Returns employee position as string.

5.12.2.2 StringToEmployeePosition()

Returns employee position as type 'EmployeePosition'.

50 File Documentation

5.12.2.3 StringToType()

Returns bike type as 'Type'.

5.12.2.4 TypeToString()

Returns bikes type as string.

5.13 event.cpp File Reference

```
#include "event.h"
Include dependency graph for event.cpp:
```

5.14 event.h File Reference

```
#include <ctime>
#include <iostream>
#include "date_class.h"
```

Include dependency graph for event.h: This graph shows which files directly or indirectly include this file:

Classes

· class Event

5.15 interface.cpp File Reference

```
#include "interface.h"
#include <iomanip>
```

Include dependency graph for interface.cpp:

5.16 interface.h File Reference

```
#include "storage.h"
#include "people_database.h"
#include "person.h"
#include "client.h"
#include "employee.h"
#include "enum.h"
#include "manager.h"
#include <iostream>
#include <vector>
```

Include dependency graph for interface.h: This graph shows which files directly or indirectly include this file:

Classes

· class Interface

5.17 main.cpp File Reference

```
#include "interface.h"
#include "client.h"
Include dependency graph for main.cpp:
```

Functions

• int main ()

5.17.1 Function Documentation

5.17.1.1 main()

```
int main ( )
```

5.18 manager.cpp File Reference

```
#include "manager.h"
Include dependency graph for manager.cpp:
```

5.19 manager.h File Reference

```
#include "person.h"
#include "employee.h"
```

Include dependency graph for manager.h: This graph shows which files directly or indirectly include this file:

Classes

· class Manager

5.20 people_database.cpp File Reference

```
#include "people_database.h"
Include dependency graph for people_database.cpp:
```

52 File Documentation

5.21 people_database.h File Reference

```
#include "person.h"
#include "client.h"
#include "employee.h"
#include "manager.h"
#include "enum.h"
#include <iostream>
#include <vector>
#include <fstream>
```

Include dependency graph for people_database.h: This graph shows which files directly or indirectly include this file:

Classes

· class PeopleDataBase

5.22 person.cpp File Reference

```
#include "person.h"
Include dependency graph for person.cpp:
```

5.23 person.h File Reference

```
#include "date_class.h"
#include "storage.h"
#include <iostream>
```

Include dependency graph for person.h: This graph shows which files directly or indirectly include this file:

Classes

class Person

5.24 product.h File Reference

```
#include "date_class.h"
#include "basic_product.h"
#include "enum.h"
#include <iostream>
#include <string>
```

Include dependency graph for product.h: This graph shows which files directly or indirectly include this file:

Classes

class Product

5.25 product class.cpp File Reference

```
#include "product.h"
Include dependency graph for product_class.cpp:
```

5.26 service.h File Reference

```
#include "date_class.h"
#include "basic_product.h"
#include <iostream>
#include <string>
```

Include dependency graph for service.h: This graph shows which files directly or indirectly include this file:

Classes

class Service

5.27 service_class.cpp File Reference

```
#include "service.h"
Include dependency graph for service_class.cpp:
```

5.28 storage.cpp File Reference

```
#include "storage.h"
Include dependency graph for storage.cpp:
```

5.29 storage.h File Reference

```
#include "product.h"
#include "basic_product.h"
#include "service.h"
#include "bike.h"
#include "event.h"
#include "date_class.h"
#include "enum.h"
#include <iostream>
#include <vector>
#include <fstream>
```

Include dependency graph for storage.h: This graph shows which files directly or indirectly include this file:

Classes

class Storage

54 File Documentation

Index

Data	about full name 11
~Date	show_full_name, 11
Date, 15	type, 11
~Employee	wheel_size, 11
Employee, 18	bike.h, 45
~Event	bike_class.cpp, 45
Event, 21	bikes
~Interface	Storage, 42
Interface, 23	buy_a_product_or_bike
~PeopleDataBase	Person, 33
PeopleDataBase, 28	shock in storage
~Storage	check_in_storage Storage, 40
Storage, 40	choice
add_client	
	Interface, 25
PeopleDataBase, 29	city
add_employee	enum.h, 49
PeopleDataBase, 29	Client, 12
add_event	add_event, 13
Client, 13	Client, 13
Employee, 18	get_login, 13
Person, 33	get_password, 14
Storage, 40	login, 14
add_manager	password, 14
PeopleDataBase, 29	client.cpp, 46
add_quantity	client.h, 46
Product, 36	client_login_form
adviser	PeopleDataBase, 29
enum.h, 49	clients
approve_event	PeopleDataBase, 31
Employee, 18	compare
Storage, 40	Service, 38
basic_price	compare_dates Date, 15
Basic_Product, 8	Date, 15
Basic Product, 7	Date, 14
basic price, 8	\sim Date, 15
Basic Product, 8	compare dates, 15
description, 9	Date, 15
get_description, 8	day, 16
get_name, 8	get_day, 15
get_price, 8	get month, 16
name, 9	get_year, 16
price, 9	month, 16
show_full_name, 8	year, 16
basic product.h, 45	date
basic_product_class.cpp, 45	Event, 22
Bike, 9	date_class.cpp, 46
Bike, 10	date class.h, 46
get_bike_type, 11	day
get_wheel_size, 11	Date, 16
~ — — /	, -

56 INDEX

description	get_name, 21
Basic_Product, 9	is_approved, 22
Event, 22	name, 22
a a uni a a a	set_is_approved, 22
earnings	event.cpp, 50
Storage, 42	event.h, 50
Employee, 17	events
~Employee, 18	Storage, 42
add_event, 18	
approve_event, 18	fire_staff_member
Employee, 17, 18	Manager, 26
employee_position, 19	get belonee
get_employee_position, 18	get_balance
get_login, 19	Storage, 41
get_password, 19	get_bike_type
get_salary, 19	Bike, 11
login, 19	get_clients
password, 19	PeopleDataBase, 29
salary, 20	get_date
employee.cpp, 46	Event, 21
employee.h, 46	get_day
employee_login_form	Date, 15
PeopleDataBase, 29	get_description
employee_position	Basic_Product, 8
Employee, 19	Event, 21
EmployeePosition	get_employee_position
enum.h, 48	Employee, 18
EmployeePositionToString	get_employees
enum.cpp, 47	PeopleDataBase, 30
enum.h, 49	get_is_approved
employees	Event, 21
PeopleDataBase, 31	get_login
enum.cpp, 47	Client, 13
EmployeePositionToString, 47	Employee, 19
StringToEmployeePosition, 47	get_managers
StringToType, 47	PeopleDataBase, 30
TypeToString, 48	get_month
enum.h, 48	Date, 16
adviser, 49	get_name
city, 49	Basic_Product, 8
EmployeePosition, 48	Event, 21
EmployeePositionToString, 49	Person, 33
manager, 49	get_password
mountain, 49	Client, 14
service_technician, 49	Employee, 19
StringToEmployeePosition, 49	get_price
StringToType, 49	Basic_Product, 8
Type, 49	get_quantity
TypeToString, 50	Product, 36
universal, 49	get_registration_date
warehouseman, 49	Person, 33
Event, 20	get_required_days
~Event, 21	Service, 38
date, 22	get_salary
description, 22	Employee, 19
Event, 21	get_wheel_size
get_date, 21	Bike, 11
get_description, 21	get_year
get_is_approved, 21	Date, 16

INDEX 57

hire_employee	Storage, 41
Manager, 27	ordered_services
	Person, 34
Interface, 23	
\sim Interface, 23	password
choice, 25	Client, 14
Interface, 23	Employee, 19
load_interface, 24	pay_salary
people_database, 25	Manager, 27
show_client_interface, 24	people_database
show_employee_interface, 24	Interface, 25
show_logged_client_interface, 24	people_database.cpp, 51
show_manager_interface, 24	people_database.h, 52
storage, 25	PeopleDataBase, 27
interface.cpp, 50	\sim PeopleDataBase, 28
interface.h, 50	add_client, 29
is_approved	add_employee, 29
Event, 22	add_manager, 29
	client_login_form, 29
load_interface	clients, 31
Interface, 24	employee_login_form, 29
load_storage	employees, 31
Storage, 41	get_clients, 29
load users	get_employees, 30
PeopleDataBase, 30	get_managers, 30
login	load_users, 30
Client, 14	manager_login_form, 30
Employee, 19	managers, 31
	save_users, 30
main	show_clients, 30
main.cpp, 51	show_employee_list, 30
main.cpp, 51	show_managers, 31
main, 51	Person, 31
Manager, 25	add_event, 33
fire staff member, 26	buy_a_product_or_bike, 33
hire_employee, 27	get_name, 33
Manager, 26	get_registration_date, 33
pay_salary, 27	name, 34
show_employee_list, 27	order_a_service, 33
manager	ordered_services, 34
enum.h, 49	Person, 32
manager.cpp, 51	registration date, 34
manager.h, 51	show ordered services, 34
manager_login_form	show_registration_date, 34
PeopleDataBase, 30	person.cpp, 52
managers	person.h, 52
PeopleDataBase, 31	price
month	Basic_Product, 9
Date, 16	Product, 35
	add_quantity, 36
mountain	get_quantity, 36
enum.h, 49	Product, 35, 36
nama	quantity, 37
name	
Pacia Product 0	
Basic_Product, 9	show_full_name, 36
Event, 22	show_full_name, 36 subtract_quantity, 36
	show_full_name, 36 subtract_quantity, 36 product.h, 52
Event, 22 Person, 34	show_full_name, 36 subtract_quantity, 36 product.h, 52 product_class.cpp, 53
Event, 22	show_full_name, 36 subtract_quantity, 36 product.h, 52

58 INDEX

and a sale of	Chavers 40
quantity	Storage, 42
Product, 37	show_unapproved_events
registration_date	Storage, 42
Person, 34	Storage, 39
required_days	~Storage, 40
Service, 39	add_event, 40
Service, 39	approve_event, 40
salary	bikes, 42
Employee, 20	check_in_storage, 40
save storage	earnings, 42
Storage, 41	events, 42
-	get_balance, 41
save_users PeopleDataBase, 30	load_storage, 41
Service, 37	order_a_service, 41
compare, 38	products, 43
get_required_days, 38	save_storage, 41
required_days, 39	services, 43
	set_balance, 41
Service, 38	show_events, 41
show_full_name, 38	show_services, 42
service.h, 53	show_storage, 42
service_class.cpp, 53	show_unapproved_events, 42
service_technician	storage
enum.h, 49	Interface, 25
services	storage.cpp, 53
Storage, 43	storage.h, 53
set_balance	StringToEmployeePosition
Storage, 41	enum.cpp, 47
set_is_approved	enum.h, 49
Event, 22	StringToType
show_client_interface	enum.cpp, 47
Interface, 24	enum.h, 49
show_clients	subtract_quantity
PeopleDataBase, 30	Product, 36
show_employee_interface	-
Interface, 24	Type
show_employee_list	enum.h, 49
Manager, 27	type
PeopleDataBase, 30	Bike, 11
show_events	TypeToString
Storage, 41	enum.cpp, 48
show_full_name	enum.h, 50
Basic_Product, 8	universal
Bike, 11	enum.h, 49
Product, 36	enum.n, 49
Service, 38	warehouseman
show_logged_client_interface	enum.h, 49
Interface, 24	wheel_size
show_manager_interface	Bike, 11
Interface, 24	Sino, TT
show_managers	year
PeopleDataBase, 31	Date, 16
show_ordered_services	, -
Person, 34	
show_registration_date	
Person, 34	
show_services	
Storage, 42	
show_storage	