MainWindow
- -ui : Ui::MainWindow
- - currentuser : shared_ptr<User>
- +MainWindow(QWidget *) : MainWindow
- +~MainWindow() : void
- +inizializeMainWindowsUi(shared_ptr<User>) : void
- ... private slots for handling ui event...
- +(signal) logout() : void
- -nullNewUserAttribute() : bool
- -nullNewOperationAttribute() : bool
- -clearNewUserAttribute() : void
- -clearNewOperationAttribute() : void

LoginForm
- -ui : Ui::LoginForm
- -mainwindow_ref : MainWindow*
- +LoginForm(QWidget*, MainWindow*) : LoginForm
- +~LoginForm() : void
- -(slot) on_pushButton_login_clicked() : void
- -(slot) logout : void

Helpers
- +extract_values_from_map(std::map<TK, TV> const& input_map) : std::vector<TV>

OperationRepository
- -operationtable : map<int, shared_ptr<Operation>
- -instance : OperationRepository*
- -OperationRepository() : OperationRepository
- +getInstance() : OperationRepository*
- + getOperationById(int) : shared_ptr<Operation>
- +insertOperation(Operation*) : void
- +removeOperation(int) : bool
- +getAllOperation() : vector<shared_ptr<Operation>>
- +getAllOperation(QDate&) : vector<shared_ptr<Operation>>
- +getAllOperation(int) : vector<shared_ptr<Operation>>
- +getAllOperation(int, QDate&) : vector<shared_ptr<Operation>>
- +~OperationRepository() : void

UserRepository
- -usertable : map<int, shared_ptr<User>
- -instance : UserRepository*
- -UserRepository() : UserRepository
- +getInstance() : UserRepository*
- +getUserById(int) : shared_ptr<User>
- +getAllUser() : vector<shared_ptr<User>>
- +insertUser(User*) : void
- +removeUser(int) : bool
- +~TeamRepository() : void

TeamRepository
- -teamtable : map<int, shared_ptr<Team>
- -instance : TeamRepository*
- -TeamRepository() : TeamRepository
- +getInstance() : TeamRepository*
- + getTeamById(int) : shared_ptr<Team>
- +getAllTeam() : vector<shared_ptr<Team>>
- +insertTeam(Team*) : void
- +removeTeam(int) : bool
- +~TeamRepository() : void

User
- #iduser : int
- #password : QString
- #name : QString
- #surname : QString
- #birthday : QDate*
- #email : QString
- #cellnumber : QString
- #sex : QChar
- #picture : QPixmap*
- -idprog : int
- +User() : User
- +User(QString&, QString&, QString&, QDate*, QString&, QString&, QChar&, QPixmap*) : User
- +(virtual) ~User()
- +getIduser() : int
- +setIduser(int) : void
- +getPassword() : QString&
- +setPassword(QString&) : void
- +getName() : QString&
- +setName(QString&) : void
- +getSurname() : QString&
- +setSurname(QString&) : void
- +getBirthday() : QDate*
- +setBirthday(QDate*) : void
- +getEmail() : QString&
- +setEmail(QString&)
- +getCellnumber() : QString&
- +setCellnumber(QString&) : void
- +getSex() : QChar&
- +setSex(QChar&) : void
- +(virtual) initializeMainWindow(Ui::MainWindow*) : void
- +(virtual) toString() : QString
- +(virtual) getTeam() : shared_ptr<Team> = 0

Operation
- -idoperation : int
- -idprog : int
- -name : QString
- -address : QString
- -coordinate : QGeoCoordinate*
- -petitioner : QString
- -cellnumber : QString
- -color : COLOR
- -leader : shared_ptr<User>
- -team : shared_ptr<Team>
- -starttime : QDateTime*
- -finishtime : QDateTime*
- +Operation() : Operation
- +Operation(QString, QString, QGeoCoordinate*, QString, QString, COLOR, shared_ptr<User>, shared_ptr<Team>, QDateTime*, QDateTime*) : Operation
- +~Operation() : void
- ... getter and setters...
- +colorToString(COLOR) : QString
- +colorToIcon(COLOR) : QIcon
- +stringToColor(QString) : COLOR

<<Enumeration>> COLOR
- RED
- ORANGE
- GREEN

Team
- -idteam : int
- -name : QString
- -areaname : QString
- -coordinate : QGeoCoordinate*
- -idprog : int
- +Team() : Team
- +Team(QString&, QString&, QGeoCoordinate*)
- +~Team() : void
- +getIdteam() : int
- +setIdteam(int) : void
- +getName() : QString&
- +setName(QString&) : void
- +getAreaname : QString&
- +setAreaname(QString&) : void
- +getCoordinate() : QGeoCoordinate*
- +setCoordinate(QGeoCoordinate*) : void
- +toString() : QString

Volunteer
- #team : shared_ptr<Team>
- +Volunteer() : Volunteer
- +Volunteer(QString&, QString&, QString&, QDate*, QString&, QString&, QChar&, QPixmap*, shared_ptr<Team> team = shared_ptr<Team>(nullptr)) : Volunteer
- +(virtual) ~Volunteer() : void
- +(virtual) getTeam() : shared_ptr<Team>
- +setTeam(shared_ptr<Team>) : void
- +(virtual) initializeMainWindow(Ui::MainWindow* ui) : void
- +(virtual) populateOperationList(QListWidget *list, const QDate &date) : void
- +(virtual) toString() : QString

Administrator
- +Administartor() : Administrator
- +Administartor(QString&, QString&, QString&, QDate*, QString&, QString&, QChar&, QPixmap*) : Administrator
- +(virtual) ~Administrator() : void
- +(virtual) initializeMainWindow(Ui::MainWindow*) : void
- +(virtual) addNewUser(User* user) : void
- +(virtual) addNewUser(Volunteer* volunteer, int idteam) : void
- +(virtual) populateComboBoxTeams(QComboBox* comboBox, bool isForeman) : void
- +(virtual) populateListBoxUsers(QListWidget* listWidget, int idteam = -1) : void
- +(virtual) deleteUser(int iduser) : void
- +(virtual) getTeam() : shared_ptr<Team>

Foreman
- +Foreman() : Foreman
- +Foreman(QString&, QString&, QString&, QDate*, QString&, QString&, QChar&, QPixmap*, shared_ptr<Team> team = shared_ptr<Team>(nullptr)) : Foreman
- +(virtual) ~Foreman() : void
- +(virtual) populateComboBoxTeams(QComboBox* comboBox, bool isForeman) : void
- +(virtual) populateOperationList(QListWidget *oplist, const QDate &date) : void
- +(virtual) getTeam() : shared_ptr<Team>
- +populateVolunteerComboBox(QComboBox *comboBox) : void
- +addNewOperation(Operation* newop) : void