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FileBoxController.cpp

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```

1  #include <Path.h>
2  #include "FileBoxController.h"
3  #include "FileWriter.h"
4  #include "FileReader.h"
5  #include "InvalidMapError.h"
6
7  static const char *const NEW_FILE_NAME = "Sin titulo.yaml";
8
9  FileBoxController::FileBoxController(UsablesController &wep_controller,
10                                     std::shared_ptr<MapController> map_controller,
11                                     const Glib::RefPtr<Gtk::Builder> &builder )
12      : usables_controller(wep_controller),
13        map_controller(std::move(map_controller))
14 {
15     builder->get_widget("save_dialog", save_dialog);
16     save_dialog->add_button("Cancelar", Gtk::RESPONSE_CANCEL);
17     save_dialog->add_button("Guardar", Gtk::RESPONSE_OK);
18
19     builder->get_widget("map_name", map_name);
20
21     builder->get_widget("open_dialog", open_dialog);
22     open_dialog->add_button("Cancelar", Gtk::RESPONSE_CANCEL);
23     open_dialog->add_button("Abrir", Gtk::RESPONSE_OK);
24
25 }
26
27 void FileBoxController::onSaveClicked() const {
28     try {
29         std::vector<std::vector<double>> worms;
30         std::vector<std::vector<double>> girders;
31         map_controller->getObjects(worms, girders);
32         std::string background= map_controller->getBackgroundName();
33
34         std::vector<int> weapons_ammo;
35         unsigned int life;
36         usables_controller.getWeaponsAndLife(weapons_ammo, life);
37
38         save_dialog->set_current_folder(MAPS_PATH);
39         save_dialog->set_current_name(map_name->get_text());
40         int result = save_dialog->run();
41         if (result==Gtk::RESPONSE_OK) {
42             std::string filename = save_dialog->get_filename();
43             map_name->set_label(save_dialog->get_current_name());
44             FileWriter file(filename);
45             file.save(weapons_ammo, worms,
46                     girders, life,background);
47         }
48         save_dialog->hide();
49     } catch(const InvalidMapError &error){
50         error.what();
51     }
52 }
53
54 }
55
56 void FileBoxController::onLoadClicked() const {
57     open_dialog->set_current_folder(MAPS_PATH);
58     int result = open_dialog->run();
59     if (result==Gtk::RESPONSE_OK) {
60         std::string filename = open_dialog->get_filename();
61         map_name->set_label(open_dialog->get_current_name());
62
63         std::vector<std::vector<double>> worms;
64         std::vector<std::vector<double>> girders;
65         std::vector<int> weps_ammo;
66         unsigned int life;

```

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FileBoxController.cpp

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```

67         std::string background;
68
69         FileReader file(filename);
70         file.read(worms, girders,
71                 weps_ammo, life, background);
72
73         map_controller->loadBackground(background);
74         usables_controller.loadWeapons(weps_ammo, life);
75         map_controller->loadObjects(worms, girders);
76     }
77     open_dialog->hide();
78 }
79
80
81 void FileBoxController::onNewClicked() const {
82     map_name->set_label(NEW_FILE_NAME);
83     usables_controller.onResetSignal();
84     map_controller->newMapSignal();
85 }
86

```

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FileBoxController.h

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```

1
2 #ifndef WORMS_FILECONTROLLER_H
3 #define WORMS_FILECONTROLLER_H
4
5 #include <gtkmm/filechooserdialog.h>
6 #include "FileBoxView.h"
7 #include "UsablesController.h"
8 #include "MapController.h"
9
10 class FileBoxController {
11 private:
12     UsablesController &usables_controller;
13     std::shared_ptr<MapController> map_controller;
14     Gtk::FileChooserDialog* save_dialog;
15     Gtk::FileChooserDialog* open_dialog;
16     Gtk::Label* map_name;
17
18 public:
19     FileBoxController(UsablesController &wep_controller,
20                     std::shared_ptr<MapController> map_controller,
21                     const Glib::RefPtr<Gtk::Builder> &builder);
22
23     void onSaveClicked() const;
24
25     void onLoadClicked() const;
26
27     void onNewClicked() const;
28 };
29
30
31 #endif //WORMS_FILECONTROLLER_H

```

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MapController.cpp

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```

1
2 #include <gtkmm/messagedialog.h>
3 #include <ViewPositionTransformer.h>
4 #include "MapController.h"
5 #include "InvalidMapError.h"
6
7 #define ADD_MODE_ID 0
8 #define MOVE_CMD_ID 1
9 #define SELECT_MODE_ID 2
10
11
12 MapController::MapController(Map model,
13                             const Glib::RefPtr<Gtk::Builder> &builder)
14     : model(std::move(model)), item_id_to_add(1),
15       actual_mode(ADD_MODE_ID)
16 {
17     builder->get_widget_derived("map", view);
18     builder->get_widget_derived("toolbox", toolBox);
19     view->bindController(this);
20     toolBox->bindController(this);
21 }
22
23 void MapController::addModeSignal(const unsigned int &id) {
24     this->actual_mode = ADD_MODE_ID;
25     this->item_id_to_add = id;
26 }
27
28 void MapController::eraseSignal() {
29     model.erase(index_object_selected);
30     view->erase(index_object_selected);
31     toolBox->hideSelected();
32     toolBox->disableMovingItems();
33 }
34
35 void MapController::newMapSignal() {
36     model.clean();
37     view->clean();
38     toolBox->closeSelectionMode();
39 }
40
41 void MapController::moveSignal() {
42     this->actual_mode = MOVE_CMD_ID;
43 }
44
45 void MapController::changeModeSignal() {
46     this->actual_mode = (actual_mode==ADD_MODE_ID? SELECT_MODE_ID:ADD_MODE_ID);
47     if (actual_mode==ADD_MODE_ID) toolBox->closeSelectionMode();
48 }
49
50 void MapController::turn(const int &rotation) {
51     if (model.isGirder(index_object_selected)) {
52         unsigned int id;
53         int new_angle = this->model.turn(index_object_selected, id, rotation);
54         this->view->turn(id, new_angle, index_object_selected);
55     }
56 }
57
58 void MapController::turnCCWSignal() {
59     turn(10);
60 }
61
62 void MapController::turnCWSignal() {
63     turn(-10);
64 }
65
66 void MapController::mapClickedSignal(GdkEventButton *event_button) {

```

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MapController.cpp

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```

67     if (actual_mode == MOVE_CMD_ID) {
68         this->model.move(index_object_selected, event_button->x,
69             event_button->y);
70         this->view->move(index_object_selected, event_button->x,
71             event_button->y);
72         actual_mode = SELECT_MODE_ID;
73     } else if (actual_mode == SELECT_MODE_ID) {
74         this->index_object_selected = view->select(event_button->x,
75             event_button->y);
76         if (index_object_selected > -1) {
77             toolBox->enableMovingItems();
78             toolBox->showSelected(model.getItemID(index_object_selected));
79         } else {
80             toolBox->disableMovingItems();
81             toolBox->hideSelected();
82         }
83         actual_mode = SELECT_MODE_ID; //cambio de estado del toolbox llama a add
84     } else {
85         this->model.add(item_id_to_add, event_button->x, event_button->y);
86         this->view->add(item_id_to_add, event_button->x, event_button->y);
87     }
88 }
89
90 void MapController::getObjects(std::vector<std::vector<double>> &worms,
91     std::vector<std::vector<double>> &girders) const
92 {
93     model.getObjects(worms, girders);
94     if (worms.empty()) {
95         throw InvalidMapError("El mapa actual no contiene worms");
96     }
97     if (girders.empty()) {
98         throw InvalidMapError("El mapa actual no contiene vigas");
99     }
100     ViewPositionTransformer transformer(*view);
101     for (std::vector<double> &worm : worms) {
102         Position position(worm[0], worm[1]);
103         Position new_pos = transformer.transformToPosition(position);
104         worm[0] = new_pos.getX();
105         worm[1] = new_pos.getY();
106     }
107     for (std::vector<double> &girder : girders) {
108         Position position(girder[1], girder[2]);
109         Position new_pos = transformer.transformToPosition(position);
110         girder[1] = new_pos.getX();
111         girder[2] = new_pos.getY();
112     }
113 }
114
115 void MapController::loadObjects(std::vector<std::vector<double>> &worms,
116     std::vector<std::vector<double>> &girders) {
117     newMapSignal();
118     ViewPositionTransformer transformer(*view);
119     for (std::vector<double> &worm:worms) {
120         Position position(worm[0], worm[1]);
121         Position new_pos = transformer.transformToScreen(position);
122         worm[0] = new_pos.getX();
123         worm[1] = new_pos.getY();
124         this->model.add(1, worm[0], worm[1]);
125         this->view->add(1, worm[0], worm[1]);
126     }
127     for (std::vector<double> &girder:girders) {
128         Position position(girder[1], girder[2]);
129         Position new_pos = transformer.transformToScreen(position);
130         girder[1] = new_pos.getX();

```

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MapController.cpp

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```

131         girder[2] = new_pos.getY();
132         this->model.add(girder[0], girder[1], girder[2], girder[3]);
133         this->view->add(girder[0], girder[1], girder[2], girder[3]);
134     }
135 }
136
137 void MapController::changeBackgroundSignal() const {
138     this->view->changeBackground();
139 }
140
141 const std::string MapController::getBackgroundName() const {
142     return view->getBackgroundName();
143 }
144
145 void MapController::loadBackground(const std::string &background) {
146     view->loadBackground(background);
147 }

```

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MapController.h

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```

1
2 #ifndef WORMS_MAPCONTROLLER_H
3 #define WORMS_MAPCONTROLLER_H
4
5 #include "MapView.h"
6 #include "Map.h"
7 #include "ToolBoxView.h"
8
9 class MapView;
10 class ToolBoxView;
11
12 class MapController {
13     Map model;
14     MapView *view;
15     ToolBoxView *toolBox;
16     unsigned int item_id_to_add;
17     unsigned int actual_mode;
18     int index_object_selected;
19
20     void turn(const int &rotation);
21 public:
22     MapController(Map model, const Glib::RefPtr<Gtk::Builder> &builder);
23
24     void addModeSignal(const unsigned int &id);
25
26     void eraseSignal();
27
28     void newMapSignal();
29
30     void moveSignal();
31
32     void turnCCWSignal();
33
34     void mapClickedSignal(GdkEventButton *event_button);
35
36     void getObjects(std::vector<std::vector<double>> &worms,
37                     std::vector<std::vector<double>> &girders) const;
38
39     void loadObjects(std::vector<std::vector<double>> &worms,
40                     std::vector<std::vector<double>> &girders);
41
42     void turnCWSignal();
43
44     void changeBackgroundSignal() const;
45
46     void changeModeSignal();
47
48     const std::string getBackgroundName() const;
49
50     void loadBackground(const std::string &background);
51 };
52
53
54 #endif //WORMS_MAPCONTROLLER_H

```

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UsablesController.cpp

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```

1
2 #include "UsablesController.h"
3 #include "InvalidMapError.h"
4
5 UsablesController::UsablesController(
6     const Glib::RefPtr<Gtk::Builder> &builder) {
7     builder->get_widget("btn_reset", reset_button);
8     reset_button->signal_clicked().connect(
9         sigc::mem_fun(*this,
10                        &UsablesController::onResetSignal));
11
12     builder->get_widget_derived("life", life_spinner);
13
14     for (size_t i = 1; i <= 10; ++i) {
15         std::shared_ptr<WeaponView> weapon_view(new WeaponView(builder, i));
16
17         std::shared_ptr<Weapon> weapon
18             (new Weapon(weapon_view->getInitialAmmo()));
19
20         weapons.push_back(weapon);
21
22         std::shared_ptr<WeaponController> weapon_controller(
23             new WeaponController(weapon_view,
24                                 weapon));
25         wep_controllers.push_back(std::move(weapon_controller));
26         weapons_view.push_back(weapon_view);
27     }
28 }
29
30 void UsablesController::onResetSignal() {
31     life_spinner->reset();
32     for (const std::shared_ptr<WeaponController> &actual_controller:wep_controll
33 ers) {
34         actual_controller->resetAmmo();
35     }
36 }
37
38 void UsablesController::getWeaponsAndLife(std::vector<int> &weps_amm,
39 unsigned int &life) const {
40     life = life_spinner->get_value();
41     for (const std::shared_ptr<WeaponController> &actual_controller:wep_controll
42 ers) {
43         weps_amm.push_back(actual_controller->getAmmo());
44     }
45     if (!isValidWeaponSet(weps_amm)) {
46         throw InvalidMapError("Ning n arma tiene munic n");
47     }
48 }
49
50 void UsablesController::loadWeapons(std::vector<int> &weps_amm,
51 const unsigned int &life) const {
52     int i = 0;
53     for (const std::shared_ptr<WeaponController> &actual_controller
54 :wep_controllers) {
55         actual_controller->updateAmmo(weps_amm[i]);
56         i++;
57     }
58     life_spinner->update(life);
59 }
60
61 bool
62 UsablesController::isValidWeaponSet(std::vector<int> &ammo_vector) const {
63     for (int actual_ammo : ammo_vector) {
64         if (actual_ammo != 0)
65             return true;
66     }
67 }

```

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UsablesController.cpp

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```

65     return false;
66 }

```

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UsablesController.h

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```

1
2  #ifndef WORMS_WEAPONSLISTCONTROLLER_H
3  #define WORMS_WEAPONSLISTCONTROLLER_H
4
5
6  #include <gtkmm/button.h>
7  #include <gtkmm/spinbutton.h>
8  #include "Weapon.h"
9  #include "WeaponView.h"
10 #include "LifeView.h"
11
12 class UsablesController {
13 private:
14     LifeView *life_spinner;
15     Gtk::Button *reset_button;
16     std::vector<std::shared_ptr<Weapon>> weapons;
17     std::vector<std::shared_ptr<WeaponView>> weapons_view;
18     std::vector<std::shared_ptr<WeaponController> > wep_controllers;
19
20     bool isValidWeaponSet(std::vector<int> &ammo_vector) const;
21 public:
22     explicit UsablesController(
23         const Glib::RefPtr<Gtk::Builder> &builder);
24
25     void onResetSignal();
26
27     void getWeaponsAndLife(std::vector<int> &weps_ammo, unsigned int &life) const;
28
29     void
30     loadWeapons(std::vector<int> &weps_ammo, const unsigned int &life) const;
31
32 };
33
34
35
36 #endif //WORMS_WEAPONSLISTCONTROLLER_H

```

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WeaponController.cpp

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```

1
2  #include "WeaponController.h"
3
4  WeaponController::WeaponController(std::shared_ptr<WeaponView> View,
5                                     std::shared_ptr<Weapon> model)
6      : weapon_view(std::move(View)),
7        weapon_model(std::move(model)) {
8      weapon_view->bindController(this);
9  }
10
11 void WeaponController::resetAmmo() {
12     weapon_view->resetAmmo();
13     weapon_model->resetAmmo();
14 }
15
16 void WeaponController::updateAmmo(const int &ammo) {
17     weapon_model->setAmmo(ammo);
18     weapon_view->setAmmo(ammo);
19 }
20
21 int WeaponController::getAmmo() {
22     return weapon_model->getAmmo();
23 }

```

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WeaponController.h

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```

1
2  #ifndef WORMS_WEAPONCONTROLLER_H
3  #define WORMS_WEAPONCONTROLLER_H
4
5  #include "WeaponView.h"
6  #include "Weapon.h"
7
8  class WeaponView;
9
10 class WeaponController {
11 private:
12     std::shared_ptr<WeaponView> weapon_view;
13     std::shared_ptr<Weapon> weapon_model;
14 public:
15     WeaponController(std::shared_ptr<WeaponView>,
16                     std::shared_ptr<Weapon>
17                     model);
18
19     void resetAmmo();
20
21     void updateAmmo(const int &ammo);
22
23     int getAmmo();
24 };
25
26
27 #endif //WORMS_WEAPONCONTROLLER_H

```

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main.cpp

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```

1  #include <gtkmm/application.h>
2  #include <gtkmm/builder.h>
3  #include <giomm.h>
4  #include <iostream>
5  #include <gtkmm/scrolledwindow.h>
6  #include <gtkmm/window.h>
7  #include "Editor.h"
8  #include "Path.h"
9
10 int main() {
11     Glib::RefPtr<Gtk::Application> app = Gtk::Application::create();
12     Glib::RefPtr<Gtk::Builder> refBuilder = Gtk::Builder::create();
13     try {
14         refBuilder->add_from_file (GLADE_PATH+"editor.glade");
15     }
16     catch (const Glib::FileError &ex) {
17         std::cerr << "FileError: " << ex.what() << std::endl;
18         return 1;
19     }
20     catch (const Glib::MarkupError &ex) {
21         std::cerr << "MarkupError: " << ex.what() << std::endl;
22         return 1;
23     }
24     catch (const Gtk::BuilderError &ex) {
25         std::cerr << "BuilderError: " << ex.what() << std::endl;
26         return 1;
27     }
28
29     Editor *mainWindow = nullptr;
30     refBuilder->get_widget_derived("main_window", mainWindow);
31     if (mainWindow) {
32         mainWindow->set_title(EDITOR_WINDOW_NAME);
33         mainWindow->set_icon_from_file(ICON_PATH);
34         app->run(*mainWindow);
35         delete mainWindow;
36     }
37     return 0;
38 }

```

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Editor.cpp

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```

1
2  #include "Editor.h"
3
4  Editor::Editor(BaseObjectType *cobject,
5                const Glib::RefPtr<Gtk::Builder> &builder)
6      : Gtk::Window(cobject),
7        weps_list_controller(builder) {
8
9      maximize();
10     builder->get_widget("map_window", map_window);
11
12     std::shared_ptr<MapController> map_controller
13         (new MapController(map_model, builder));
14
15     builder->get_widget_derived("filebox", filebox);
16     std::shared_ptr<FileBoxController> filebox_controller(
17         new FileBoxController(weps_list_controller, map_controller, builder))
18     ;
19     filebox->bindController(filebox_controller);
20     show_all_children();
21 }

```

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Editor.h

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```

1
2 #ifndef WORMS_EDITOR_H
3 #define WORMS_EDITOR_H
4
5 #include <gtkmm/builder.h>
6 #include <gtkmm/window.h>
7 #include <gtkmm/scrolledwindow.h>
8 #include <gtkmm/spinbutton.h>
9 #include "MapView.h"
10 #include "ToolBoxView.h"
11 #include "UsablesController.h"
12 #include "FileBoxController.h"
13 #include "FileBoxView.h"
14
15
16 class Editor : public Gtk::Window {
17     Gtk::ScrolledWindow *map_window;
18     Map map_model;
19     UsablesController weps_list_controller;
20     FileBoxView *filebox;
21
22 public:
23     Editor(BaseObjectType *cobject, const Glib::RefPtr<Gtk::Builder> &builder);
24
25 };
26
27
28 #endif //WORMS_EDITOR_H

```

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FileReader.cpp

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```

1
2 #include "FileReader.h"
3
4 FileReader::FileReader(const std::string &filename)
5     : file(filename, std::fstream::in),
6       filename(filename) {}
7
8 void FileReader::read(std::vector<std::vector<double>> &worms,
9                     std::vector<std::vector<double>> &girders,
10                    std::vector<int> &weps_amm,
11                    unsigned int &worms_life, std::string& background) {
12     YAML::Node config = YAML::LoadFile(filename);
13
14     background = config[BACKGROUND_IMAGE].as<std::string>();
15
16     worms_life = config[WORMS_LIFE].as<unsigned int>();
17
18     std::map<std::string, int> ammo = config[WEAPON_AMMO].as<std::map<std::string,
19 g,
20     int>>();
21
22     weps_amm.push_back(ammo[BAZOOKA_NAME]);
23     weps_amm.push_back(ammo[MORTAR_NAME]);
24     weps_amm.push_back(ammo[GREEN_GRENADE_NAME]);
25     weps_amm.push_back(ammo[RED_GRENADE_NAME]);
26     weps_amm.push_back(ammo[BANANA_NAME]);
27     weps_amm.push_back(ammo[AIR_ATTACK_NAME]);
28     weps_amm.push_back(ammo[BAT_NAME]);
29     weps_amm.push_back(ammo[TELEPORT_NAME]);
30     weps_amm.push_back(ammo[DYNAMITE_NAME]);
31     weps_amm.push_back(ammo[HOLY_GRENADE_NAME]);
32
33     worms = config[WORMS_DATA].as<std::vector<std::vector<double>>>();
34
35     girders = config[GIRDERS_DATA].as<std::vector<std::vector<double>>>();
36 }

```


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FileReader.h

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```

1
2 #ifndef WORMS_FILEREADER_H
3 #define WORMS_FILEREADER_H
4
5 #include <fstream>
6 #include "MapObject.h"
7 #include <yaml.h>
8 #include <WeaponNames.h>
9 #include <ConfigFields.h>
10
11 class FileReader{
12 private:
13     std::fstream file;
14     std::string filename;
15 public:
16
17     explicit FileReader(const std::string &filename);
18
19
20     void read(std::vector<std::vector<double>> &worms,
21             std::vector<std::vector<double>> &girders,
22             std::vector<int> &weps_ammo,
23             unsigned int &worm_life, std::string& background);
24 };
25
26
27 #endif //WORMS_FILEREADER_H

```

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FileWriter.cpp

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```

1
2
3 #include "FileWriter.h"
4
5 FileWriter::FileWriter(const std::string &filename)
6     : file(filename, std::fstream::out | std::ios_base::trunc) {}
7
8
9 void FileWriter::save(std::vector<int> weapons,
10                     const std::vector<std::vector<double>> &worms,
11                     const std::vector<std::vector<double>> &girders,
12                     const unsigned int &worm_life, const std::string& backgrou
13 nd) {
14     YAML::Emitter out;
15
16     out << YAML::BeginMap;
17
18     out << YAML::Key << BACKGROUND_IMAGE;
19     out << YAML::Value << background;
20
21     out << YAML::Key << WORMS_LIFE;
22     out << YAML::Value << worm_life;
23
24     out << YAML::Key << WEAPON_AMMO;
25
26     out << YAML::Value << YAML::BeginMap;
27
28     out << YAML::Key << BAZOOKA_NAME;
29     out << YAML::Value << weapons[0];
30     out << YAML::Key << MORTAR_NAME;
31     out << YAML::Value << weapons[1];
32     out << YAML::Key << GREEN_GRENADE_NAME;
33     out << YAML::Value << weapons[2];
34     out << YAML::Key << RED_GRENADE_NAME;
35     out << YAML::Value << weapons[3];
36     out << YAML::Key << BANANA_NAME;
37     out << YAML::Value << weapons[4];
38     out << YAML::Key << HOLY_GRENADE_NAME;
39     out << YAML::Value << weapons[9];
40     out << YAML::Key << DYNAMITE_NAME;
41     out << YAML::Value << weapons[8];
42     out << YAML::Key << BAT_NAME;
43     out << YAML::Value << weapons[6];
44     out << YAML::Key << AIR_ATTACK_NAME;
45     out << YAML::Value << weapons[5];
46     out << YAML::Key << TELEPORT_NAME;
47     out << YAML::Value << weapons[7];
48
49     out << YAML::EndMap;
50
51     out << YAML::Key << WORMS_DATA;
52     out << worms;
53
54     out << YAML::Key << GIRDERS_DATA;
55     out << girders;
56
57     out << YAML::EndMap;
58
59     file << out.c_str();
60 }

```

Jun 02, 18 13:44

FileWriter.h

Page 1/1

```

1
2 #ifndef WORMS_FILEWRITER_H
3 #define WORMS_FILEWRITER_H
4
5 #include <fstream>
6 #include "MapObject.h"
7 #include <yaml.h>
8 #include <WeaponNames.h>
9 #include <ConfigFields.h>
10
11 class FileWriter{
12 private:
13     std::fstream file;
14 public:
15     explicit FileWriter(const std::string &filename);
16
17     void
18     save(std::vector<int> weapons,
19         const std::vector<std::vector<double>> &worms,
20         const std::vector<std::vector<double>> &girders,
21         const unsigned int &worm_life, const std::string& background);
22 };
23
24
25 #endif //WORMS_FILEWRITER_H

```

Jun 02, 18 18:24

InvalidMapError.cpp

Page 1/1

```

1
2 #include <gtkmm/enums.h>
3 #include <gtkmm/messagedialog.h>
4 #include "InvalidMapError.h"
5
6 InvalidMapError::InvalidMapError(const char *message) noexcept : message(message)
7 {
8 }
9
10 const char *InvalidMapError::what() const noexcept{
11     Gtk::Window dialog_window;
12     Gtk::MessageDialog dialog("Error al guardar archivo", false, Gtk::MESSAGE_WARNING);
13     dialog.set_transient_for(dialog_window);
14     dialog.set_secondary_text(message);
15     dialog.run();
16     return message;
17 }
18
19 InvalidMapError::~InvalidMapError() {
20 }

```

Jun 02, 18 13:44

InvalidMapError.h

Page 1/1

```

1
2 #ifndef WORMS_INVALIDMAP_H
3 #define WORMS_INVALIDMAP_H
4
5
6 #include <exception>
7
8 class InvalidMapError : public std::exception{
9 private:
10     const char* message;
11 public:
12     InvalidMapError(const char *message) noexcept;
13
14     virtual const char *what() const noexcept;
15
16     ~InvalidMapError() override;
17 };
18
19
20 #endif //WORMS_INVALIDMAP_H

```

Jun 05, 18 14:07

Map.cpp

Page 1/1

```

1
2 #include <yaml.h>
3 #include "Map.h"
4
5 void Map::erase(const int &index) {
6     if (!contained_objects.empty())
7         this->contained_objects.erase(contained_objects.begin() + index);
8 }
9
10 void Map::clean() {
11     this->contained_objects.clear();
12 }
13
14 void
15 Map::add(const unsigned int &id, const double &x, const double &y, const int &angle) {
16     MapObject new_object(x, y, angle);
17     contained_objects.emplace_back(std::make_pair(id, new_object));
18 }
19
20 void Map::move(const int &index, const double &x, const double &y) {
21     MapObject &object = contained_objects[index].second;
22     object.updatePosition(x, y);
23 }
24
25 const int Map::turn(const unsigned int &index, unsigned int &id, const int &rotation) {
26     MapObject &object = contained_objects[index].second;
27     id = contained_objects[index].first;
28     return object.turn(rotation);
29 }
30
31 const bool Map::isGirder(int &index) const {
32     return (contained_objects[index].first > 1);
33 }
34
35 void Map::getObjects(std::vector<std::vector<double>> &worms,
36                     std::vector<std::vector<double>> &girders) const {
37     for (auto &object : contained_objects) {
38         float x, y;
39         object.second.getPosition(x, y);
40         if (object.first == 1) {
41             std::vector<double> position;
42             position.push_back(x);
43             position.push_back(y);
44             worms.push_back(position);
45         } else {
46             std::vector<double> data;
47             data.push_back(object.first);
48             data.push_back(x);
49             data.push_back(y);
50             data.push_back(object.second.getAngle());
51             girders.push_back(data);
52         }
53     }
54 }
55
56 const int Map::getItemID(const int &index) const {
57     return contained_objects[index].first;
58 }
59
60
61

```

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Map.h

Page 1/1

```

1
2 #ifndef WORMS_MAPMODEL_H
3 #define WORMS_MAPMODEL_H
4
5
6 #include <utility>
7 #include <vector>
8 #include "MapObject.h"
9
10 class Map {
11     std::vector<std::pair<int, MapObject>> contained_objects;
12
13 public:
14     void erase(const int &index);
15
16     void clean();
17
18     void add(const unsigned int &id, const double &x, const double &y,
19             const int &angle = 0);
20
21
22     void getObjects(std::vector<std::vector<double>> &worms,
23                    std::vector<std::vector<double>> &girders) const;
24
25     void move(const int &index, const double &x, const double &y);
26
27     const bool isGirder(int &index) const;
28
29     const int getItemID(const int &index) const;
30
31     const int
32     turn(const unsigned int &index, unsigned int &id, const int &rotation);
33 };
34
35
36 #endif //WORMS_MAPMODEL_H

```

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MapObject.cpp

Page 1/1

```

1
2 #include <cstdlib>
3 #include "MapObject.h"
4
5 MapObject::MapObject(const float &x, const float &y, const int &angle) :
6     position(x,y), angle(angle) {}
7
8 void MapObject::updatePosition(const float &x, const float &y) {
9     position= Position(x,y);
10 }
11
12 int MapObject::turn(const int &rotation){
13     if (angle == 0)
14         angle = 180;
15     return angle = abs((angle+rotation)%180);
16 }
17
18 void MapObject::getPosition(float &x, float &y) const {
19     y=position.getY();
20     x=position.getX();
21 }
22
23 const int MapObject::getAngle() const {
24     return angle;
25 }
26
27

```

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MapObject.h

Page 1/1

```

1
2 #ifndef WORMS_OBJECTMODEL_H
3 #define WORMS_OBJECTMODEL_H
4
5 #include <Position.h>
6
7 class MapObject {
8     Position position;
9     int angle;
10 public:
11     MapObject(const float &x, const float &y, const int &angle = 0);
12
13     void updatePosition(const float &x, const float &y);
14
15     void getPosition(float &x, float &y) const;
16
17     const int getAngle() const;
18
19     int turn(const int &rotation);
20 };
21
22
23 #endif //WORMS_OBJECTMODEL_H

```

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Weapon.cpp

Page 1/1

```

1
2 #include "Weapon.h"
3
4 Weapon::Weapon(const int &default_amm0)
5     : default_amm0(default_amm0),
6       actual_amm0(default_amm0) {}
7
8 void Weapon::resetAmmo() {
9     actual_amm0 = default_amm0;
10 }
11
12 void Weapon::setAmmo(const int &new_amm0) {
13     this->actual_amm0 = new_amm0;
14 }
15
16 int Weapon::getAmmo() const {
17     return actual_amm0;
18 }

```

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Weapon.h

Page 1/1

```

1
2 #ifndef WORMS_WEAPONMODEL_H
3 #define WORMS_WEAPONMODEL_H
4
5 class Weapon {
6 private:
7     const int default_ammo;
8     int actual_ammo;
9 public:
10    explicit Weapon(const int &default_ammo);
11
12    void resetAmmo();
13
14    void setAmmo(const int &new_ammo);
15
16    int getAmmo() const;
17 };
18
19
20 #endif //WORMS_WEAPONMODEL_H

```

Jun 03, 18 12:56

FileBoxView.cpp

Page 1/1

```

1
2 #include "FileBoxView.h"
3
4 FileBoxView::FileBoxView(BaseObjectType *cobject,
5                          const Glib::RefPtr<Gtk::Builder> &builder)
6     : Gtk::Grid(cobject) {
7     builder->get_widget("btn_save", save);
8     builder->get_widget("btn_load", load);
9     builder->get_widget("btn_clean", new_map);
10 }
11
12 void FileBoxView::bindController(std::shared_ptr<FileBoxController> controller)
13 {
14     this->file_box_controller = std::move(controller);
15
16     save->signal_clicked().connect(
17         sigc::mem_fun(*file_box_controller,
18                       &FileBoxController::onSaveClicked));
19
20     load->signal_clicked().connect(
21         sigc::mem_fun(*file_box_controller,
22                       &FileBoxController::onLoadClicked));
23
24     new_map->signal_clicked().connect(
25         sigc::mem_fun(*file_box_controller,
26                       &FileBoxController::onNewClicked));
27 }

```

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FileBoxView.h

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```

1
2 #ifndef WORMS_FILEBOXVIEW_H
3 #define WORMS_FILEBOXVIEW_H
4
5 #include <gtkmm/builder.h>
6 #include <gtkmm/hvbox.h>
7 #include <gtkmm/button.h>
8 #include <gtkmm/grid.h>
9 #include "FileBoxController.h"
10
11 class FileBoxController;
12
13 class FileBoxView : public Gtk::Grid {
14 private:
15     Gtk::Button *save;
16     Gtk::Button *load;
17     Gtk::Button *new_map;
18     std::shared_ptr<FileBoxController> file_box_controller;
19 public:
20     FileBoxView(BaseObjectType *cobject,
21                 const Glib::RefPtr<Gtk::Builder> &builder);
22
23     void bindController(std::shared_ptr<FileBoxController> controller);
24 };
25
26
27 #endif //WORMS_FILEBOXVIEW_H

```

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LifeView.cpp

Page 1/1

```

1
2 #include "LifeView.h"
3
4 LifeView::LifeView(BaseObjectType *cobject,
5                    const Glib::RefPtr<Gtk::Builder> &builder)
6     : Gtk::SpinButton(cobject),
7       default_hp(this->get_value()) {
8 }
9
10 void LifeView::reset() {
11     this->set_value(default_hp);
12 }
13
14 void LifeView::update(const unsigned int &new_life) {
15     this->set_value(new_life);
16 }

```

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LifeView.h

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```

1
2 #ifndef WORMS_LIFEVIEW_H
3 #define WORMS_LIFEVIEW_H
4
5
6 #include <gtkmm/spinbutton.h>
7 #include <gtkmm/builder.h>
8
9 class LifeView : public Gtk::SpinButton {
10 private:
11     const unsigned int default_hp;
12 public:
13     LifeView(BaseObjectType *cobject,
14             const Glib::RefPtr<Gtk::Builder> &builder);
15
16     void reset();
17
18     void update(const unsigned int &new_life);
19 };
20
21
22 #endif //WORMS_LIFEVIEW_H

```

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MapView.cpp

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```

1
2 #include <Path.h>
3 #include <gtkmm/adjustment.h>
4 #include <gtkmm/scrolledwindow.h>
5 #include <glibmm/main.h>
6 #include "MapView.h"
7 #include "GirderSize.h"
8
9 #define BACKGROUND_QUANTITY 8
10
11 MapView::MapView(BaseObjectType *cobject,
12                 const Glib::RefPtr<Gtk::Builder> &builder)
13     : Gtk::Layout(cobject),
14     scroll_handler(*(Gtk::ScrolledWindow*)this->get_parent()), actual_back
ground_index(0) {
15
16     add_events(Gdk::BUTTON_PRESS_MASK);
17     signal_button_press_event().connect(
18         sigc::mem_fun(*this, &MapView::onButtonClicked));
19
20     setInitialPosition();
21     initializeBackground();
22     initializeWormsImages();
23     initializeGirderImages();
24 }
25
26 bool MapView::onButtonClicked(GdkEventButton *button_event) {
27     controller->mapClickedSignal(button_event);
28     return true;
29 }
30
31 void MapView::setInitialPosition() {
32     guint width, height;
33     get_size(width, height);
34     ((Gtk::ScrolledWindow*) get_parent())->get_hadjustment()->set_value(width /
35     2);
36     ((Gtk::ScrolledWindow*) get_parent())->get_vadjustment()->set_value(height);
37 }
38
39 void MapView::initializeBackground() {
40     for (size_t i = 0; i < BACKGROUND_QUANTITY; i++){
41         bg_paths.emplace_back(BACKGROUND_PATH + "background" + std::to_string(i) +
42         ".jpg");
43     }
44     setBackground(bg_paths[actual_background_index]);
45 }
46
47 void MapView::initializeGirderImages() {
48     std::vector<std::string> girder_3_imgs;
49     std::vector<std::string> girder_6_imgs;
50
51     for (int i = 0; i < 180; i = i + 10) {
52         girder_3_imgs.emplace_back(
53             GIRDER_PATH + "3_" + std::to_string(i) +
54             ".png");
55         girder_6_imgs.push_back(
56             GIRDER_PATH + "6_" + std::to_string(i) +
57             ".png");
58     }
59     objects_pallette.push_back(girder_3_imgs);
60     objects_pallette.push_back(girder_6_imgs);
61 }
62
63 void MapView::initializeWormsImages() {
64     std::vector<std::string> worms_imgs;
65     worms_imgs.emplace_back(IMAGES_PATH + "/right_worm.png");
66 }

```


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MapView.cpp

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```

64     objects_pallette.push_back(worms_imgs);
65 }
66
67 void MapView::add(const unsigned int &id, const double &x, const double &y,
68                 const int &angle) {
69     Gtk::Image new_image(objects_pallette[id - id / 2 - 1][0]);
70     const Glib::RefPtr<Gdk::Pixbuf> &img = new_image.get_pixbuf();
71     int width = img->get_width();
72     int height = img->get_height();
73     double x_bound = x - width / 2;
74     double y_bound = y - height / 2;
75
76     put(new_image, x_bound, y_bound);
77     new_image.show();
78     contained_objects.push_back(std::move(new_image));
79     if (angle > 0) {
80         sigc::slot<bool> my_slot = sigc::bind(sigc::mem_fun(*this, &MapView::turn), id, angle, contained_objects.size() - 1);
81         Glib::signal_idle().connect(my_slot);
82     }
83 }
84
85 void MapView::move(const int &index, const double &x, const double &y) {
86     if (!contained_objects.empty()) {
87         Gtk::Image &actual_object = contained_objects[index];
88         Gtk::Layout::move(actual_object, x - actual_object.get_width() / 2,
89                          y - actual_object.get_height() / 2);
90         actual_object.show();
91     }
92 }
93
94 bool MapView::turn(const unsigned int &id, const int &angle, const int &index) {
95     if (!contained_objects.empty()) {
96         Gtk::Image &image = contained_objects[index];
97         float x = child_property_x(image) + image.get_width() / 2;
98         float y = child_property_y(image) + image.get_height() / 2;
99         image.set(objects_pallette[id - id / 2 - 1][angle / 10]);
100
101         int height = GirderSize::getGirderHeightPixels(id, angle);
102         int width = GirderSize::getGirderWidthPixels(id, angle);
103         Gtk::Layout::move(image, x - width / 2, y - height / 2);
104     }
105     return false;
106 }
107
108 void MapView::erase(const int &index) {
109     if (!contained_objects.empty()) {
110         contained_objects[index].hide();
111         contained_objects.erase(contained_objects.begin() + index);
112     }
113 }
114
115 void MapView::clean() {
116     contained_objects.clear();
117 }
118
119 void MapView::bindController(MapController *map_controller) {
120     this->controller = map_controller;
121 }
122
123 void MapView::changeBackground() {
124     background.clear();
125     actual_background_index = (actual_background_index + 1) % bg_paths.size();
126     setBackground(bg_paths[actual_background_index]);
127 }
128

```

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MapView.cpp

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```

129 void MapView::setBackground(const std::string &name) {
130     Gtk::Image bg(name);
131     int img_width = bg.get_pixbuf()->get_width();
132     int img_height = bg.get_pixbuf()->get_height();
133     guint window_width, window_height;
134     this->get_size(window_width, window_height);
135     for (size_t x = 0; x < window_width; x += img_width) {
136         for (size_t y = 0; y < window_height; y += img_height) {
137             Gtk::Image image(name);
138             image.show();
139             put(image, x, y);
140             background.push_back(std::move(image));
141         }
142     }
143     redrawMap();
144 }
145
146 void MapView::redrawMap() {
147     for(Gtk::Image &object : contained_objects){
148         const Gtk::Allocation &alloc = object.get_allocation();
149         remove(object);
150         put(object, alloc.get_x(), alloc.get_y());
151     }
152     this->water.show(*this);
153 }
154
155 int MapView::select(const double &x, const double &y) {
156     Gdk::Rectangle new_object(x, y, 1, 1);
157     for (ssize_t i = contained_objects.size() - 1; i >= 0; i--) {
158         bool collision = contained_objects[i].intersect(new_object);
159         if (collision) {
160             return i;
161         }
162     }
163     return -1;
164 }
165
166 const std::string MapView::getBackgroundName() const {
167     return "background"+std::to_string(actual_background_index)+".jpg";
168 }
169
170 void MapView::loadBackground(const std::string &name) {
171     background.clear();
172     setBackground(BACKGROUND_PATH+name);
173     const char &number = *(name.end() - 5);
174     actual_background_index=atoi(&number);
175 }
176

```

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MapView.h

Page 1/1

```

1
2 #ifndef WORMS_MAP_H
3 #define WORMS_MAP_H
4
5 #include <gtkmm/builder.h>
6 #include <gtkmm/layout.h>
7 #include <gtkmm/image.h>
8 #include "MapController.h"
9 #include "Water.h"
10 #include "ScrollHandler.h"
11
12 class MapController;
13
14 class MapView : public Gtk::Layout {
15 private:
16     std::vector<Gtk::Image> contained_objects;
17     std::vector<std::vector<std::string>> objects_pallette;
18     MapController *controller;
19     std::vector<std::string> bg_paths;
20     std::vector<Gtk::Image> background;
21     Water water;
22     ScrollHandler scroll_handler;
23
24     int actual_background_index;
25
26     void initializeWormsImages();
27
28     void initializeGirderImages();
29
30     void setBackground(const std::string &name);
31
32     void initializeBackground();
33
34     void setInitialPosition();
35
36     void redrawMap();
37
38 public:
39     MapView(BaseObjectType *cobject, const Glib::RefPtr<Gtk::Builder> &builder);
40
41     bool onButtonClicked(GdkEventButton *button_event);
42
43     void erase(const int &index);
44
45     void clean();
46
47     void bindController(MapController *map_controller);
48
49     void add(const unsigned int &id, const double &x, const double &y,
50             const int &angle = 0);
51
52     bool turn(const unsigned int &id, const int &angle, const int &index);
53
54     void changeBackground();
55
56     int select(const double &x, const double &y);
57
58     void move(const int &index, const double &x, const double &y);
59
60     const std::string getBackgroundName() const;
61
62     void loadBackground(const std::string &name);
63
64 };
65
66 #endif //WORMS_MAP_H

```

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ToolBoxView.cpp

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```

1
2 #include <gtkmm/builder.h>
3 #include <Path.h>
4 #include "ToolBoxView.h"
5
6 ToolBoxView::ToolBoxView(BaseObjectType *cobject,
7                           const Glib::RefPtr<Gtk::Builder> &builder)
8     : Gtk::Grid(cobject) {
9     processing=false;
10
11     builder->get_widget("btn_worm", worm);
12     worm->set_active(true);
13     builder->get_widget("btn_grd", girder_3m);
14     builder->get_widget("btn_grd6", girder_6m);
15
16     builder->get_widget("btn_move", move);
17     builder->get_widget("btn_undo", erase);
18     builder->get_widget("btn_turn_ccw", turnccw);
19     builder->get_widget("btn_turn_cw", turncw);
20     builder->get_widget("btn_bg", change_bg);
21     builder->get_widget("btn_mode", mode);
22     builder->get_widget("img_selected", selected);
23
24     worm->signal_clicked().connect(sigc::bind<int>
25                                   (sigc::mem_fun(*this, &ToolBoxView::onNewObjectClicked),
26                                   WORM_BUTTON_ID));
27     girder_3m->signal_clicked().connect(sigc::bind<int>
28                                       (sigc::mem_fun(*this, &ToolBoxView::onNewObjectClicked),
29                                       GIRDER_3_BUTTON_ID));
29
30     girder_6m->signal_clicked().connect(sigc::bind<int>
31                                       (sigc::mem_fun(*this, &ToolBoxView::onNewObjectClicked),
32                                       GIRDER_6_BUTTON_ID));
33 }
34
35 void ToolBoxView::bindController(MapController *controller) {
36     this->map_controller = controller;
37
38     erase->signal_clicked().connect(
39         sigc::mem_fun(*map_controller, &MapController::eraseSignal));
40
41     move->signal_clicked().connect(
42         sigc::mem_fun(*map_controller, &MapController::moveSignal));
43
44     turnccw->signal_clicked().connect(
45         sigc::mem_fun(*map_controller, &MapController::turnCCWSignal));
46
47     turncw->signal_clicked().connect(
48         sigc::mem_fun(*map_controller, &MapController::turnCWSignal));
49
50     change_bg->signal_clicked().connect(
51         sigc::mem_fun(*map_controller,
52                       &MapController::changeBackgroundSignal));
53
54     mode->signal_toggled().connect(
55         sigc::mem_fun(*this, &ToolBoxView::changeMode));
56 }
57
58 void ToolBoxView::onNewObjectClicked(unsigned id) {
59     if (!processing) {
60         processing=true;
61         if (id == WORM_BUTTON_ID) {
62             if (worm->get_active()) {
63                 girder_3m->set_active(false);
64                 girder_6m->set_active(false);
65             }
66         }

```

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ToolBoxView.cpp

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```

67     } else if (id == GIRDER_3_BUTTON_ID) {
68         if (girder_3m->get_active()) {
69             worm->set_active(false);
70             girder_6m->set_active(false);
71         }
72     } else {
73         girder_3m->set_active(false);
74         worm->set_active(false);
75     }
76     disableMovingItems();
77     mode->set_active(false);
78     map_controller->addModeSignal(id);
79     leaveConsistent();
80     processing=false;
81 }
82 }
83
84 void ToolBoxView::enableMovingItems() {
85     turncw->set_sensitive(true);
86     turnccw->set_sensitive(true);
87     move->set_sensitive(true);
88     erase->set_sensitive(true);
89 }
90
91 void ToolBoxView::disableMovingItems() {
92     turncw->set_sensitive(false);
93     turnccw->set_sensitive(false);
94     move->set_sensitive(false);
95     erase->set_sensitive(false);
96 }
97
98 void ToolBoxView::changeMode() {
99     worm->set_sensitive(!mode->get_active());
100     girder_3m->set_sensitive(!mode->get_active());
101     girder_6m->set_sensitive(!mode->get_active());
102     if(!mode->get_active()){
103         disableMovingItems();
104     }
105     map_controller->changeModeSignal();
106 }
107 }
108
109 void ToolBoxView::leaveConsistent() {
110     if (!worm->get_active() && !girder_6m->get_active() && !girder_3m->get_active()){
111         processing=true;
112         worm->set_active(true);
113         map_controller->addModeSignal(WORM_BUTTON_ID);
114     }
115 }
116
117 void ToolBoxView::showSelected(int id) {
118     switch (id){
119         case WORM_BUTTON_ID:
120             selected->set (IMAGES_PATH+"/right_worm.png");
121             selected->show();
122             break;
123         case GIRDER_3_BUTTON_ID:
124             selected->set (IMAGES_PATH+"Girder/girder_3_selected.png");
125             selected->show();
126             break;
127         case GIRDER_6_BUTTON_ID:
128             selected->set (IMAGES_PATH+"Girder/girder_6_selected.png");
129             selected->show();
130             break;
131         default:

```

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ToolBoxView.cpp

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```

132         hideSelected();
133         break;
134     }
135 }
136
137 void ToolBoxView::hideSelected() {
138     selected->hide();
139 }
140
141 void ToolBoxView::closeSelectionMode() {
142     disableMovingItems();
143     hideSelected();
144     mode->set_active(false);
145 }
146

```

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ToolBoxView.h

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```

1
2 #ifndef WORMS_TOOLBOX_H
3 #define WORMS_TOOLBOX_H
4
5 #include <gtkmm/grid.h>
6 #include <gtkmm/button.h>
7 #include <gtkmm/layout.h>
8 #include <gtkmm/togglebutton.h>
9 #include <gtkmm/switch.h>
10 #include <gtkmm/hvbox.h>
11 #include "MapView.h"
12 #include "MapController.h"
13
14 #define WORM_BUTTON_ID 1
15 #define GIRDER_3_BUTTON_ID 3
16 #define GIRDER_6_BUTTON_ID 6
17
18 class MapController;
19
20 class ToolBoxView : public Gtk::Grid {
21 private:
22     Gtk::Button *erase;
23     MapController *map_controller;
24     Gtk::ToggleButton *worm;
25     Gtk::ToggleButton *girder_3m;
26     Gtk::ToggleButton *girder_6m;
27     Gtk::Button *move;
28
29     Gtk::Button *turnccw;
30     Gtk::Button *turncw;
31     Gtk::Button *change_bg;
32     Gtk::ToggleButton *mode;
33     Gtk::Image* selected;
34     bool processing;
35
36     void leaveConsistent();
37
38 public:
39     ToolBoxView(BaseObjectType *cobject,
40                 const Glib::RefPtr<Gtk::Builder> &builder);
41
42     void onNewObjectClicked(unsigned int id);
43
44     void enableMovingItems();
45
46     void disableMovingItems();
47
48     void bindController(MapController *controller);
49
50     void changeMode();
51
52     void showSelected(int id);
53
54     void hideSelected();
55
56     void closeSelectionMode();
57 };
58
59
60 #endif //WORMS_TOOLBOX_H

```

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WeaponView.cpp

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```

1 #include "WeaponView.h"
2
3 WeaponView::WeaponView(const Glib::RefPtr<Gtk::Builder> &builder,
4                         const unsigned int &id) {
5     builder->get_widget("sc_wep" + std::to_string(id), ammo_selector);
6     builder->get_widget("cb_wep" + std::to_string(id), infinite);
7
8     default_checkbox_state = infinite->get_active();
9     default_ammo_selector_value = ammo_selector->get_value();
10
11     ammo_selector->set_sensitive(!default_checkbox_state);
12
13     ammo_selector->signal_value_changed().connect(
14         sigc::mem_fun(*this, &WeaponView::onAmmoValueChanged));
15
16     infinite->signal_clicked().connect(
17         sigc::mem_fun(*this, &WeaponView::onCheckboxClicked));
18 }
19
20 void WeaponView::onAmmoValueChanged() {
21     controller->updateAmmo(ammo_selector->get_value());
22 }
23
24 void WeaponView::onCheckboxClicked() {
25     ammo_selector->set_sensitive(!infinite->get_active());
26     if (infinite->get_active()) {
27         controller->updateAmmo(-1);
28     } else
29         controller->updateAmmo(ammo_selector->get_value());
30 }
31
32 void WeaponView::resetAmmo() {
33     ammo_selector->set_sensitive(!default_checkbox_state);
34     ammo_selector->set_value(default_ammo_selector_value);
35     infinite->set_active(default_checkbox_state);
36 }
37
38 void WeaponView::bindController(WeaponController *controller) {
39     this->controller = controller;
40 }
41
42 const int WeaponView::getInitialAmmo() {
43     return default_checkbox_state ? -1 : default_ammo_selector_value;
44 }
45
46 void WeaponView::setAmmo(const int &ammo) {
47     if (ammo < 0) {
48         infinite->set_active(true);
49         ammo_selector->set_sensitive(false);
50     } else {
51         infinite->set_active(false);
52         ammo_selector->set_sensitive(true);
53         ammo_selector->set_value(ammo);
54     }
55 }
56 }

```

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WeaponView.h

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```
1
2 #ifndef WORMS_WEP_H
3 #define WORMS_WEP_H
4
5
6 #include <gtkmm/hvbox.h>
7 #include <gtkmm/scale.h>
8 #include <gtkmm/checkbutton.h>
9 #include <gtkmm/builder.h>
10 #include "WeaponController.h"
11
12 class WeaponController;
13
14 class WeaponView {
15     Gtk::Scale *ammo_selector;
16     Gtk::CheckButton *infinite;
17     bool default_checkbox_state;
18     int default_ammo_selector_value;
19     WeaponController *controller;
20 public:
21     WeaponView(const Glib::RefPtr<Gtk::Builder> &builder,
22               const unsigned int &id);
23
24     void onAmmoValueChanged();
25
26     void onCheckboxClicked();
27
28     void resetAmmo();
29
30     void bindController(WeaponController *controller);
31
32     const int getInitialAmmo();
33
34     void setAmmo(const int &ammo);
35 };
36
37
38 #endif //WORMS_WEP_H
```

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