**GuiController**

**public class GUIController {**

**//Creates the GUIs for the PTS**

**private MainGUI main;**

**private AddCustomerGUI addCust;**

**private ViewCustomerGUI viewCust;**

**private NewScriptGUI newScript;**

**private SearchCustGUI searchCust;**

**private ScriptHistoryGUI scriptHistory;**

**private InventoryGUI inventory;**

**//The following booleans are the toggles for displaying and running of the guis**

**private boolean refillRun = false;**

**private boolean invRun = false;**

**private boolean run = true;**

**private boolean addRun = false;**

**private boolean viewRun = false;**

**private boolean mainRun = true;**

**private boolean newScriptRun = false;**

**private boolean searchCustRun = false;**

**private boolean scriptHistoryRun = false;**

**//Creates the needed plural variables for the program: Customers, Prescriptions, and Medications**

**private Customers customers;**

**private Prescriptions prescriptions;**

**private Medications medications;**

**public GUIController() {**

**main = new MainGUI(this);**

**addCust = new AddCustomerGUI(this);**

**viewCust = new ViewCustomerGUI(this);**

**searchCust = new SearchCustGUI(this);**

**scriptHistory = new ScriptHistoryGUI(this);**

**inventory = new InventoryGUI(this);**

**}**

**public GUIController(Customers c, Prescriptions p, Medications m) {**

**this();**

**customers = c;**

**prescriptions = p;**

**medications = m;**

**newScript = new NewScriptGUI(this);**

**updatePrescriptionHistory();**

**}**

**//The updatePrescriptionHistory updates each customer's prescription**

**private void updatePrescriptionHistory() {**

**for (int i = 0; i < customers.size(); i++) {**

**for (int k = 0; k < prescriptions.size(); k++) {**

**if (customers.getCustomerId(i).equals(**

**prescriptions.getCustomerId(k))) {**

**customers.getCustomer(i).setPrescriptionHistoryList(**

**prescriptions.getPrescription(k));**

**}**

**}**

**}**

**}**

**public boolean getRun() {**

**return run;**

**}**

**public void setRun(boolean r) {**

**run = r;**

**}**

**public Customers getCustomers() {**

**return customers;**

**}**

**public Prescriptions getPrescriptions() {**

**return prescriptions;**

**}**

**//adds a Customer to the Customers list**

**public void addCustomers(String id, String ln, String fn, String phone,**

**String dob, String ins, String policy) {**

**customers.add(id, ln, fn, phone, dob, ins, policy);**

**}**

**//Adds a Script to the list of Prescriptions**

**public void addPrescriptions(String prescriptionId, String customerId,**

**String medicationName, String physicianName, String physicianPhone,**

**String dateOfIssue, String expirationDate, int numberRefills,**

**int unitsPerRefill, Boolean generic) {**

**prescriptions.add(prescriptionId, customerId, medicationName,**

**physicianName, physicianPhone, dateOfIssue, expirationDate,**

**numberRefills, unitsPerRefill, generic);**

**System.out.println(prescriptions.toString());**

**}**

**//The saveCustomers() method calls the save function for the customers at one time to allow for safe usage**

**public void saveCustomers() {**

**customers.save();**

**}**

**public boolean getNewScriptRun() {**

**return newScriptRun;**

**}**

**public void setNewScriptRun(boolean r) {**

**newScriptRun = r;**

**if (r == false) {**

**newScript.setVisible(false);**

**}**

**}**

**public boolean getInvRun() {**

**return invRun;**

**}**

**public void setInvRun(boolean r) {**

**invRun = r;**

**if (r == false) {**

**inventory.setVisible(false);**

**}**

**}**

**public boolean getRefillRun() {**

**return refillRun;**

**}**

**public boolean getSearchCustRun() {**

**return newScriptRun;**

**}**

**public void setSearchCustRun(boolean r) {**

**searchCustRun = r;**

**if (r == false) {**

**searchCust.setVisible(false);**

**}**

**}**

**public boolean getMainRun() {**

**return mainRun;**

**}**

**public void setMainRun(boolean r) {**

**mainRun = r;**

**if (r == false) {**

**main.setVisible(false);**

**}**

**}**

**public boolean getAddRun() {**

**return addRun;**

**}**

**public void setAddRun(boolean r) {**

**addRun = r;**

**if (r == false) {**

**addCust.setVisible(false);**

**}**

**}**

**public boolean getViewRun() {**

**return viewRun;**

**}**

**public void setViewRun(boolean r) {**

**viewRun = r;**

**if (r == false) {**

**viewCust.setVisible(false);**

**}**

**}**

**//setScriptOwner() gives the newScript GUI the proper customer of a script**

**public void setScriptOwner(Customer c) {**

**newScript.scriptOwner(c);**

**}**

**public void setViewRun(boolean r, Customer c) {**

**viewRun = r;**

**viewCust.display(c);**

**if (r == false) {**

**viewCust.setVisible(false);**

**}**

**}**

**public boolean getHistoryRun() {**

**return newScriptRun;**

**}**

**public void setHistoryRun(boolean r) {**

**scriptHistoryRun = r;**

**if (r == false) {**

**scriptHistory.setVisible(false);**

**}**

**}**

**public void setHistoryDisplay(Customer c) {**

**Customer cust = c;**

**scriptHistory.displayHistory(cust);**

**}**

**public Medications getMedications() {**

**return medications;**

**}**

**//run() is called at start and calls a second method, run can be scaled**

**public void run() {**

**checkVisibility();**

**}**

**//the checkVisibility() method is just a large if-else statement that checks which**

**//GUI is active**

**public void checkVisibility() {**

**if (searchCustRun == true) {**

**searchCust.setVisible(true);**

**}**

**else if (viewRun == true) {**

**viewCust.setVisible(true);**

**} else if (addRun == true) {**

**addCust.setVisible(true);**

**} else if (mainRun == true) {**

**main.setVisible(true);**

**} else if (newScriptRun == true) {**

**newScript.setVisible(true);**

**} else if (scriptHistoryRun == true) {**

**scriptHistory.setVisible(true);**

**} else if (invRun == true) {**

**inventory.setVisible(true);**

**}**

**}**

**}**