

Business Enterprise Rules

Event	
[Abstract or Interface or Normal]	[Enter Super Class Here]
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Stores the name, description, and times of an event.Has methods to edit the events and the event times.	Collaborators <ul style="list-style-type: none">Schedule

Schedule	
Normal	[Enter Super Class Here]
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Has a list of events.Be add and remove events.Tracks both day and hour for the time of an event.	Collaborators <ul style="list-style-type: none">TaskTrackerEvent

Medicine	
Normal	[Enter Super Class Here]
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Store the name, expiration date, amount, type, method of administration and extra instructions.Stores an integer ID for the medicine.Stores the alternate names of the medicine.Tracks whether the medicine is expired or not.Stores which medicine this specific medicine was prescribed with.Stores a Medicine schedule for this specific medicine.Getters and Setters for all the above variables.	Collaborators <ul style="list-style-type: none">PrescriptionMedicineSchedule

MedicineSchedule	
Normal	Schedule
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Stores the name of a medicine and ID of the medicine.Stores the number of times to take a medicine per day.Stores the times to take a medicine.Done by Event	Collaborators <ul style="list-style-type: none">Medicine

User	
[Abstract or Interface or Normal]	[Enter Super Class Here]
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Stores username and name of the user as private attributes.Stores a list of all the medicine they have.Stores instances of Medicine.Getters and Setters for these values.Capable of adding and removing instances of medicine.	Collaborators <ul style="list-style-type: none">UserManagerMedicine

Application Business Rules

UserManager	
[Abstract or Interface or Normal]	[Super Class]
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Allows one to edit information in the User class.Stores an instance of User.Allows one to manage the medicine for a specific user.Stores an instance of MedicineManager.Calls user to find specific medicine to pass into MedicineManager to edit.addNewUser:<ul style="list-style-type: none">Creates a new User instance with username and name.Stores this User instance as an attribute.Returns the User instance.Allows one to add medication by calling MedicineManager.	Collaborators <ul style="list-style-type: none">UserManagementSystem

MedicineManager	
[Abstract or Interface or Normal]	[Enter Super Class Here]
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Allow access and retrieval of information from Medicine.addNewMedicine:<ul style="list-style-type: none">Creates a new instance of Medicine and returns it.Allows one to edit a Medicine ObjectReturns an instance of Medicine.Has a method for each set of Medicine.	Collaborators <ul style="list-style-type: none">MedicinePrescriptionMedicineSchedule

ScheduleManager	
Normal	[Enter Super Class Here]
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Stores the schedule made from compiling all the other schedules. Each medicine has it's own MedicineSchedule. After compiling all of these schedules, we store the final, combined one in ScheduleManager.editSchedule: Allows one to edit individual Schedule objects and it's Events.compileSchedule: Uses ScheduleCompiler to compile a bunch of Schedule instances passed in as parameters.Returns the schedule.	Collaborators <ul style="list-style-type: none">Schedule

ScheduleCompiler	
[Abstract or Interface or Normal]	[Enter Super Class Here]
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Creates a schedule using the other schedules that were passed in as parameters. Returns this schedule.	Collaborators <ul style="list-style-type: none">Schedule

ManagementSystem	
Normal	[Enter Super Class Here]
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Stores a map of usernames to User instances.Manages interactions between interface adapters and application business logic.Stores instances of UserManager, ScheduleManager, AlertSystem.Takes in username from AppManager and finds the user entry for that specific user using the map. Set that User as the User in UserManager.addNewUser:<ul style="list-style-type: none">Calls UserManager addNewUser. Use the returned instance and add that to the map with the username.getNewUser:<ul style="list-style-type: none">Uses UserManager to return the user's name, username, and the list of medicine (names of the medicines) the user has.getNewSchedule:<ul style="list-style-type: none">Calls UserManager to get a list of Medicine.Calls ScheduleManager to get a final schedule and passes in the list of MedicineSchedule it got from the list of Medicine.Acts as an intermediary between UserManager, ScheduleManager and AppManager. Thus is responsible for retrieving and sending information between these two entities.	Collaborators <ul style="list-style-type: none">UserManagerScheduleManagerAlertSystemAppManager

Interface Adapters

Window	
Abstract Class	[Enter Super Class Here]
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Display information based on certain parameters.Get User Input.Stores an instance of Scanner object	Collaborators <ul style="list-style-type: none">AppManager

AppManager	
Normal	InputOutputManager
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Keeps track of all the usernames and passwordsAllow to add new usernames and passwords, as well as remove old usernames and passwords.If the account exists, the user is passed to ManagementSystem.Creates an instance of:<ul style="list-style-type: none">StartScreenWindowLoginWindowCreateAccountWindowTimeTableCreates an instance of ManagementSystem. Passes this instance as a parameter to ManagementSystem.Has a run method that runs the program.createNewAccount:<ul style="list-style-type: none">Calls CreateAccountWindow using the Window interface and displays optionsgets user input on their name, username and password.CreateAccountWindow returns what the user entered for their name, username and password.showAccountWindow:<ul style="list-style-type: none">Calls ManagementSystem to get the user's name, username, and list of medicine they have.Call ViewAccountWindow using the Window interface to show the user information.ViewAccountWindow returns user input.Based on user input, we can edit the medicines and medicine list, edit user information, view the time table and logout (not all are implemented in phase II)editMedicine:<ul style="list-style-type: none">Calls the AddMedicineWindow using the Window interfaceCalls ManagementSystem to edit the medicine.removeMedicine:<ul style="list-style-type: none">Calls the RemoveMedicineWindow using the Window interfaceCalls ManagementSystem to remove the new medicine.addMedicine:<ul style="list-style-type: none">Calls the AddMedicineWindow using the Window interfaceCalls ManagementSystem to add the new medicine for the user.getNewSchedule:<ul style="list-style-type: none">Calls ManagementSystem to get a Schedule.logout:<ul style="list-style-type: none">Allows users to logout and go back to login page.	Collaborators <ul style="list-style-type: none">ManagementSystem

Frameworks & Drivers

EditMedicineWindow	
Normal	Window
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Allows users to edit their medicine.	Collaborators <ul style="list-style-type: none">[Enter List Here]

CreateAccountWindow	
Normal	Window
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Show the options of entering a name, username and password.Returns the user input of their name, username and password.	Collaborators <ul style="list-style-type: none">[Enter List Here]

LoginWindow	
[Abstract or Interface or Normal]	Window
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Allows the user to enter their username and password to sign inTakes in user input	Collaborators <ul style="list-style-type: none">Membership

StartScreenWindow	
Normal	Window
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">showOptions:<ul style="list-style-type: none">The user has two options:<ul style="list-style-type: none">loginsignupGets an integer input for which option is picked. Return that input	Collaborators <ul style="list-style-type: none">LoginWindowMainMethodCreateAccountWindow

TimeTableWindow	
Normal	Window
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Displays a visual representation of the schedule.Returns an integer if the user wants to go back to ViewAccountWindow using the user input.	Collaborators <ul style="list-style-type: none">Schedule

AddMedicineWindow	
Normal	Window
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Allows users to add a new medicine by entering the name, the type, the method of administration and any extra instructions for the medicine.The user is able to add the times they need to take their medicine.	Collaborators <ul style="list-style-type: none">[Enter List Here]

RemoveMedicineWindow	
Normal	Window
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Allows users to remove old medicine	Collaborators <ul style="list-style-type: none">[Enter List Here]

ViewAccountWindow	
Normal	Window
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Shows the username, name, and a list of medication the user uses.Allows users to select whether they want to add new medicine, remove a medicine, edit their medication or look at their medication timetable.Obtains user input.Allows the user to log out.	Collaborators <ul style="list-style-type: none">[Enter List Here]

Main	
Normal	[Enter Super Class Here]
[Enter Subclass Here]	[Enter Subclass Here]
Responsibilities <ul style="list-style-type: none">Has the main method to run the program.Creates an instance of AppManager and instances of all the classes that implement Window and passes them into AppManager's run method.	Collaborators <ul style="list-style-type: none">Window and it's implementationsAppManager