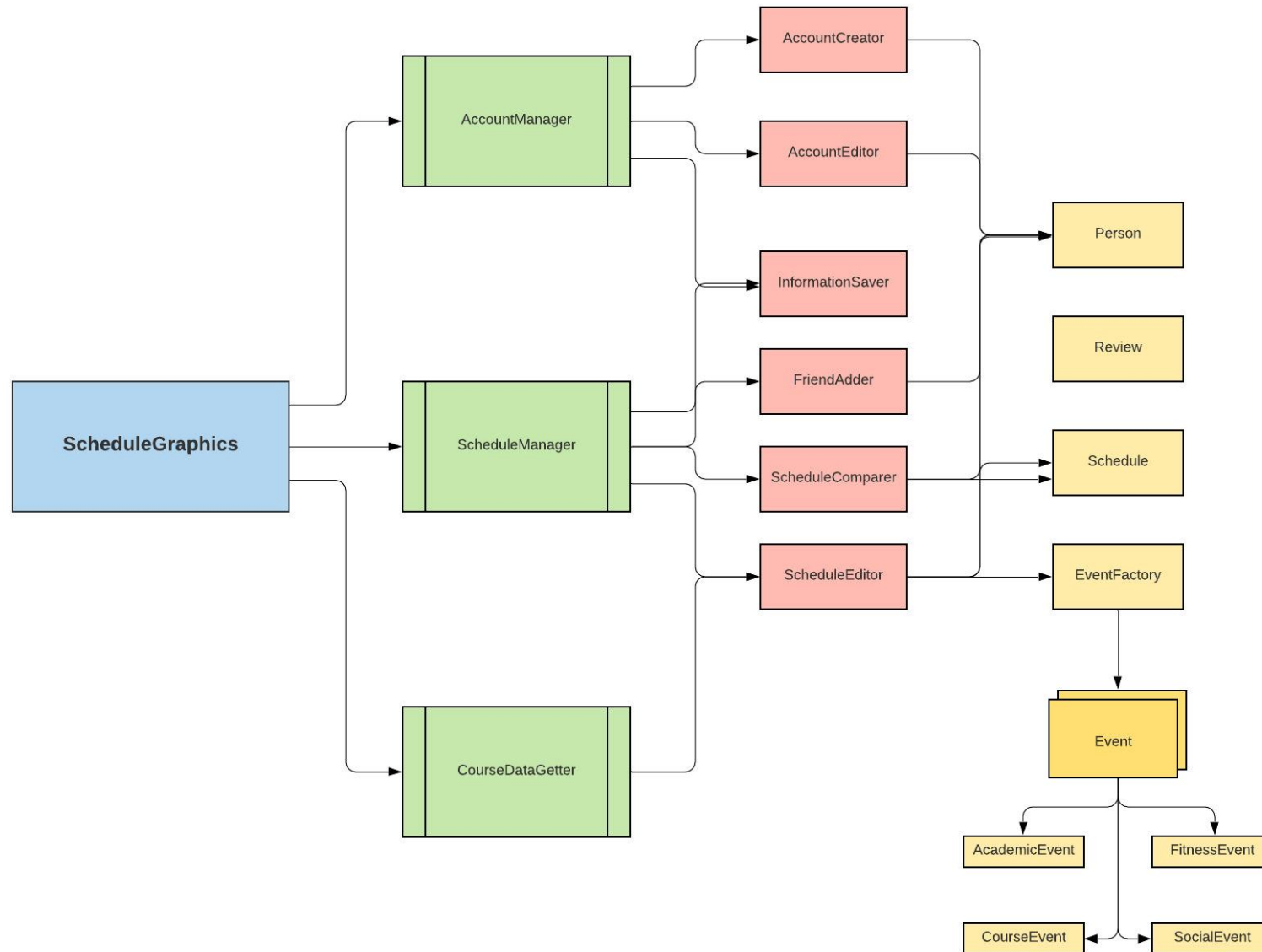# UML Diagram

CourseEvent	
A subclass that extends Event class Represents the course events that the user has Overrides the getter and setter abstract methods from Event	Event EventFactory

FitnessEvent	
A subclass that extends Event class Represents the ftiness events that the user has Overrides the getter and setter abstract methods from Event	Event EventFactory

AcademicEvent	
A subclass that extends Event class Represents the academic (non-course) events that the user has Overrides the getter and setter abstract methods from Event	Event EventFactory

SocialEvent	
A subclass that extends Event class Represents the social events that the user has Overrides the getter and setter abstract methods from Event	Event EventFactory

Entity Classes /
Enterprise Business Rules

Person	
●Stores userName, userPassword, userSchedule, userFriends, outgoingRequests, incomingRequests · ShareSchedule method: shares person's schedule with another person	Schedule ScheduleEditor ScheduleComparer

Schedule	
●Store Events that represent a user's weekly schedule ●getEvent: checks for an Event at a particular time ●toString: shows the times of events in this Schedule	Event

Event	
Abstract class and superclass of the different types of event classes Stores eventName, eventStartTime, eventEndTime, eventDay, eventType	ScheduleEditor CourseEvent AcademicEvent SocialEvent FitnessEvent

Review	
●store reviewLocation, reviewReview, reviewRating	Location

Entity Classes /
Enterprise Business Rules

EventFactory

● Gets inputs from ScheduleEditor to pass through conditionals to instantiate the different types of events

ScheduleEditor
Event
CourseEvent
AcademicEvent
FitnessEvent
SocialEvent

Entity Classes /
Enterprise Business Rules

ScheduleEditor

· AddEvent:
  · adds a given event to the
    schedule of the user also
    given from scheduleManager
· EditEvent:
  · Change event name, start
    time, or end time
· RemoveEvent:
  · remove a given event from
    the schedule
	ScheduleManager
	Schedule
	Event
	Person

InformationSaver

· Saves and updates user information when an account is created, or when instance variables of a user is updated · Retrieves user Information from the database	ScheduleManager AccountManager ScheduleEditor ScheduleComparer AccountCreator AccountEditor

Use Case Classes / Application Business Rules (more on next slide)

ScheduleComparer

· compareSchedule - this method
compares the events of the friend's
Schedule to this user's schedule
  · Access friend's schedules
    from Person entity
  · Check for mutual availability
    between two schedules
	ScheduleManager
	Person
	Schedule

FriendAdder

· AcceptFriendRequest:
  · Adds requestor and requested
    user to each others friend lists.
· SendFriendRequest:
  · this method sends a friend request
    from one person to another
	ScheduleManager
	Person

AccountCreator		**AccountEditor**	

• Creates a new account for a user (takes a new Person class and assigns password, username, and a "trusted question" to allow for password recovery)
    • Username must be unique, need both it and the trusted question to change password
	AccountManager
	Person
		• Used to change a user's password
		    • User must be able to enter their username and correctly answer their security question for account recovery
			AccountManager
			Person

Use Case Classes / Application Business Rules

CourseDataGetter

• Stores data gotten from the U of T timetable • Fetches data from the U of T timetable • Provides meeting times for lectures sections of a given course	ScheduleEditor

Controller / Interface Adapters

AccountManager

• Stores every user as well as their username, which can be retrieved from the database. • Calls on AccountCreator to create new accounts • Calls on AccountEditor for account recovery	AccountCreator AccountEditor InformationSaver

ScheduleManager

• Stores users and their associated schedules • Call on ScheduleComparer to compare two schedules associated with certain userIDs • Calls on ScheduleEditor to edit the user's schedule	ScheduleComparer ScheduleEditor CalendarPage InformationSaver

Interface / Frameworks & Drivers

ScheduleGraphics	
• Display user schedule on screen • Display options for the user to share schedule, add friends, and add / edit events	scheduleManager