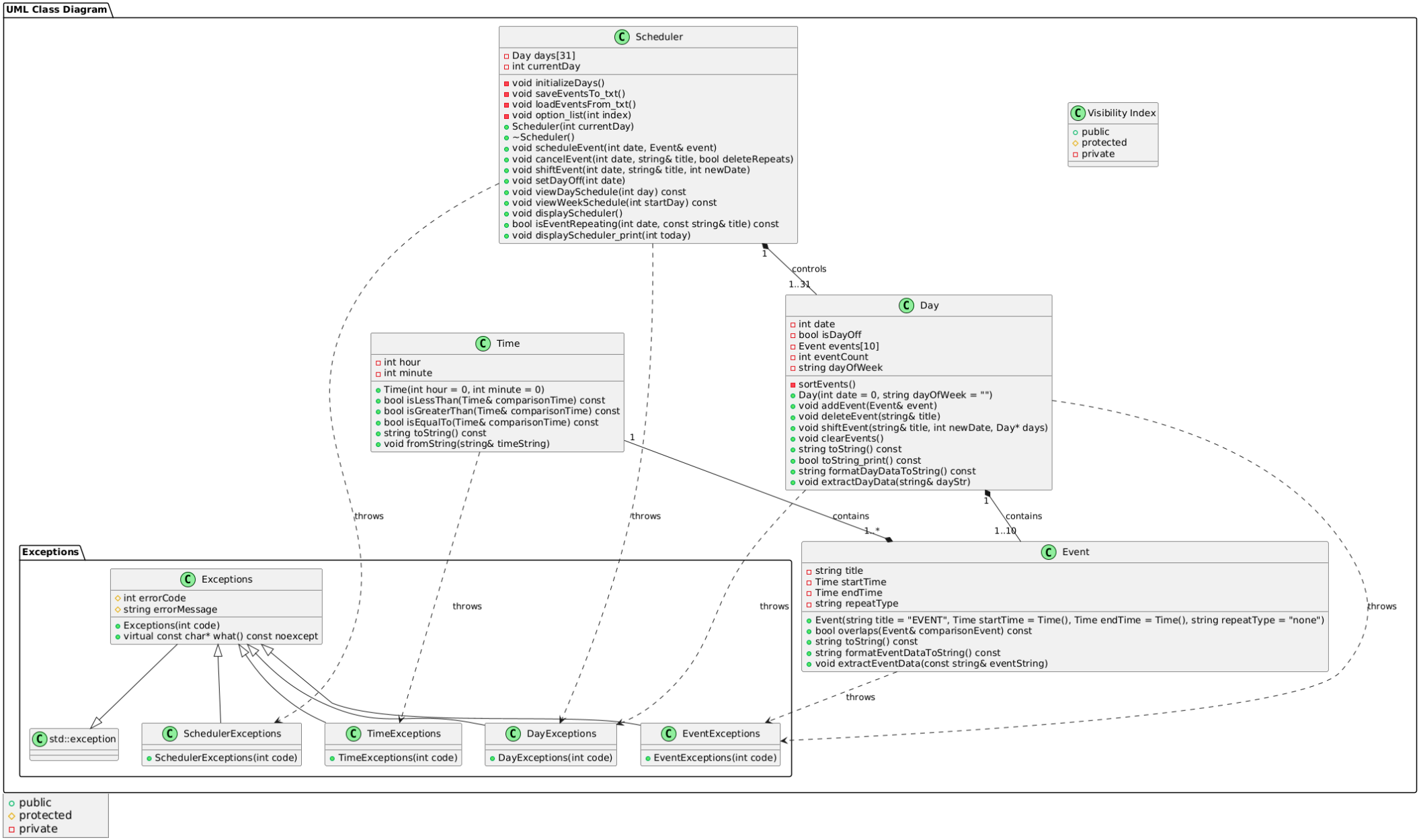
UML Class Diagram
Scheduler
Day days[31]
int currentDay
void initializeDays()
void saveEventsTo_txt()
void loadEventsFrom_txt()
void option_list(int index)
Scheduler(int currentDay)
~Scheduler()
void scheduleEvent(int date, Event& event)
void cancelEvent(int date, string& title, bool deleteRepeats)
void shiftEvent(int date, string& title, int newDate)
void setDayOff(int date)
void viewDaySchedule(int day) const
void viewWeekSchedule(int startDay) const
void displayScheduler()
bool isEventRepeating(int date, const string& title) const
void displayScheduler_print(int today)
Visibility Index
public
protected
private
1
controls
1..31
Day
int date
bool isDayOff
Event events[10]
int eventCount
string dayOfWeek
sortEvents()
Day(int date = 0, string dayOfWeek = "")
void addEvent(Event& event)
void deleteEvent(string& title)
void shiftEvent(string& title, int newDate, Day* days)
void clearEvents()
string toString() const
bool toString_print() const
string formatDayDataToString() const
void extractDayData(string& dayStr)
Time
int hour
int minute
Time(int hour = 0, int minute = 0)
bool isLessThan(Time& comparisonTime) const
bool isGreaterThan(Time& comparisonTime) const
bool isEqualTo(Time& comparisonTime) const
string toString() const
void fromString(string& timeString)
1
contains
1..*
1
contains
1..10
Event
string title
Time startTime
Time endTime
string repeatType
Event(string title = "EVENT", Time startTime = Time(), Time endTime = Time(), string repeatType = "none")
bool overlaps(Event& comparisonEvent) const
string toString() const
string formatEventDataToString() const
void extractEventData(const string& eventString)
throws
throws
throws
throws
throws
throws
Exceptions
Exceptions
int errorCode
string errorMessage
Exceptions(int code)
virtual const char* what() const noexcept
std::exception
SchedulerExceptions
SchedulerExceptions(int code)
TimeExceptions
TimeExceptions(int code)
DayExceptions
DayExceptions(int code)
EventExceptions
EventExceptions(int code)
public
protected
private