

TA-Tracker

The *Class Diagram* below shows how the **UI** components interact with each other.

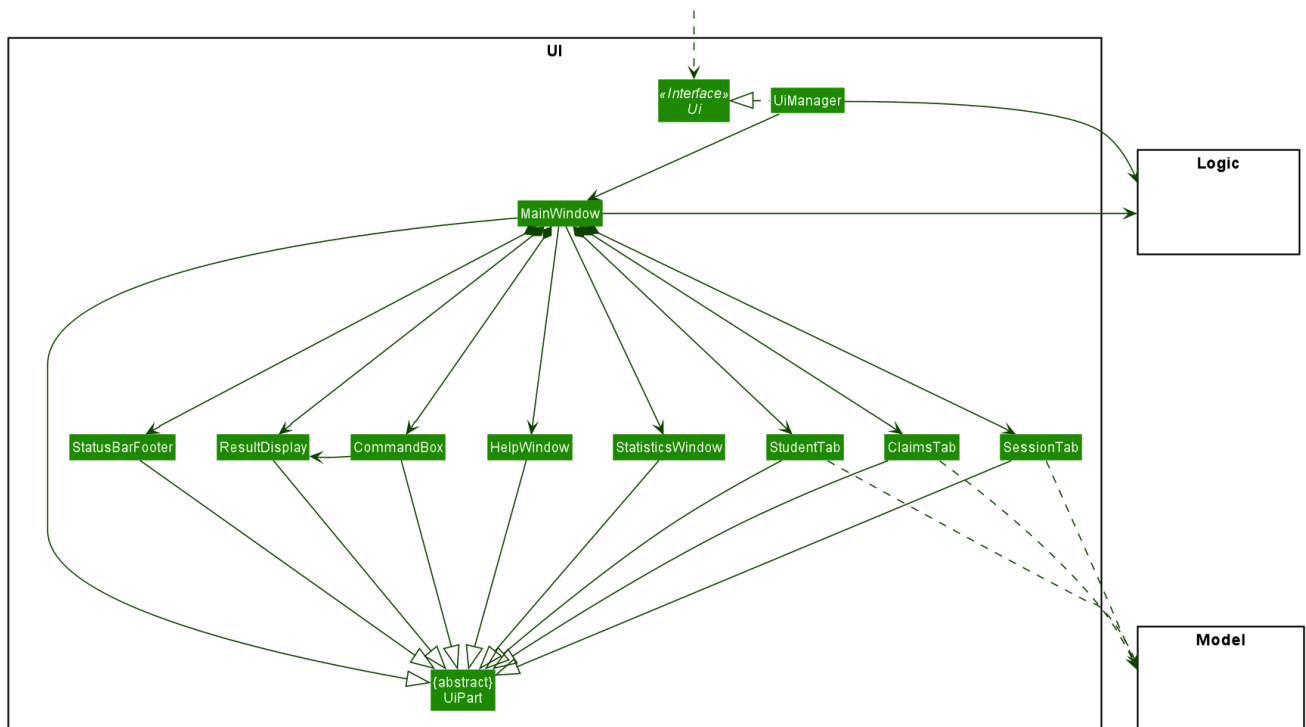


Figure 1. Structure of the UI Component

The *Class Diagram* below shows how the components in the **Student Tab** interact with each other.

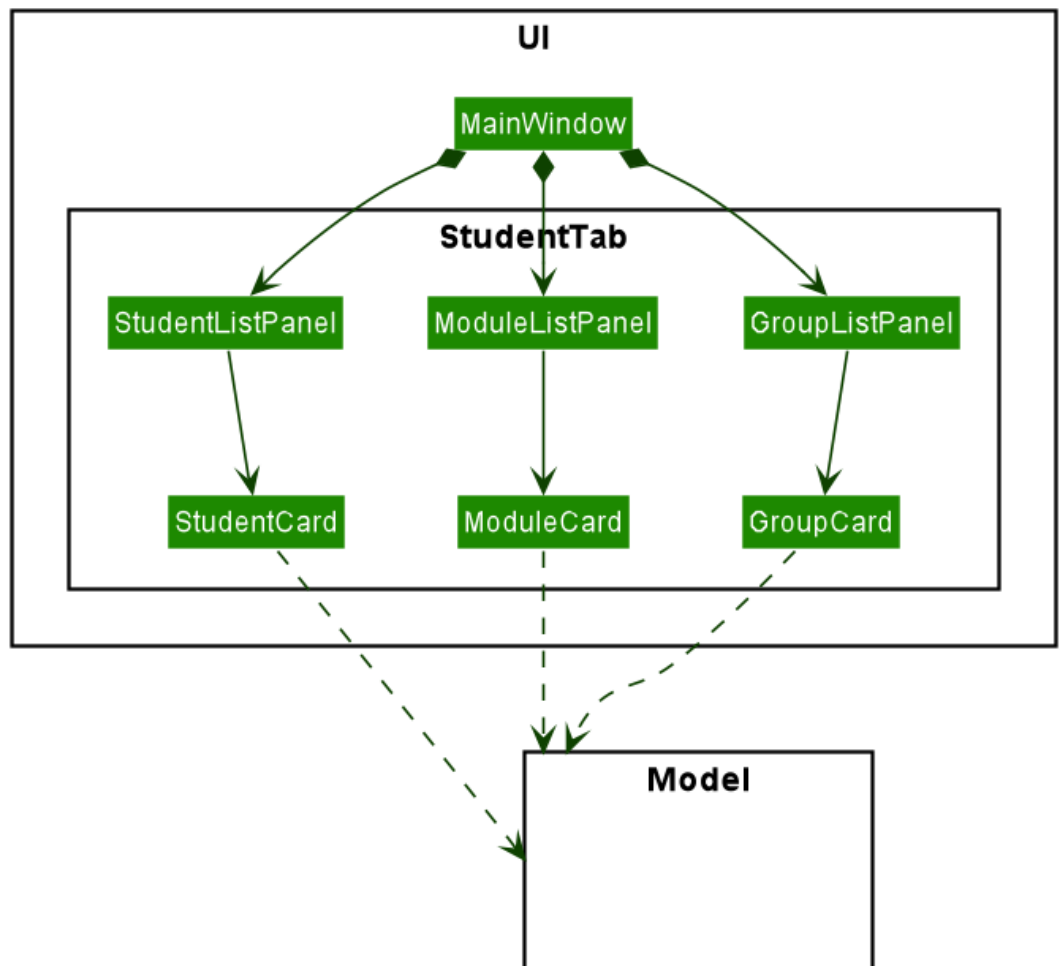


Figure 2. Structure of the Student Tab Component

The following *Class Diagram* shows how the different **Model** components interact with each other.

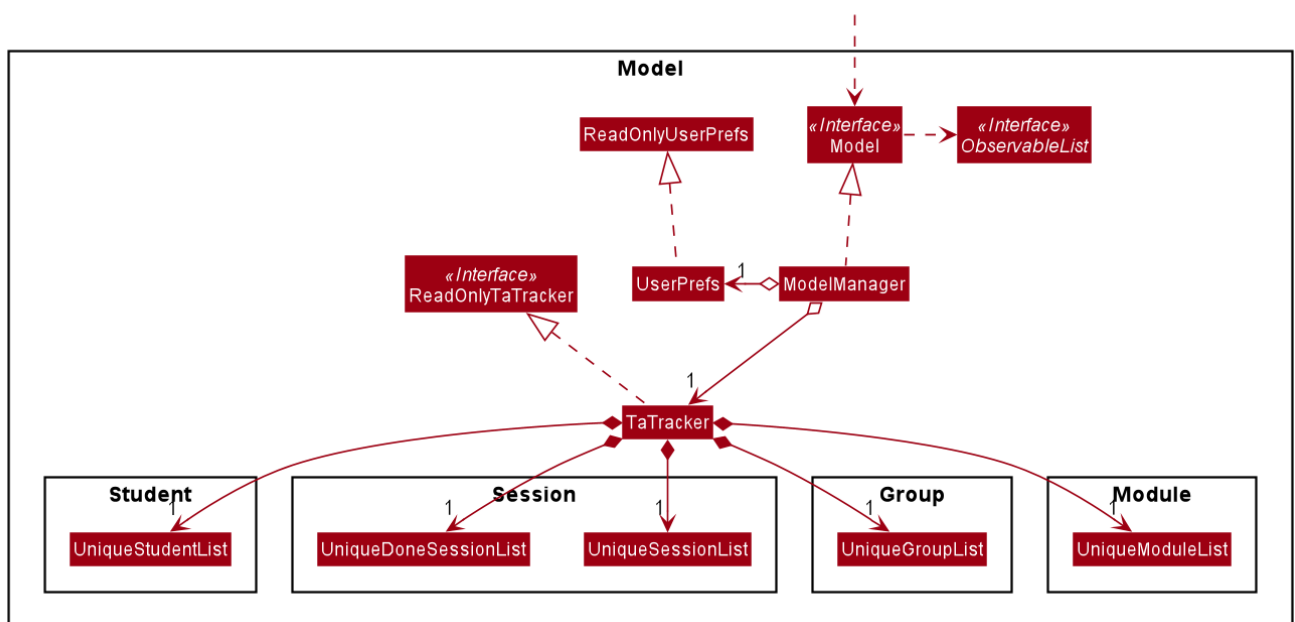


Figure 3. Structure of the Model Component

The following *Class Diagram* shows the relationship between the different classes in the **Model**

component.

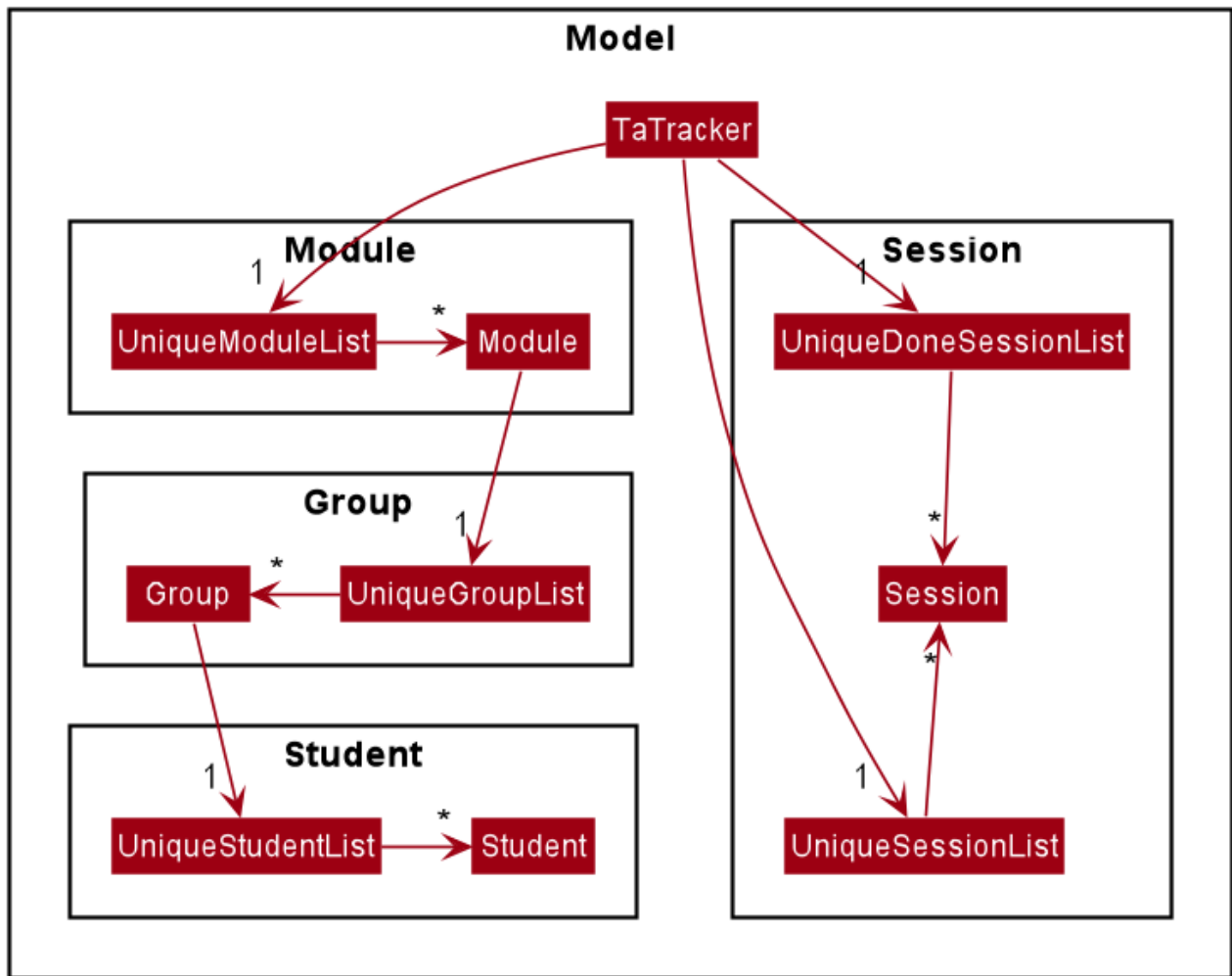


Figure 4. Model Components - Class Diagram

The following *Object Diagram* shows an example of the relationship between the different **Model** objects. This example is based on the state of TA-Tracker when it is first run (without any user data).

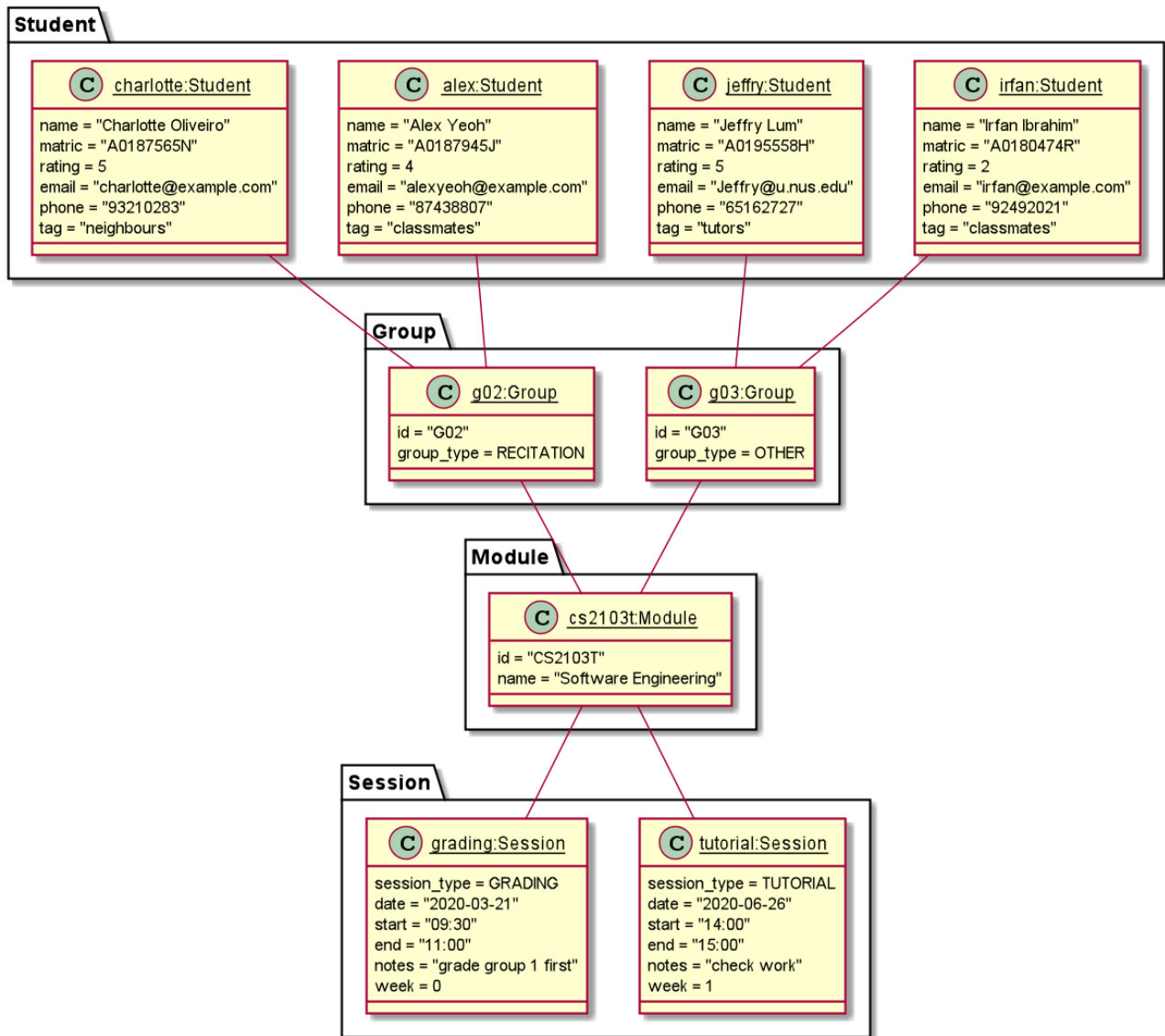


Figure 5. Model Components - Object Diagram

The following *Sequence Diagram* shows the interactions between the **Logic** and **UI** components of the TA-Tracker when the user enters the command `goto claims`.

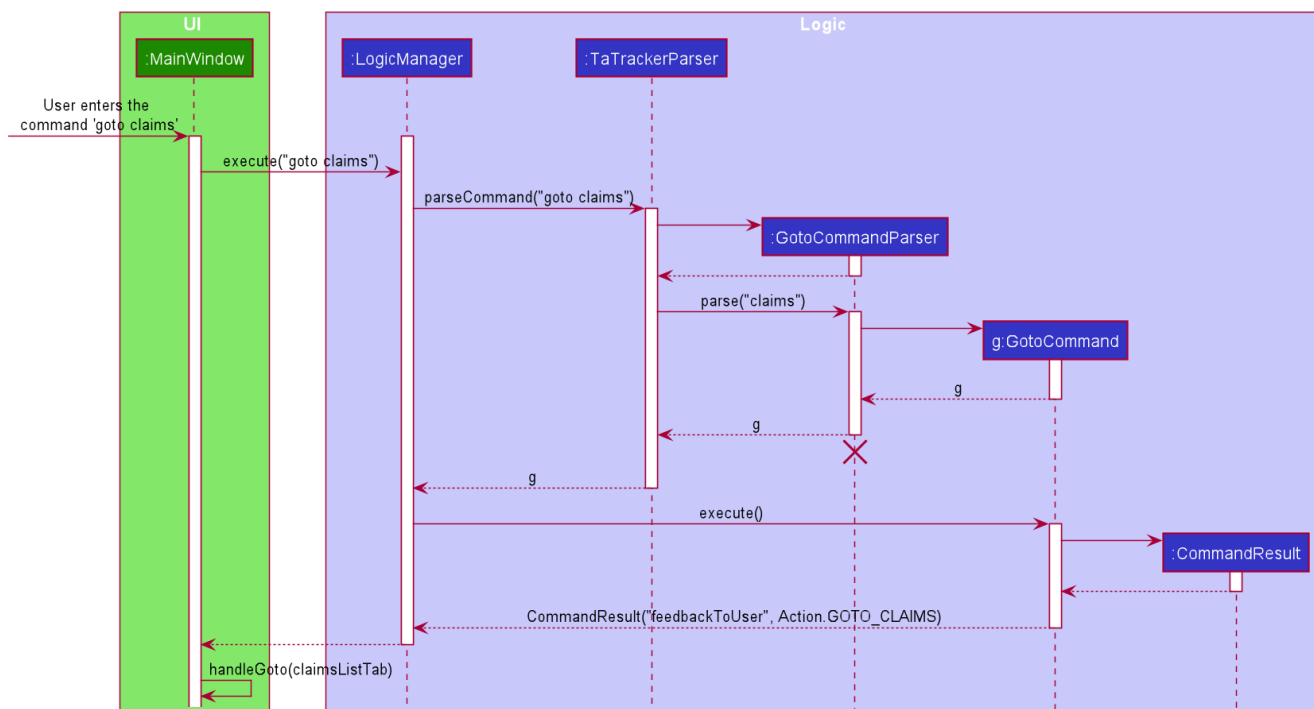


Figure 6. Sequence Diagram for Goto Claims Command

The following *Class Diagram* shows how different classes are related in the functioning of a **Student** Object.

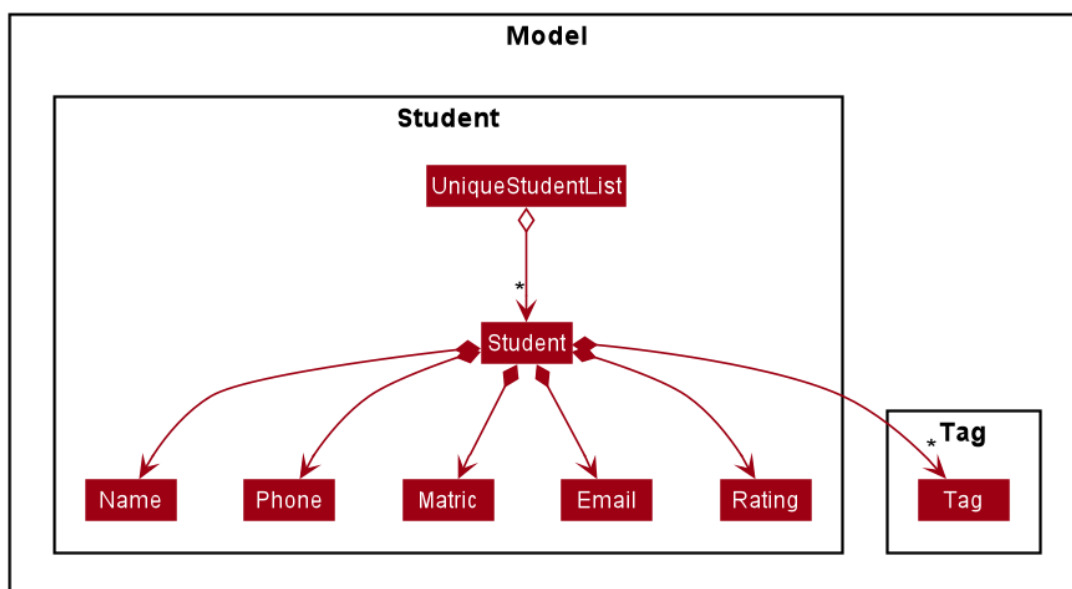
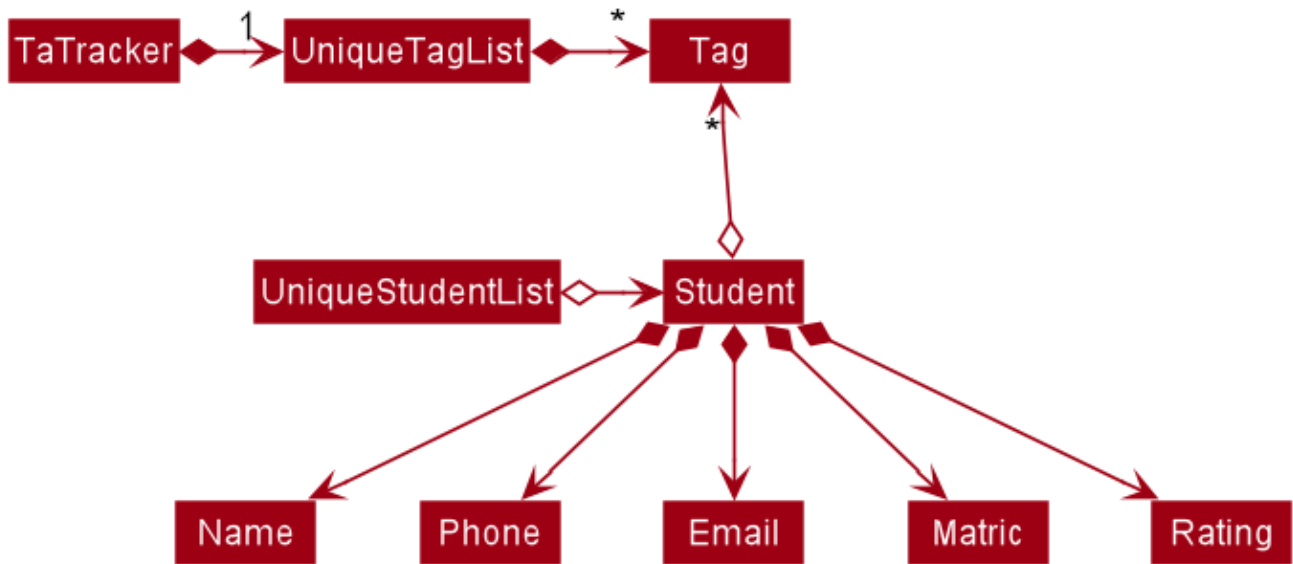


Figure 7. Structure of the Student Component

As a more **OOP** model, we can store a **Tag** list in **TaTracker**, which **Student** can reference. This would allow **TaTracker** to only require one **Tag** object per unique **Tag**, instead of each **Student** needing their own **Tag** object. An example of what such a model may look like is given below.



The following *Class Diagram* shows how different classes are related in the functioning of the **Session View**.

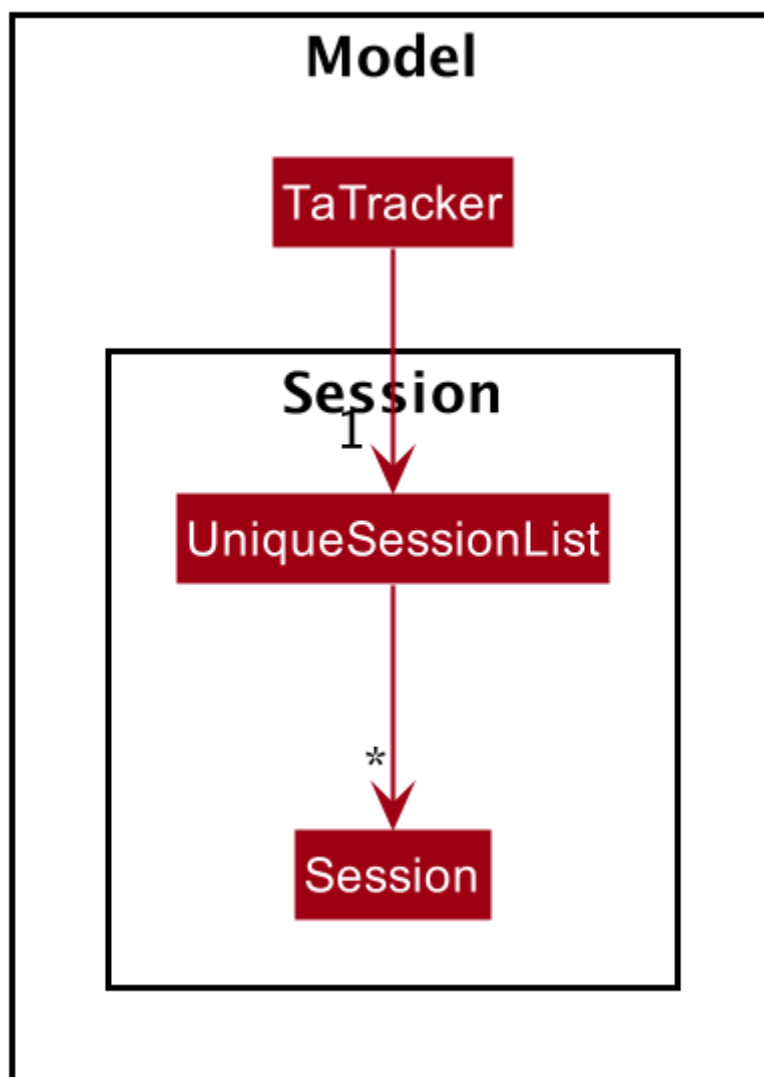


Figure 8. Class Diagram of Session View

The following *Activity Diagram* describes how TaTracker is updated when a **SessionDone** command is entered.

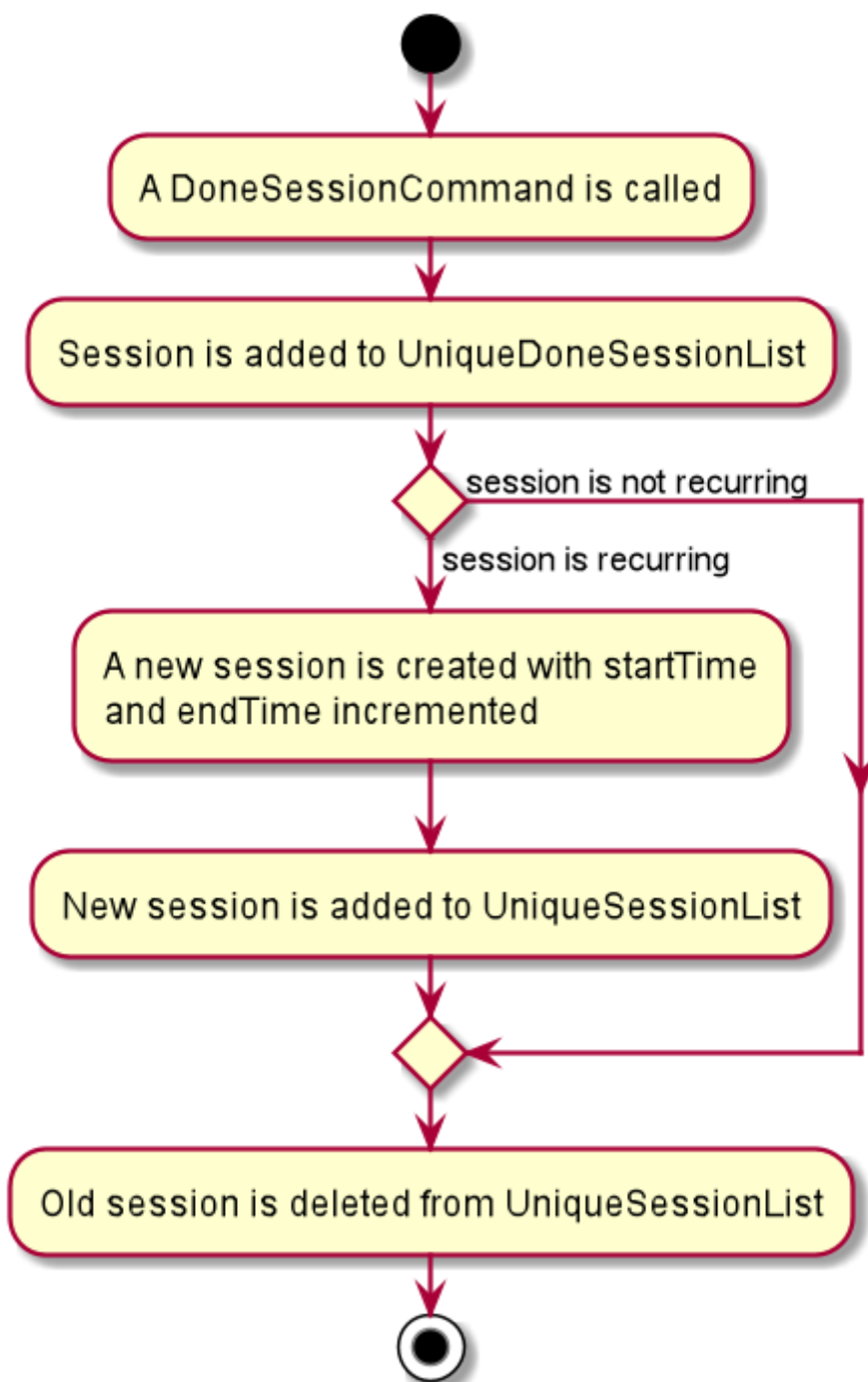


Figure 9. Session Done- Activity Diagram

The following *Class Diagram* shows how different classes are related in the functioning of the **Claims View**.

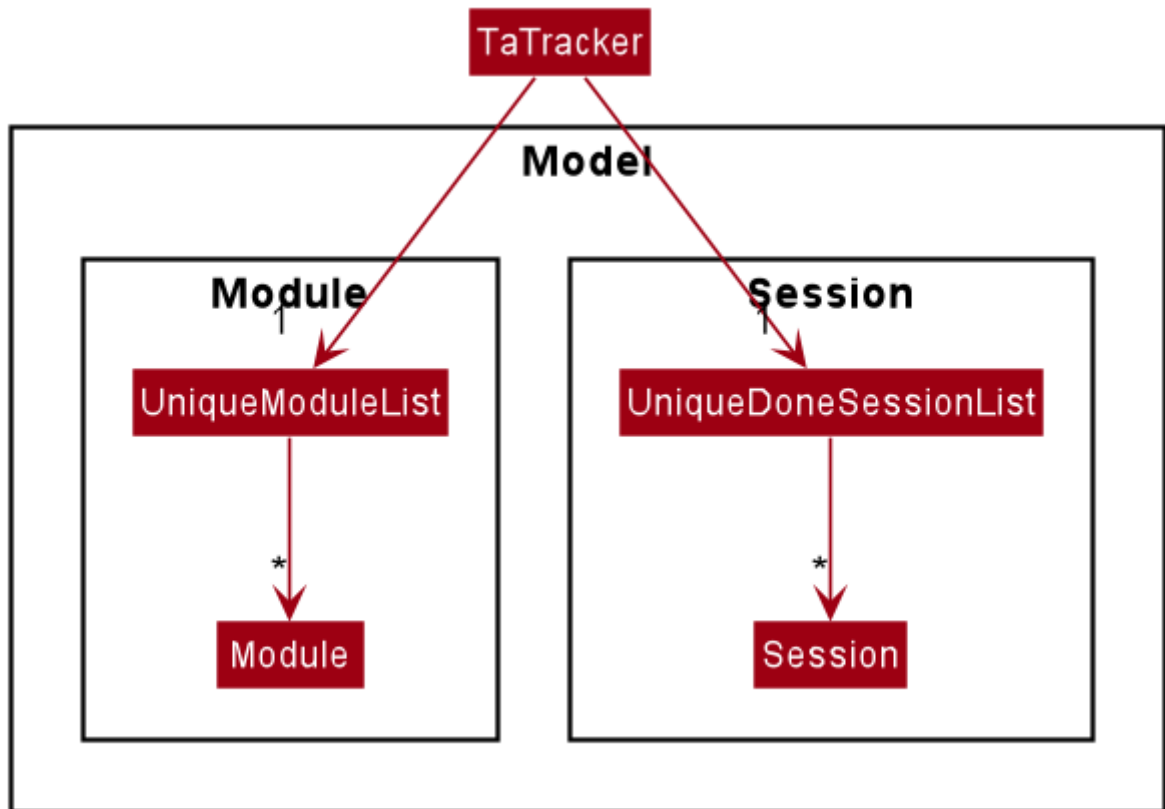


Figure 10. Claims View - Class Diagram