**1. I need to review Jesse’s e-mail message regarding object modeling and the JAD session**

**summary. I need to identify possible use cases and actors, and create a use case diagram for**

**the TIMS system**

Diagram

Description automatically generated

**2. She wants me to create a model of the use case that shows how students register. She**

**also wants to see a class diagram**.



**3. I need to create a sample registration sequence diagram that shows the steps in the**

**registration process**



**4. Jesse asked me to create a state transition diagram that describes typical student states**

**and how they change based on certain actions and events. She said to include a brief cover**

**memo.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Rules** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| **Multiple courses?** | **Y** | **Y** | **Y** | **Y** | **N** | **N** | **N** | **N** |
| **Employed by SCR Client** | **Y** | **Y** | **N** | **N** | **Y** | **Y** | **N** | **N** |
| **Client service representation waiver** | **Y** | **N** | **Y** | **N** | **Y** | **N** | **Y** | **N** |
| **Eligible for discount A?** | **X** | **X** | **X** | **X** |  |  |  |  |
| **Eligible for discount B?** | **X** | **X** | **X** |  | **X** | **X** | **X** |  |

**SIMPLIFIED RULES**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Rules | 1 | 2 | 3 | 4 | 5 | 6 |
| Multiple courses | Y | Y | Y | N | N | N |
| Employed by SCR Client | Y | N | N | Y | N | N |
| Client service representation waiver | - | Y | N | - | Y | N |
| Eligible for discount A? | X | X | X |  |  |  |
| Eligible for discount B? | X | X |  | X | X |  |
| Not eligible for discounts |  |  |  |  |  | X |

**Cover memo**

1. **Brief cover memo of that describes typical student states**
2. **and how they change based on certain actions and events**

Dear Jesse, the state diagram below shows how the students state will change based on various events.

The state of the student will change when they enroll for many courses, makes payment and so on

The state will also change and the change will determine whether they are eligible for discount A or B.

If they are employed by SCR, the state will change too.

**DECISION TABLE**

