EduSpace Business Requirements Documents

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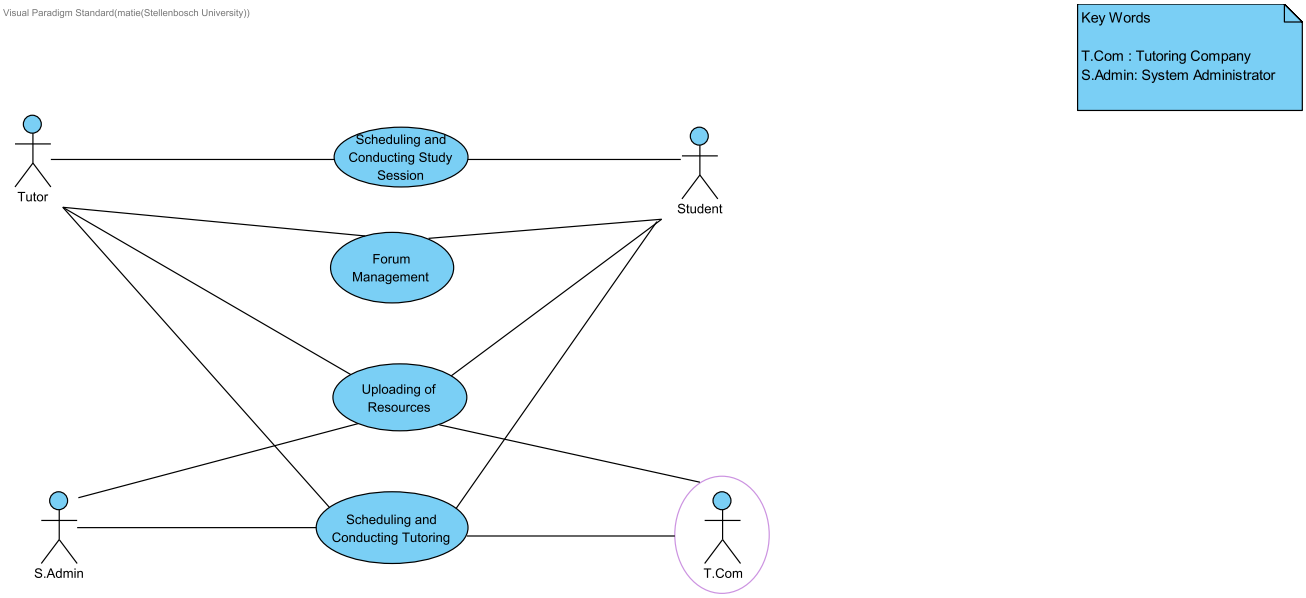
1. Background

EduSpace is a small tutoring company in Stellenbosch that is looking for a way to bridge the gap between student learning at Stellenbosch University. They have approached Z Consultants to create an analysis of their mobile application that will enable to bridge this learning gap at Stellenbosch University. The mobile application aims to create a community of engagement between the students that will also enable companies to advertise their tutoring sessions as well as to share summary notes that will better Stellenbosch students. The application platform looks towards enabling peer-to peer learning between students through creation of tutoring sessions and study sessions.

2. Business Use Case

2.1. Business Use Case Diagram



2.2. Business Use Case Description

2.2.1. System administrator

System administrator for EduSpace refers to the process of verifying accounts to make sure the user is either a Stellenbosch student or a tutoring company. The System administrator will have access to system functionalities such as verifying tutoring sessions from tutoring companies before they can be uploaded. In addition to this they oversee monitoring surveys received from different department within the university and uploading these surveys. These survey's will be made available in the app for students and tutors to participate.

2.2.2. Quiz participation

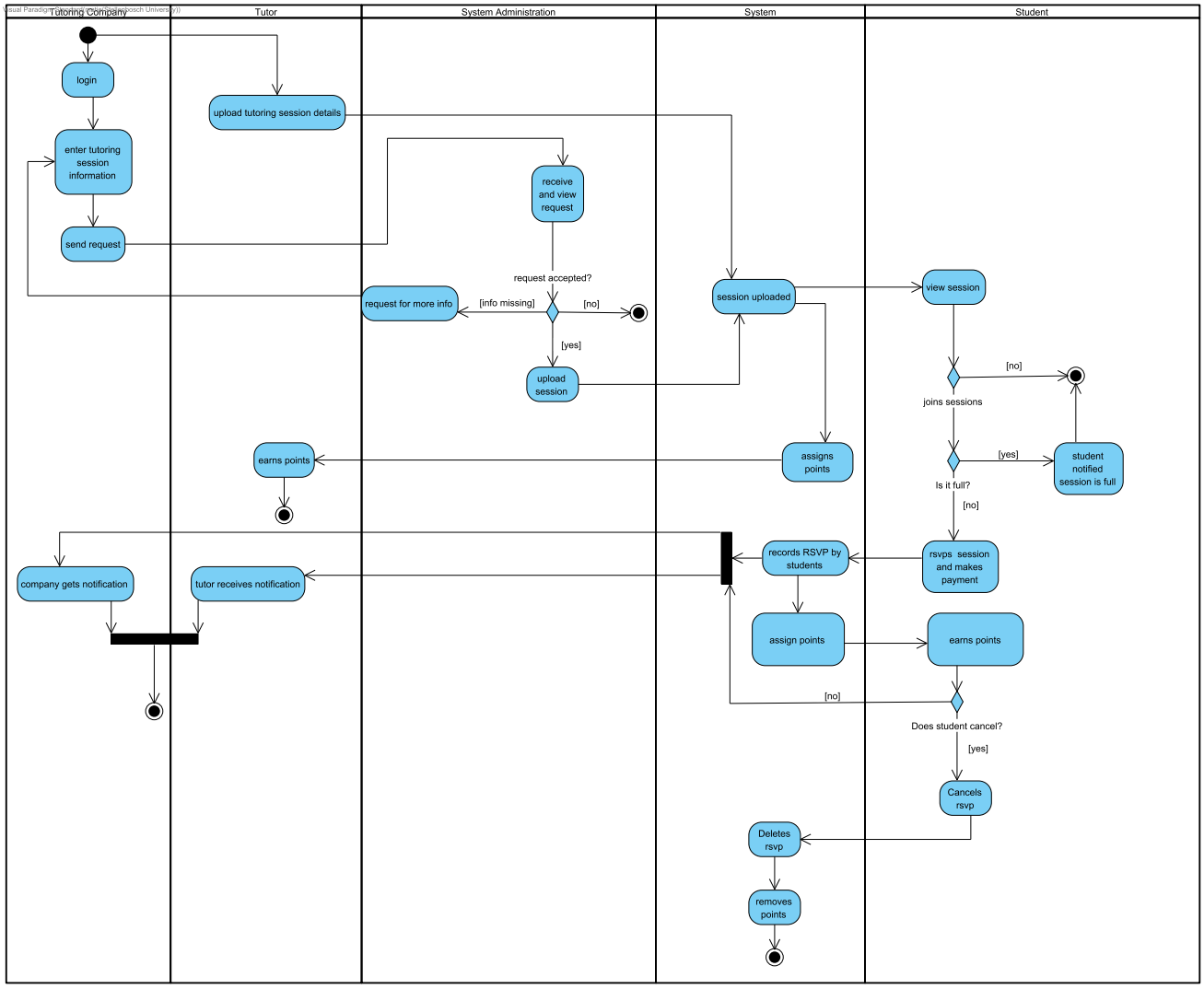
The quiz is part of the study session. The quiz function allows students to pose questions that can be added to the question bank for later reference by tutoring and other students. Questions are checked by system to eliminate duplicates. FAQs can be upvoted once by a user so that they appear at the top. This process results in students getting points.

2.2.3. Point system

The EduSpace app will award points to students for participating in the application services. Students will gain stoints for their participation in study sessions, quizzes, surveys, forums , tutoring sessions and for uploading resources, which can later be redeemed as vouchers to sponsorship companies. The same system will be implemented for students when they participate in the quizzes and host a tutoring session , they in turn earn toints. Toints are not redeemable, but are a status ranking in the application that allow a student to be verified and become a tutor.

3. Activity Diagrams

3.1. Tutoring Session



Tutorial Session Notes

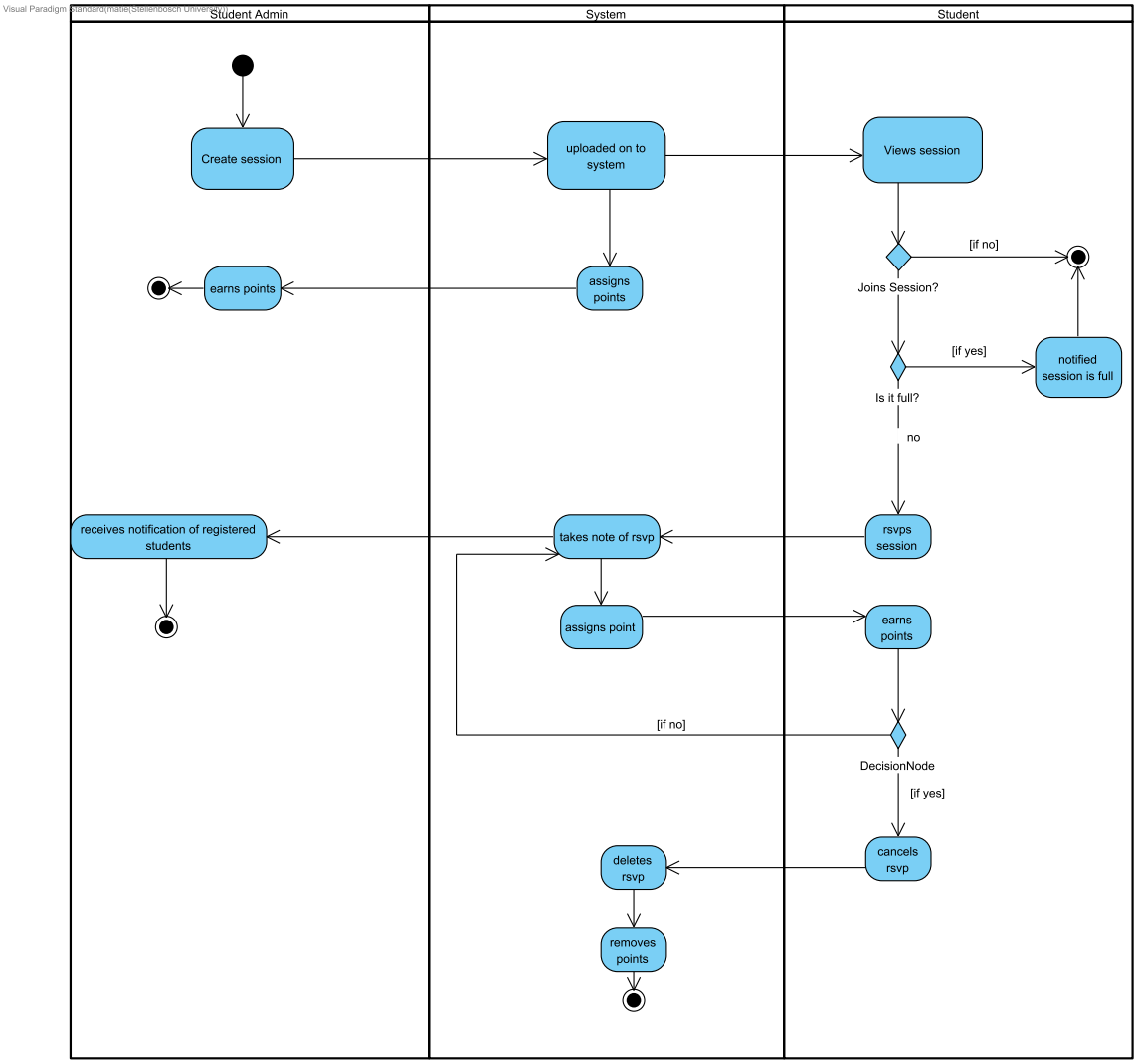
A company is a visitor to the application therefore they request for their session to be marketed through the application.

Whenever something is requested and uploaded there is a notification sent between the sender and the receiver, therefore notification are received via emails.

Points information is in the business yet to be developed.

Students and tutors earn points for participating in the tutoring sessions.
Stoints are awarded to students for joining tutorial sessions and making bookings.
Toints are awarded to tutors for hosting tutorial sessions.

3.2. Study Session



Study Session Notes

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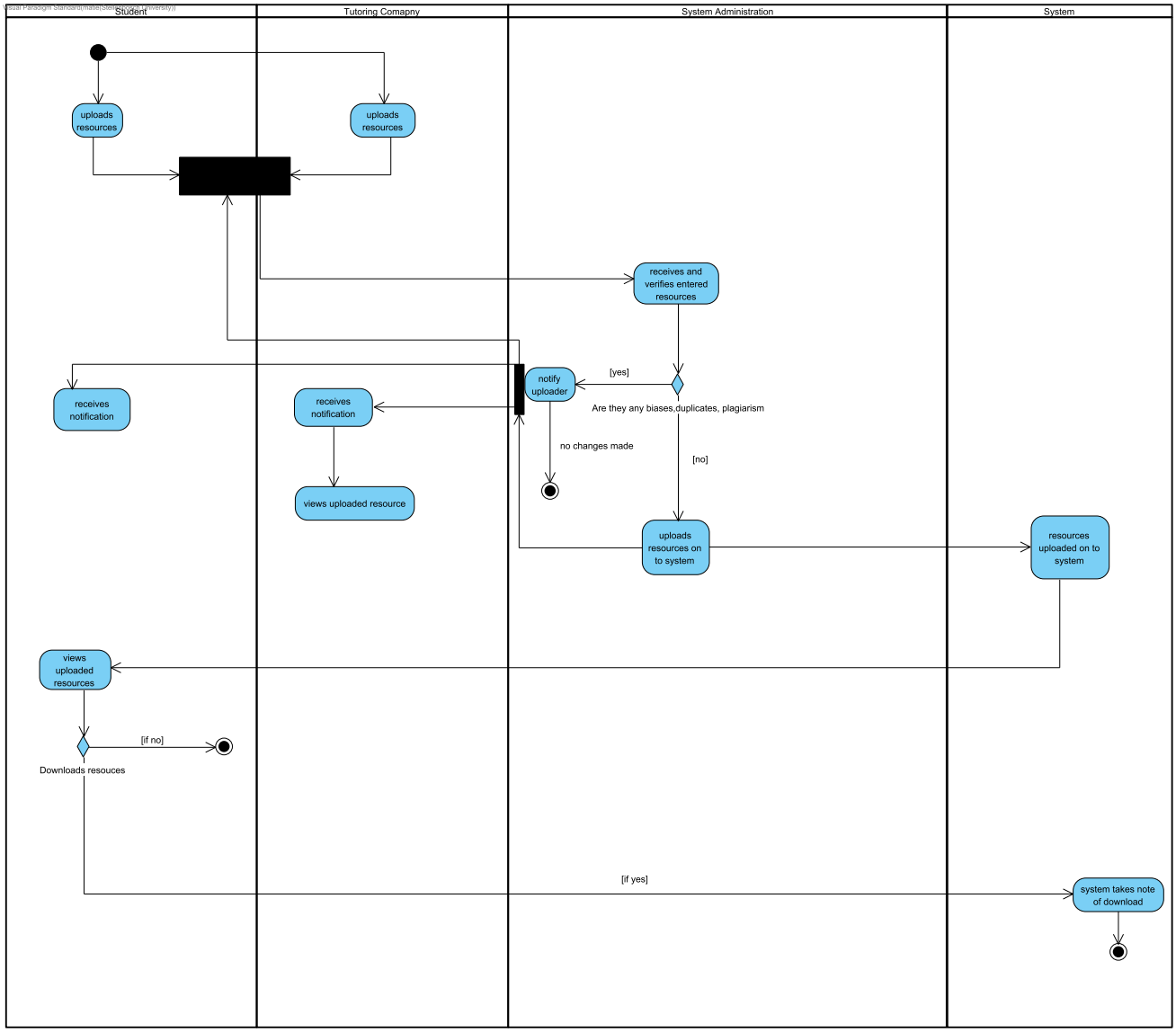
Study Admin and Students earn points through setting of study sessions and joining study sessions set by student admin

Whenever someone creates a session they receive a confirmation notification, then when someone books a study session the booker also receives a notification. Therefore notifications are sent when someone interacts with the system and there is need for confirmation and communication.

More info on the point allocation will be in the business rules still yet to be created

NB: Student Admin is the student who creates the session and the student is any individual who can join a session

3.3. Uploading of Resources

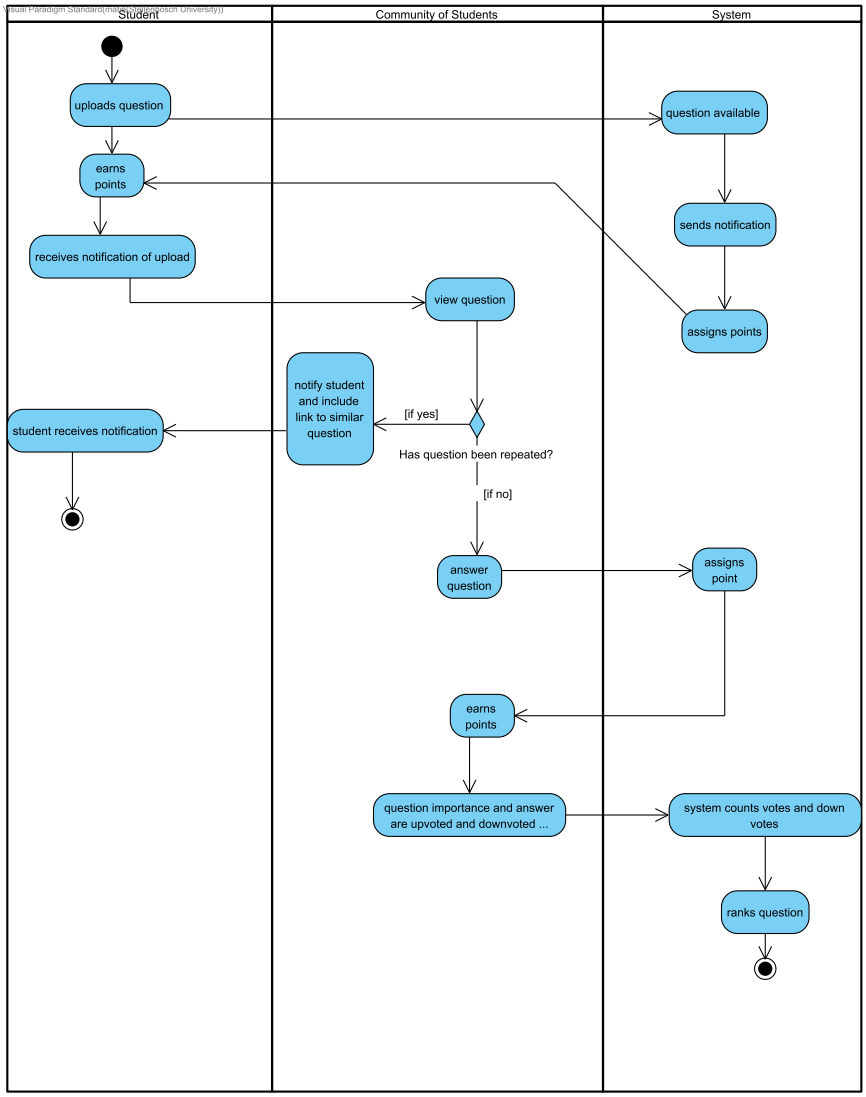


Uploading of Resources

When a student and a tutoring company upload resources they receive a notification as well as the receiver. If the SA requests for ore info he sends a notification therefore the up loaders receive a notification. If the SA uploads a resource they notify the uploads and if a student downloads a resource the system is notified

Points specification to be added in the business rules. Please refer there for further clarification. (Yet to be created)

3.4. Forum Particpation



Forum Participation

The BUC is difficult to model has a activity diagram because the answering, flagging and voting of answers takes place simultaneously. Therefore this a arough picture of the activities that takes place during the forum participation.

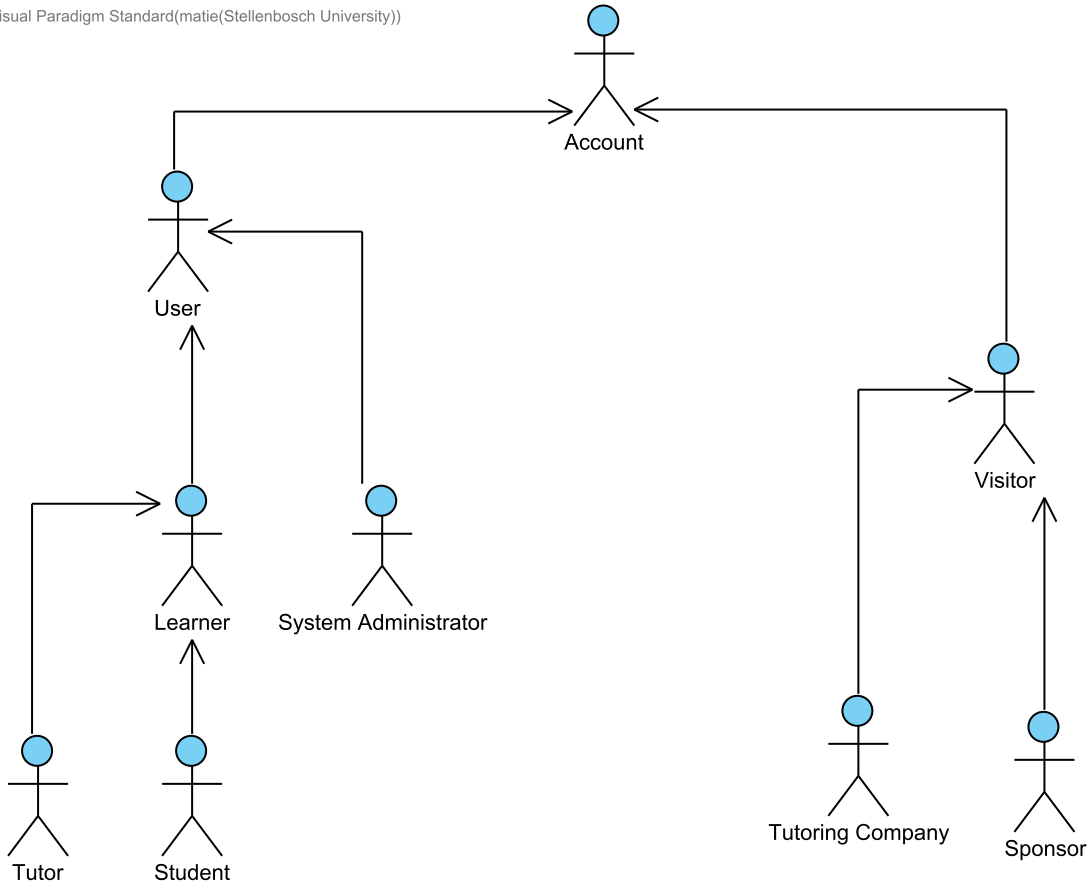
Point Information is in the Business Rules. Still yet to be added

NB: Community of Students is differentiating the student who has posted the question from the rest of the students

4. Role Map and Use Case Diagrams

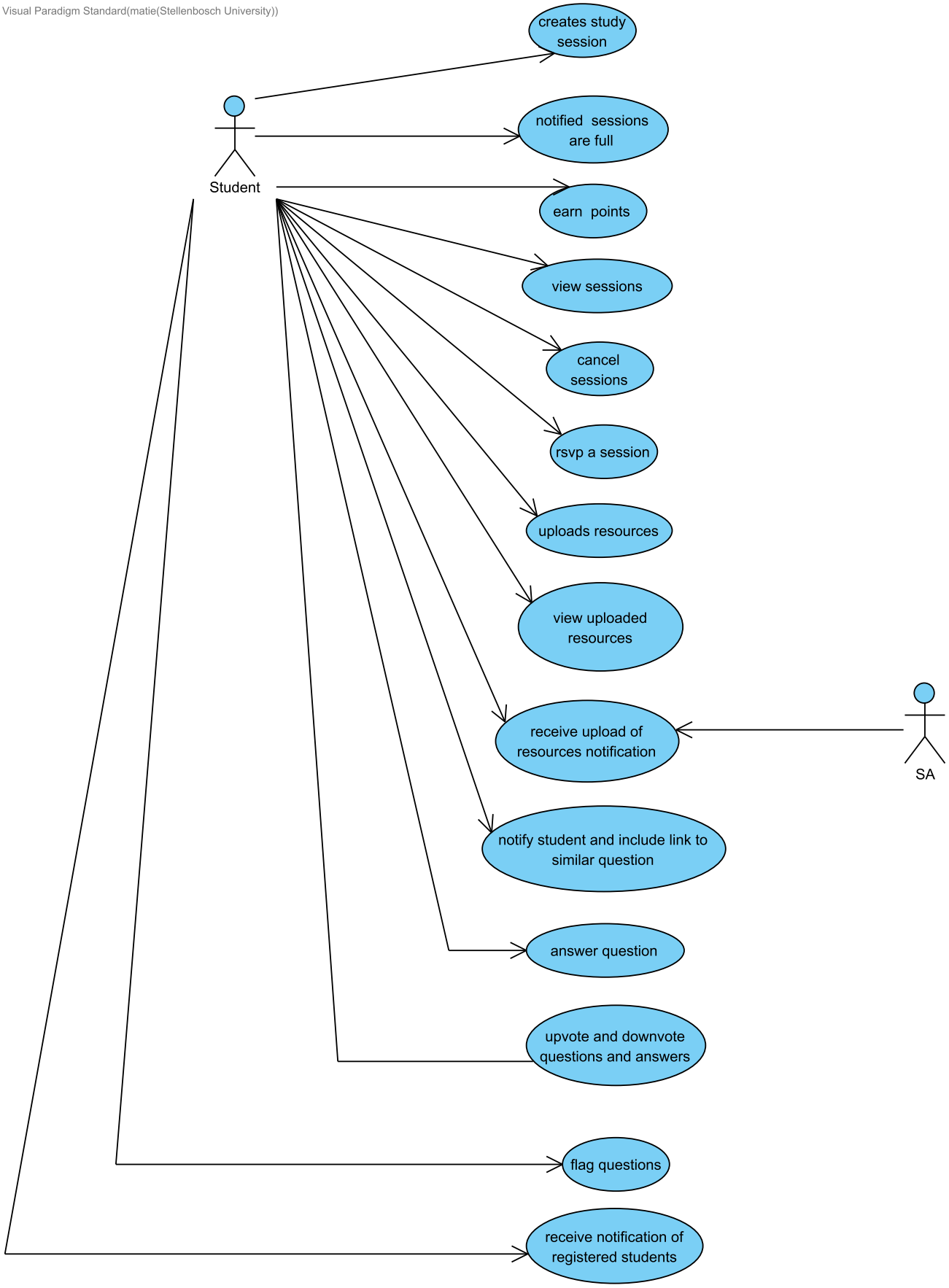
4.1. Role Map

Visual Paradigm Standard(matie(Stellenbosch University))

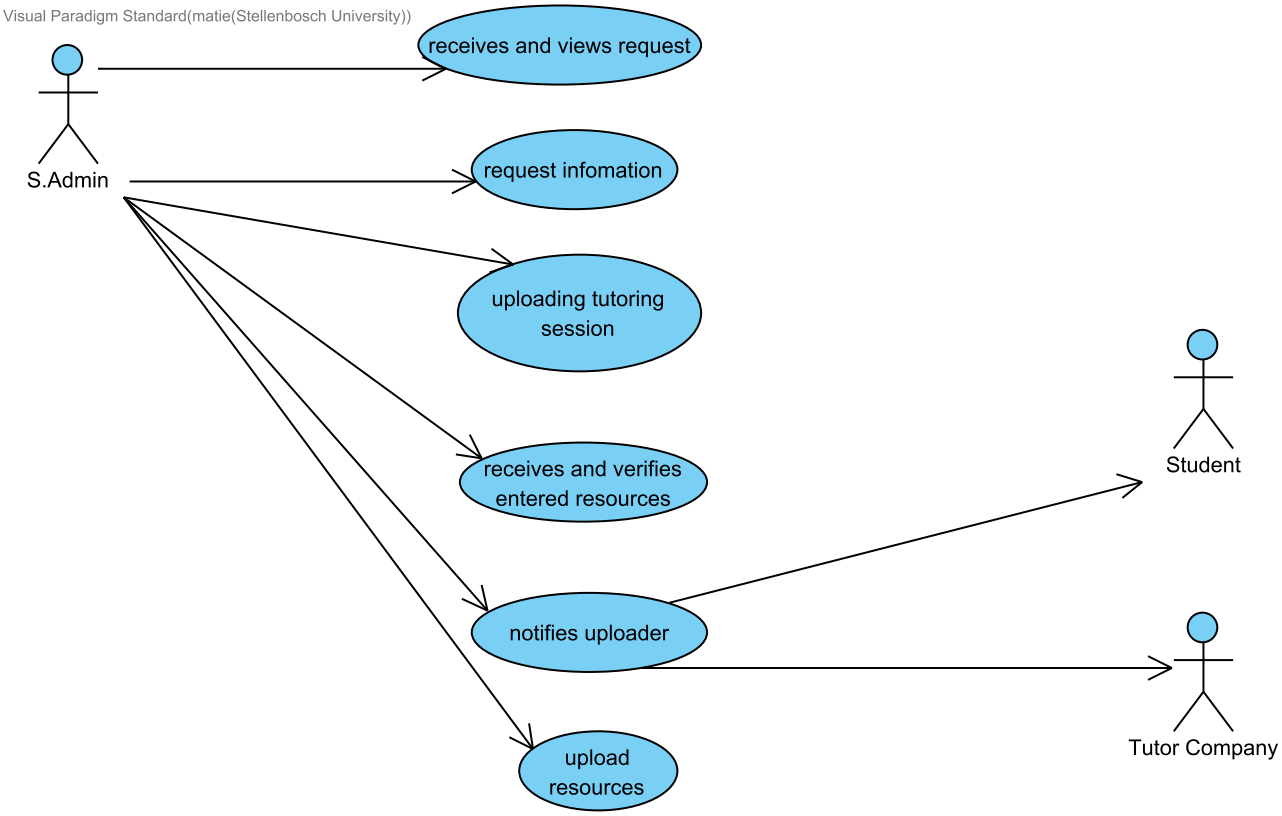


4.2. Student

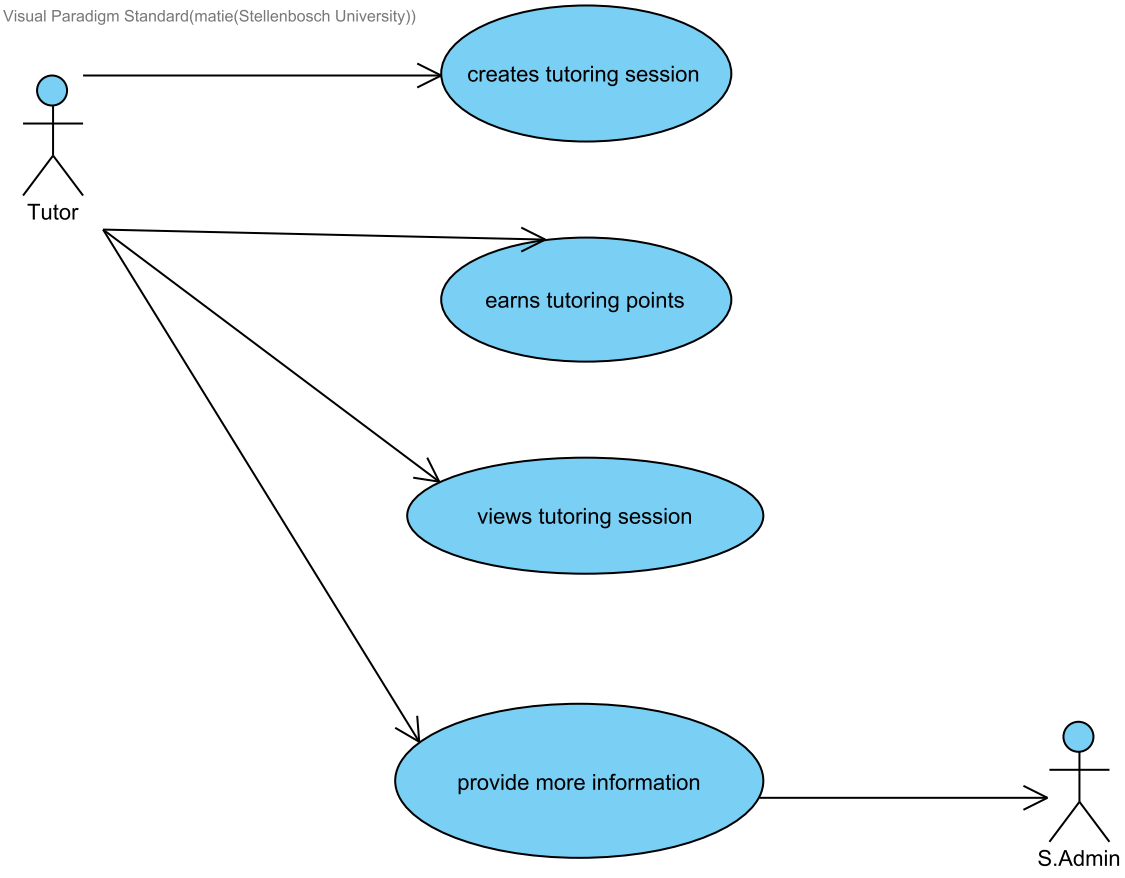
Visual Paradigm Standard(matie(Stellenbosch University))



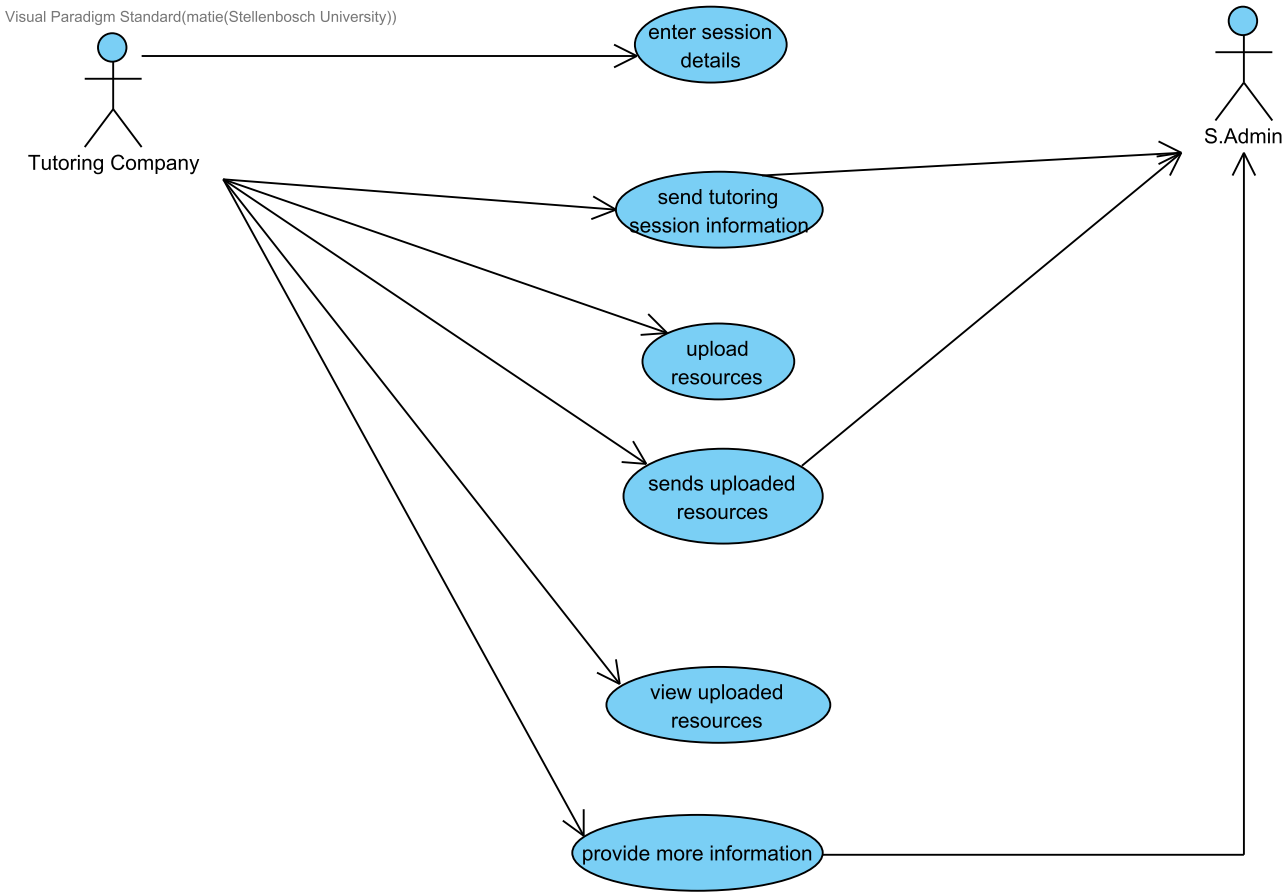
4.3. System Administratr



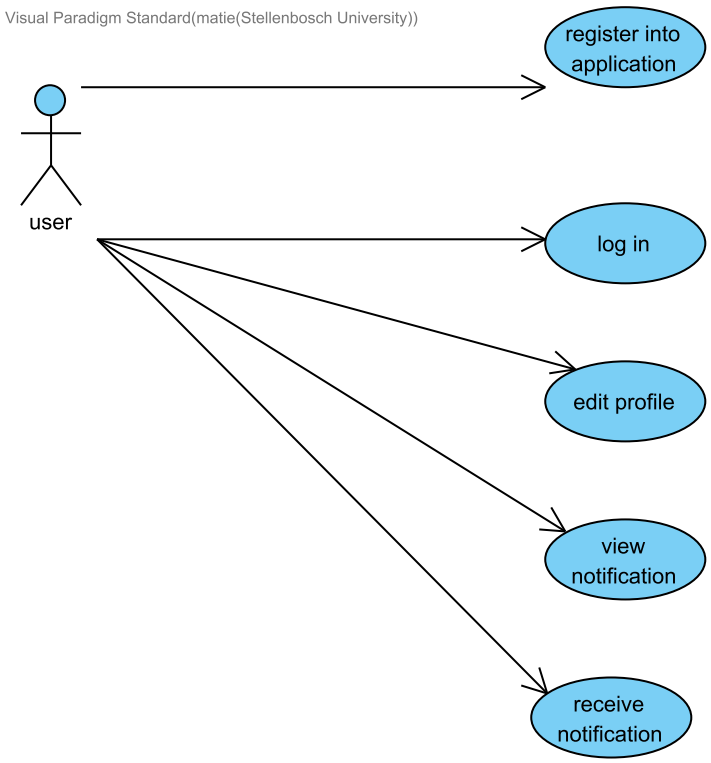
4.4. Tutor



4.5. Tutoring Company System Use Case

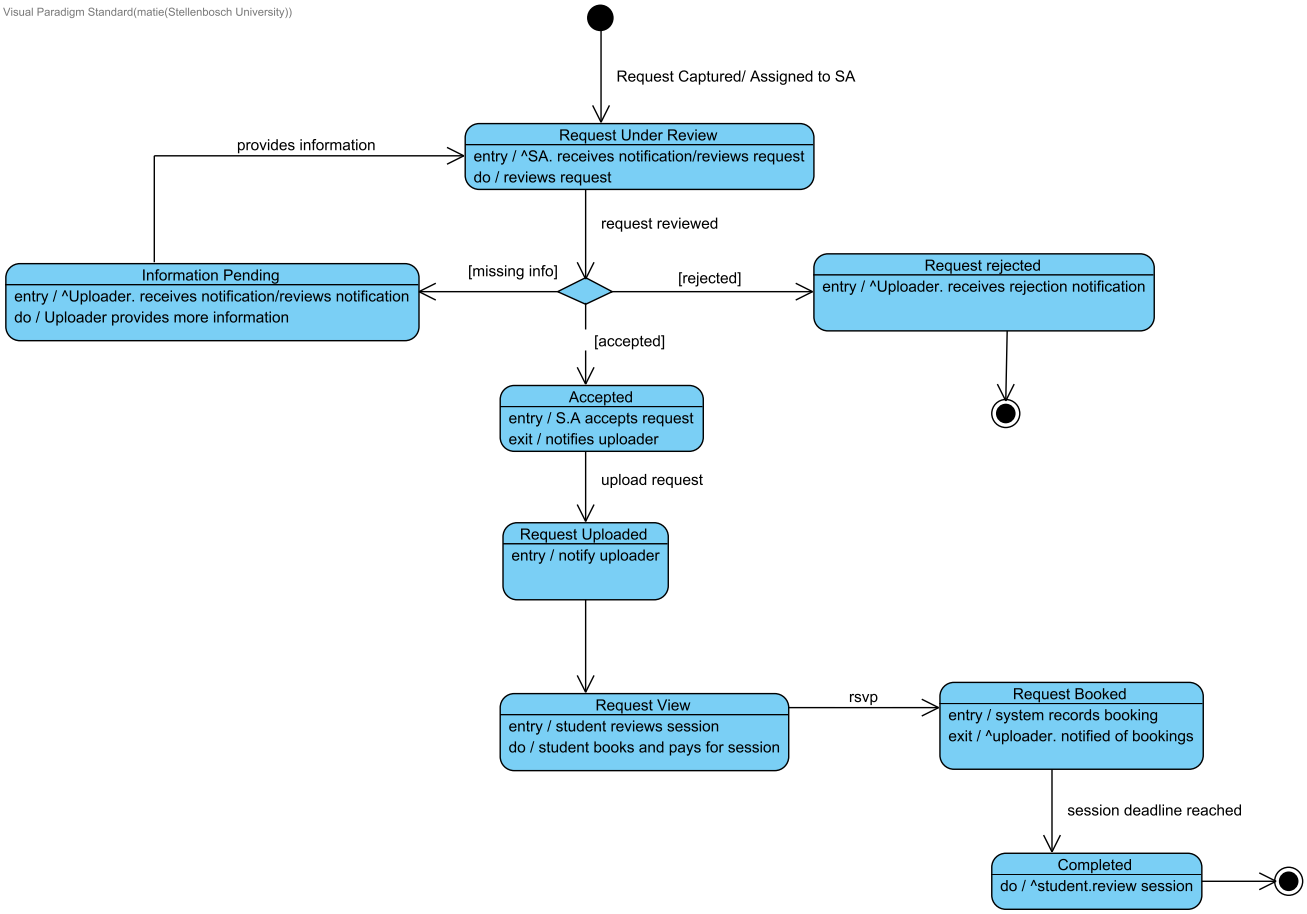


4.6. User

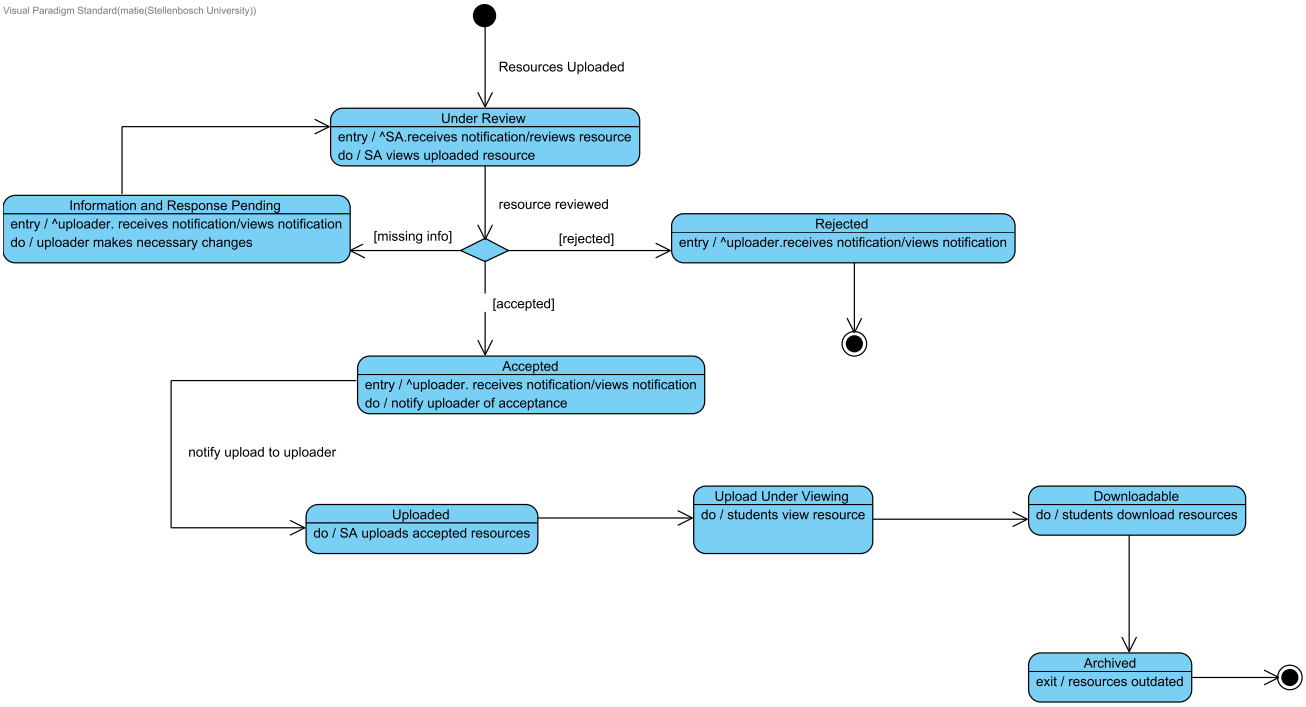


5. State Machine Diagram

5.1. Tutoring Session



5.2. Uploading of Resources



6. Related Artificates

6.1. Point Management

Action	Stoints	Toints Quantity
Posting a question in the forum and it gets 5 upvotes	Redeemable Yes	Not Redeemable No stoints
Answering a question on the forum	Yes	Yes **Stoints:** 5 stoints per multiple of 5 upvotes where multiples of 5 upvotes will receive 5 stoints per **Toints:** 5 toints per multiple of 5 upvotes where multiples of 5 upvotes will receive 5 toints per
Take part in a survey	Yes	No 8 stoints The creator of the survey can pay the university to make the survey award more Stoints if they want to entice more students to participate
Adding accepted questions to question bank	Yes	No 5 stoints
Attend study session	Yes	No 10 stoints

	Yes	3 stoints
Purchasing study notes or other online resources in the resources tab		
Hosting tutoring session	No	Y e Default: 15 toints s Per session (each session is an hour long)