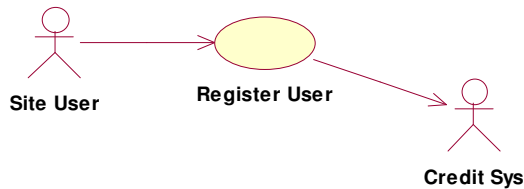**Use Case:**   Register User

Description: The Use Case allows a user to provide his personal information, password details and register online through a credit card. The registration is subject to approval of the transaction by the Credit System. The registration is valid for a period of 1 year. Upon registration, the user is set to the logged in status.

Use Case diagram:

Pre-conditions: None.

Post-conditions: If the Use Case is successful,
                    The user information is stored.
                    The registration fee is transferred to the company's account.
                    The user is set to logged-in status.
            If not, the system state is unchanged.

Flow of Events:

Primary Flow:

This use case starts when the user chooses to register with the site.

1. The system requests that the actor enter his/her personal information and password information.
2. The actor enters his personal and password information.
3. The system validates the information provided.
4. The system checks if the user name is already found.
5. The system requests that the actor enter his card information for making the payment.
6. The actor enters his card information.
7. The system validates the card information.
8. The system requests the Credit System for approval of the transaction.
9. The Credit System approves the transaction and transfers the amount to the company's account.
10. The date of registration is set to the current date and the date of expiry is set to 12 months from the current date.
11. The system stores the user's personal and password information.
12. The system sets the user to the logged-in status.
13. The system displays a confirmatory message to the user.
14. Use Case ends.

Alternate Flows:

1. User information is not valid
    1.1. If the user's personal or password information is not valid, the system displays an error message. The actor can choose to either return to the beginning of the Primary Flow or cancel the registration at which point the Use Case ends.

2. **User name is already found**
    2.1. If the system finds that the username is already in use, the system displays an error message. The actor can choose to either return to the beginning of the Primary Flow or cancel the registration at which point the Use Case ends.

3. **Card information is not valid**
    3.1. If the user's card information is not valid, the system displays an error message. The actor can choose to either return to the beginning of the Primary Flow or cancel the registration at which point the Use Case ends.

4. **Credit card transaction is not approved**
    4.1. If in the primary flow, the system does not get an approval from the Credit System, the system displays an error message. The actor can choose to either return to the beginning of the Primary Flow or cancel the registration at which point the Use Case ends.

Exception Flow:

1. **Credit System unavailable**
    a. If the system is unable to communicate with the Credit System, the system will attempt to reconnect with the Credit System after a specified period. If there is a failure to connect after fixed number of attempts, the system displays an error message. The actor can choose to either return to the beginning of the Primary Flow or cancel the registration at which point the Use Case ends.

Special Requirements: User's card information needs to be kept confidential and secure.
It may be required to interact with different credit systems.

Extension Points: None.