

The diagram illustrates the Society Sphere System as a central hub. It consists of a central circle labeled "Society Sphere System". To the left of the circle is a rectangular box labeled "residents", and to the right is a rectangular box labeled "administrators".

Interactions are shown as follows:

- An arrow points from the "residents" box to the "Society Sphere System" circle, labeled with the text: *user credentials, complaints, payments, visitor registrations, property listings, amenity requests*.
- An arrow points from the "Society Sphere System" circle to the "residents" box, labeled with the text: *response*.
- An arrow points from the "administrators" box to the "Society Sphere System" circle, labeled with the text: *complaint resolutions, billing, visitor approvals, transaction facilitation, amenity confirmations*.
- An arrow points from the "Society Sphere System" circle to the "administrators" box, labeled with the text: *check*.

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    usecaseDiagram
        actor Residents
        actor Administrators
        actor Visitors

        usecase UC1 as User Authentication
        usecase UC2 as Property Transactions
        usecase UC3 as Billing Management
        usecase UC4 as Book Amenities
        usecase UC5 as Visitor Management
        usecase UC6 as Complain Management

        dataStore DS1 as property listing
        dataStore DS2 as billing
        dataStore DS3 as payment details
        dataStore DS4 as amenities
        dataStore DS5 as visitors

        Residents --> UC1 : login credentials
        Administrators --> UC1 : login credentials
        Residents --> UC2 : sell/buy from residents
        Residents --> UC3 : view bills from resident
        Residents --> UC4 : book amenity from resident
        Residents --> UC5 : visitor info from resident
        Residents --> UC6 : complain from resident
        Residents --> UC1 : confirmation status
        Residents --> UC1 : complain status
        Residents --> UC1 : amenity status
        UC1 --> Residents : admin confirm
        UC1 --> UC2 : admin generate bills
        UC1 --> UC3 : admin confirm
        UC1 --> UC4 : approval/reject status
        UC1 --> UC5 : admin visitor confirm
        UC1 --> UC6 : admin resolve
        UC2 --> DS1 : sell info
        DS1 --> UC2 : buy info
        UC2 --> UC3 : bill information
        DS2 --> UC3 : bill pay
        UC3 --> DS3 : details
        DS3 --> UC3 : status payment
        UC3 --> UC4 : amenity info
        UC4 --> DS4 : amenities
        UC5 --> DS5 : resident info
        DS5 --> UC5 : approval/reject status
        UC5 --> UC6 : complain info
        UC6 --> DS6 as complaints
        DS6 --> UC6 : approval/reject status
        UC6 --> UC1 : visitor status
        UC6 --> UC5 : approval/reject status
    
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