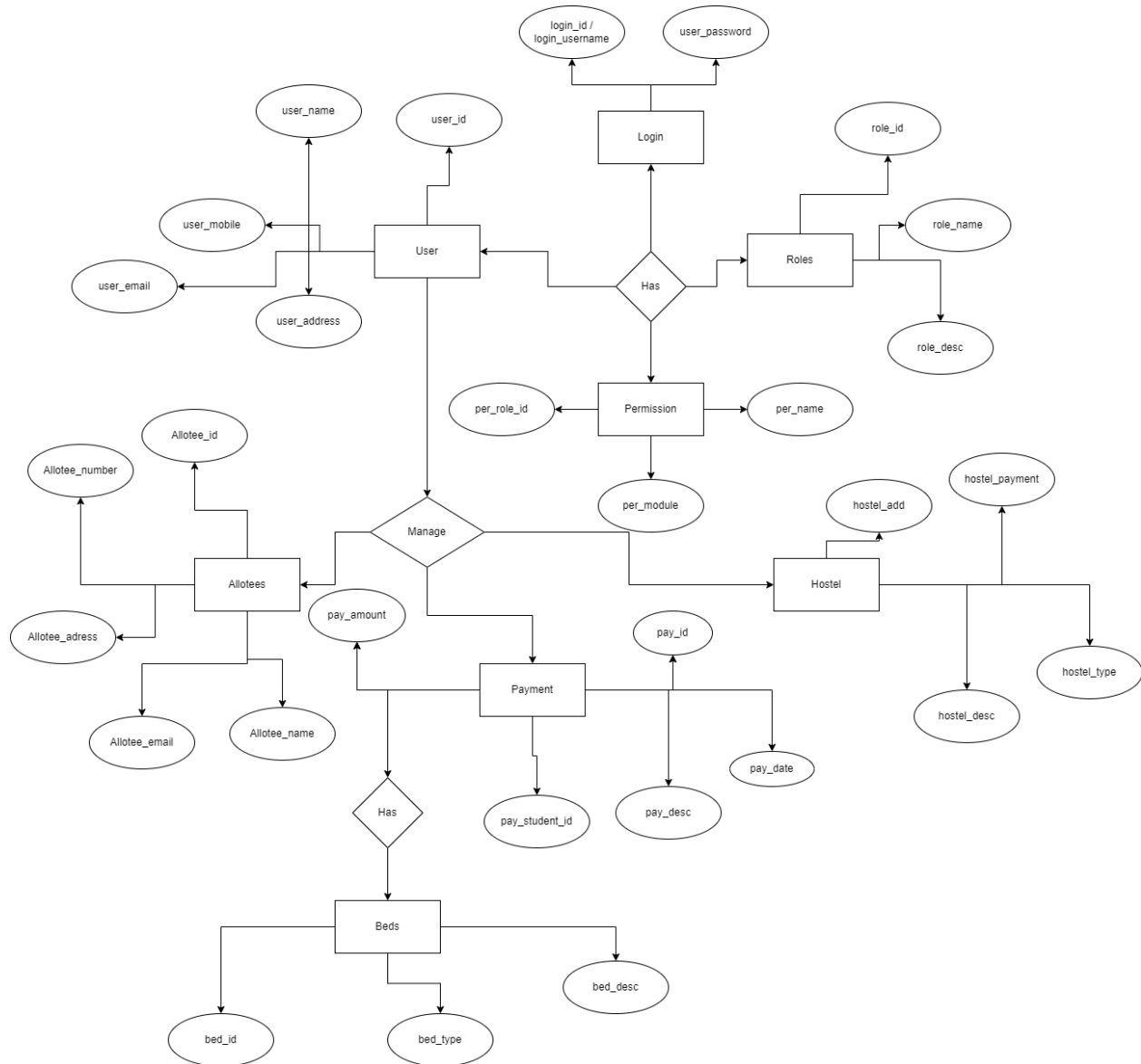


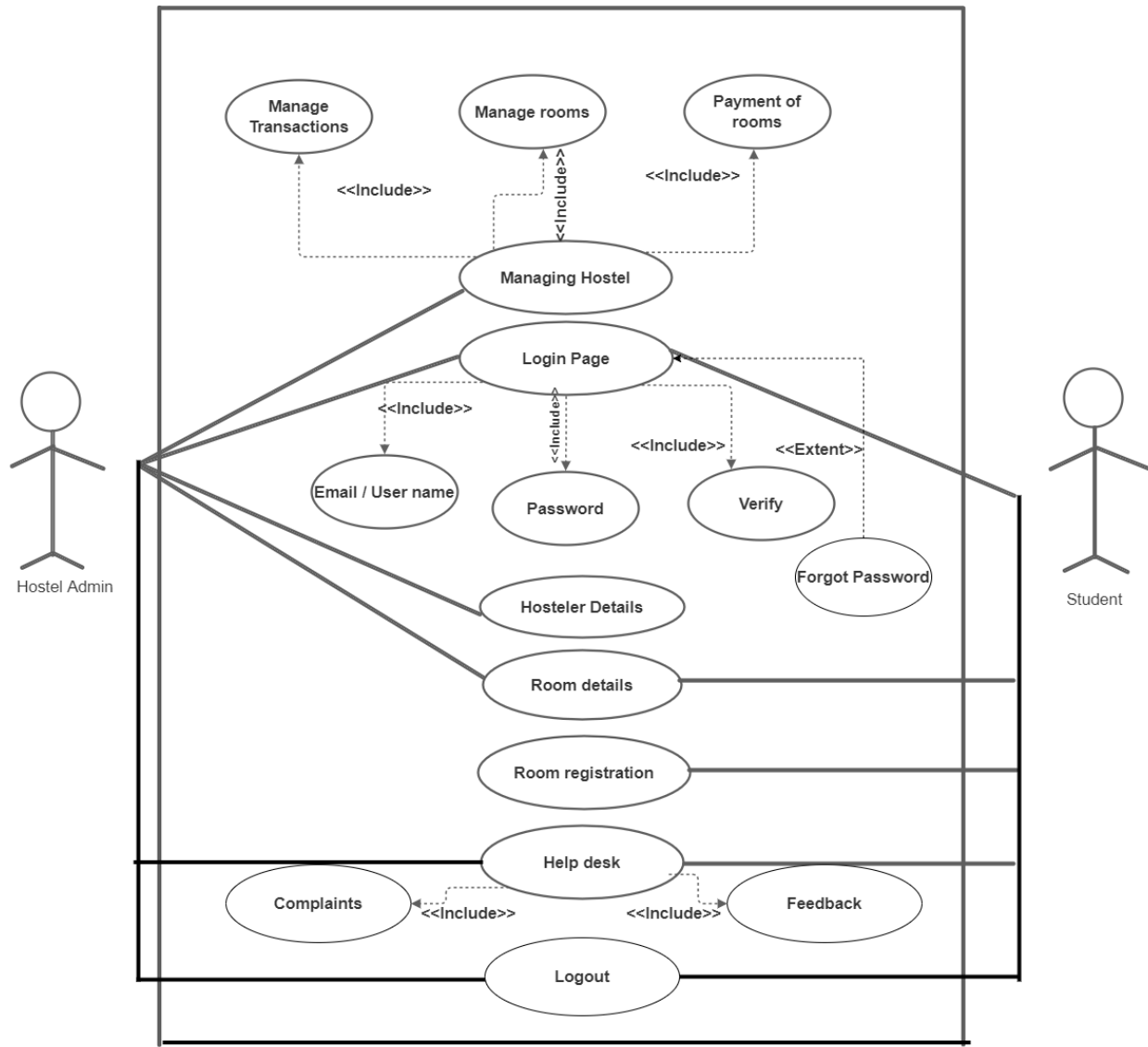
ER diagram:

<https://app.diagrams.net/#G1ekQjnFRlIXnCab-Cd5CrXZPYCfPwhcRy>



Use case diagram:

https://app.diagrams.net/?src=about#G1DgXsgccCWsUGlvrfl6R_RRTIokkeSlua



Use case diagram Scenarios:

Use Case ID	UC-100
Use Case	Manage Hostel
Actors	(H) Admin
Description	Admin logs in and Opens the hostel room booking, Manage rooms, Manage student transactions and payments.
Pre-Conditions	Login page opens.
Flow of Events	1. Admin will log in.

	<ol style="list-style-type: none"> Then they're directed to the dashboard. They can open room bookings based on availability. Then they can manage rooms, transactions and payments made by the hostlers. Once the admin logs out of the software, then the application is closed.
Post-Conditions	Login Page is back on.
Alternative Flows	Server may have some issues due to heavy traffic then the server doesn't allow all of the users to log in concurrently.
Etc.	

Use Case ID	UC-200
Use Case	Login Page
Actors	(I) Hostler/Admin
Description	Students and admin fill in their details to log in and view the dashboard, can book rooms and pay the fee accordingly.
Pre-Conditions	Login page opens.
Flow of Events	<ol style="list-style-type: none"> Students and admin fill in their respective details like ID/Username and password. They are directed to the dashboard and can view room details and proceed with the payment.. Then, the person is logged out once the logout button is selected.
Post-Conditions	Login page is back on.
Alternative Flows	Server may have some issues due to heavy traffic then server doesn't allow all of the users to log in

	concurrently.
Etc.	

Use Case ID	UC-300
Use Case	Hostler Details
Actors	(J) Admin
Description	Admin logins and enters student details respectively.
Pre-Conditions	Login page opens.
Flow of Events	<ol style="list-style-type: none"> 1. Admin login into the portal. 2. Admin selects student details. 3. Admin enters the student details based on the data obtained from the students. 4. Admin enters details such as mobile number, address, parent details etc. 5. Then, the person is logged out once the logout button is selected.
Post-Conditions	Login page is back on.
Alternative Flows	Server may have some issues due to heavy traffic then server doesn't allow all of the users to log in concurrently.
Etc.	

Use Case ID	UC-400
Use Case	Room details

Actors	(K) Student
Description	Students check for the rooms available and details regarding them.
Pre-Conditions	Login page opens.
Flow of Events	<ol style="list-style-type: none"> 1. Students will log in. 2. They are directed to the dashboard. 3. They choose the room details option. 4. They can see the available rooms in that hostel. 5. Once they go through different types of rooms available then they can select a room based on their choice. 6. Then they should book a room and then proceed with the payment gateway. 7. The student is then logged out once the logout button is selected.
Post-Conditions	Login page is back on.
Alternative Flows	Server may have some issues due heavy traffic then server doesn't allow all of the users to log in concurrently.
Etc.	

Use Case ID	UC-500
Use Case	Room Registration
Actors	(L) Student
Description	Student logins, register for rooms in the hostel, and pay fees.
Pre-Conditions	Login page opens.
Flow of Events	<ol style="list-style-type: none"> 1. Students login into the portal using respective login details like ID/Username

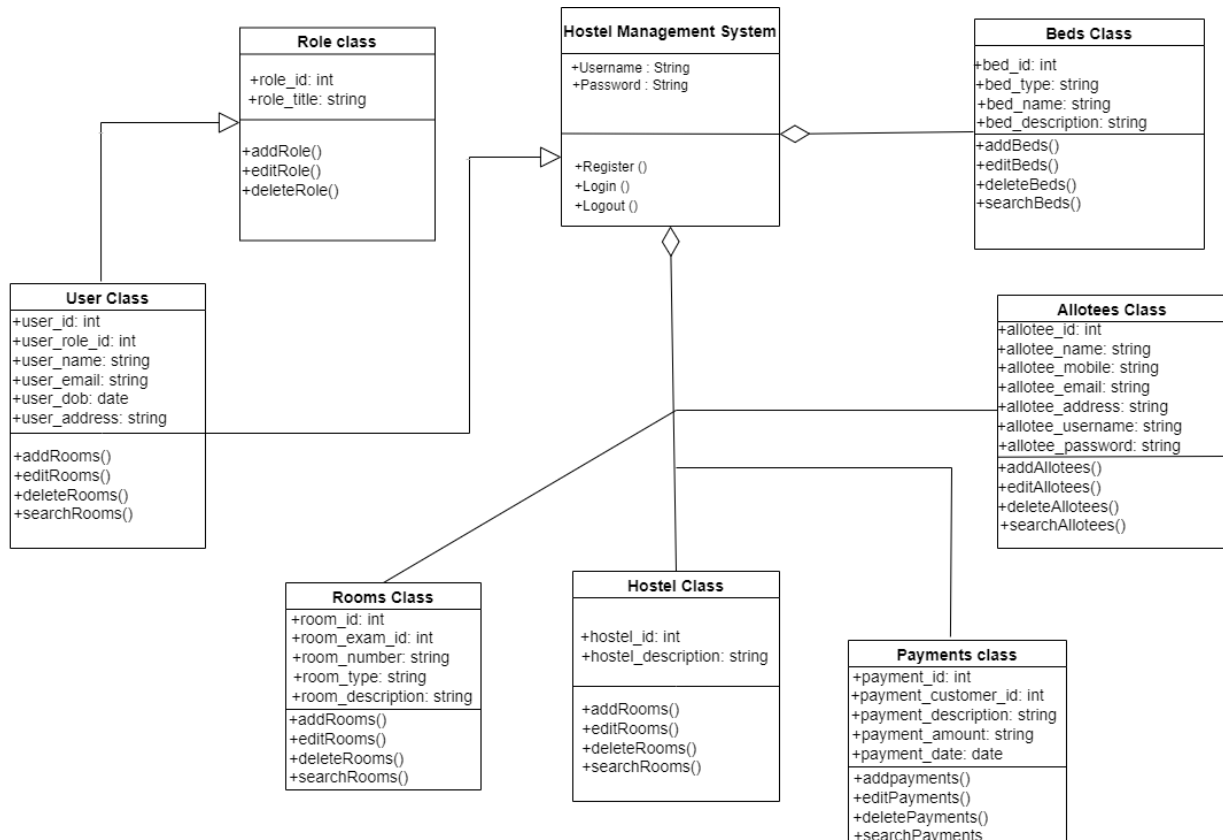
	<p>and password</p> <ol style="list-style-type: none"> 2. User then directs to the hostel room Registration page on selecting. 3. Students pay the room registration fee. 4. Registration completes after paying the fee and room is allocated to students. 5. Then, the person is logged out once the logout button is selected.
Post-Conditions	Login page is back on.
Alternative Flows	<p>Transaction failure.</p> <p>Server may have some issues due to heavy traffic then server doesn't allow all of the users to log in concurrently.</p>
Etc.	

Use Case ID	UC-600
Use Case	Help desk
Actors	(M) Hostler/Admin
Description	Students and admin fill in their details to log in and view the help desk where student requests for help and admin providing the required help.
Pre-Conditions	Login page opens.
Flow of Events	<ol style="list-style-type: none"> 1. Students/Admin login into the portal using respective login details like ID and password. 2. User then directs to the help desk page on selecting. 3. Then students can request for any help regarding hardware problems faced in the hostel room or any help regarding hostile rooms. 4. Once students raise a request for any help

	<p>then admin follow up the request and make sure to solve it by providing the required help.</p> <p>5. Then, the person is logged out once the logout button is selected.</p>
Post-Conditions	Login page is back on.
Alternative Flows	<p>Network Failure.</p> <p>Server may have some issues due to heavy traffic then server doesn't allow all of the users to log in concurrently.</p>
Etc.	

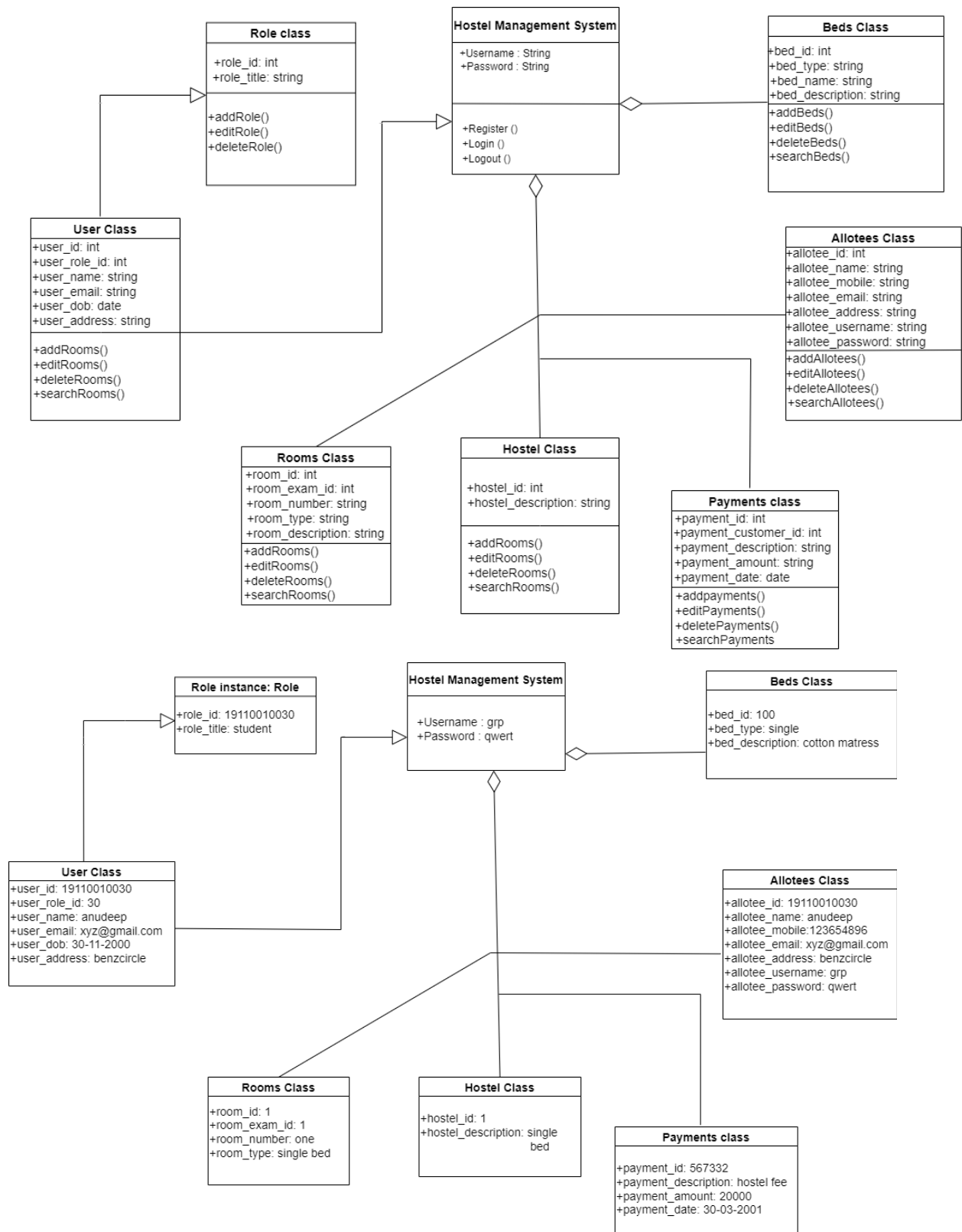
Class diagram:

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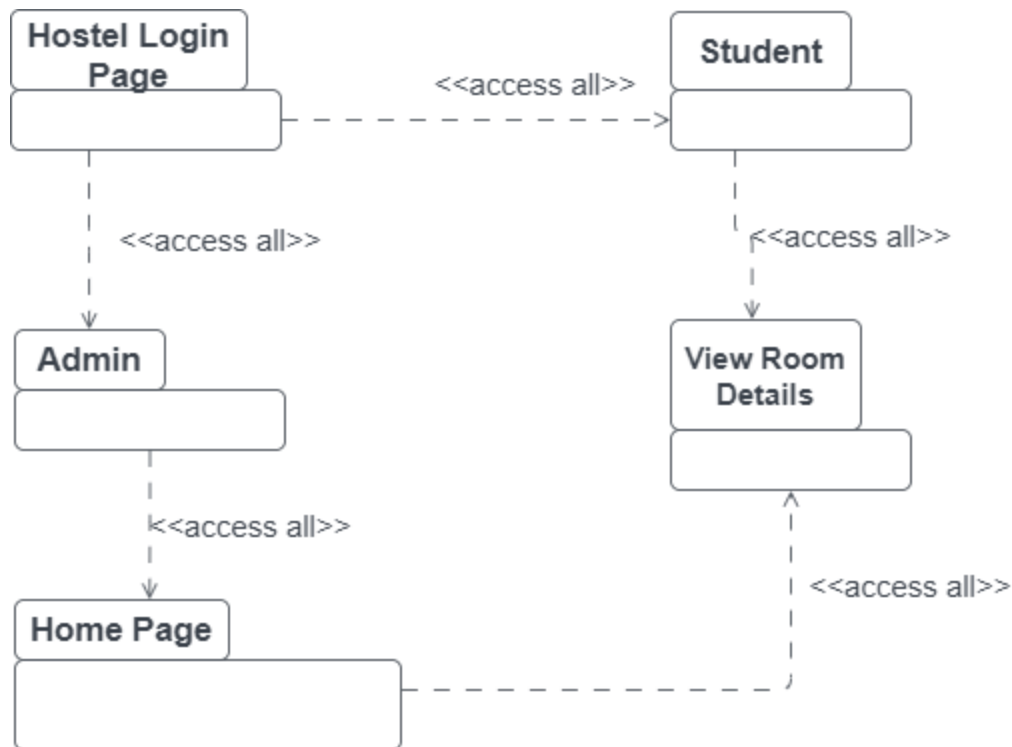
Object diagram:

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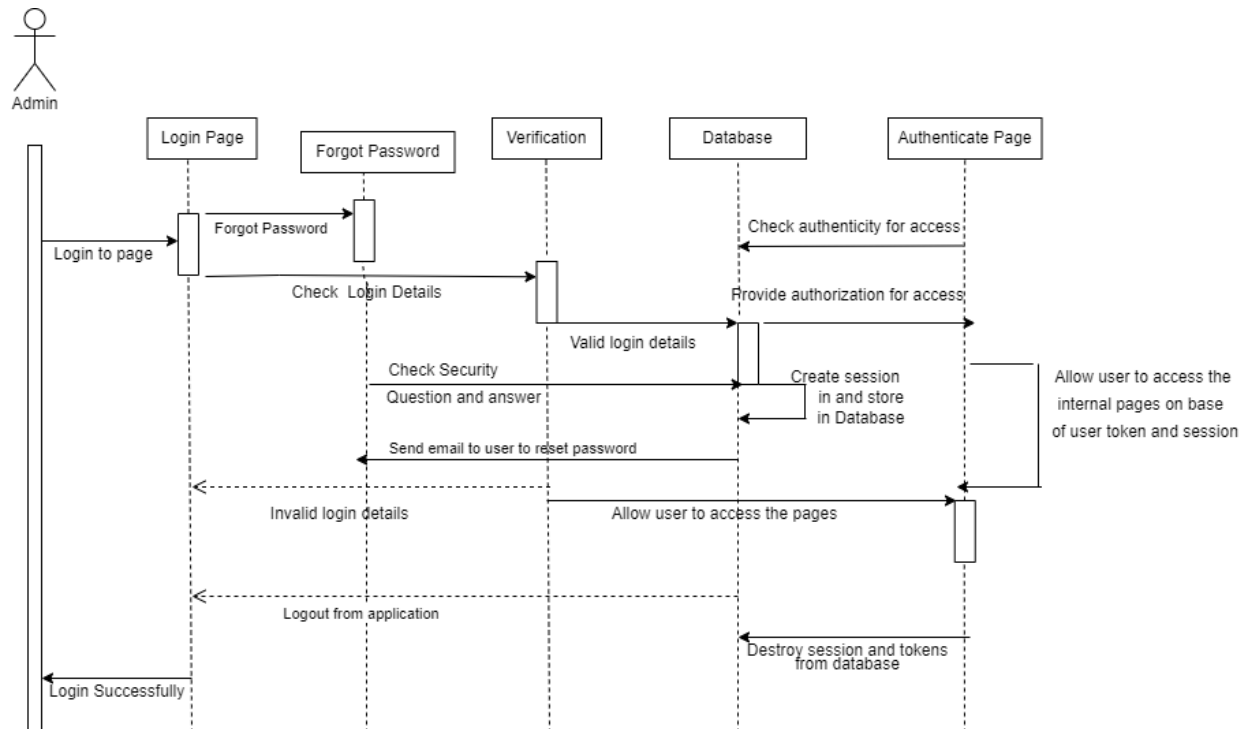
Package diagram:

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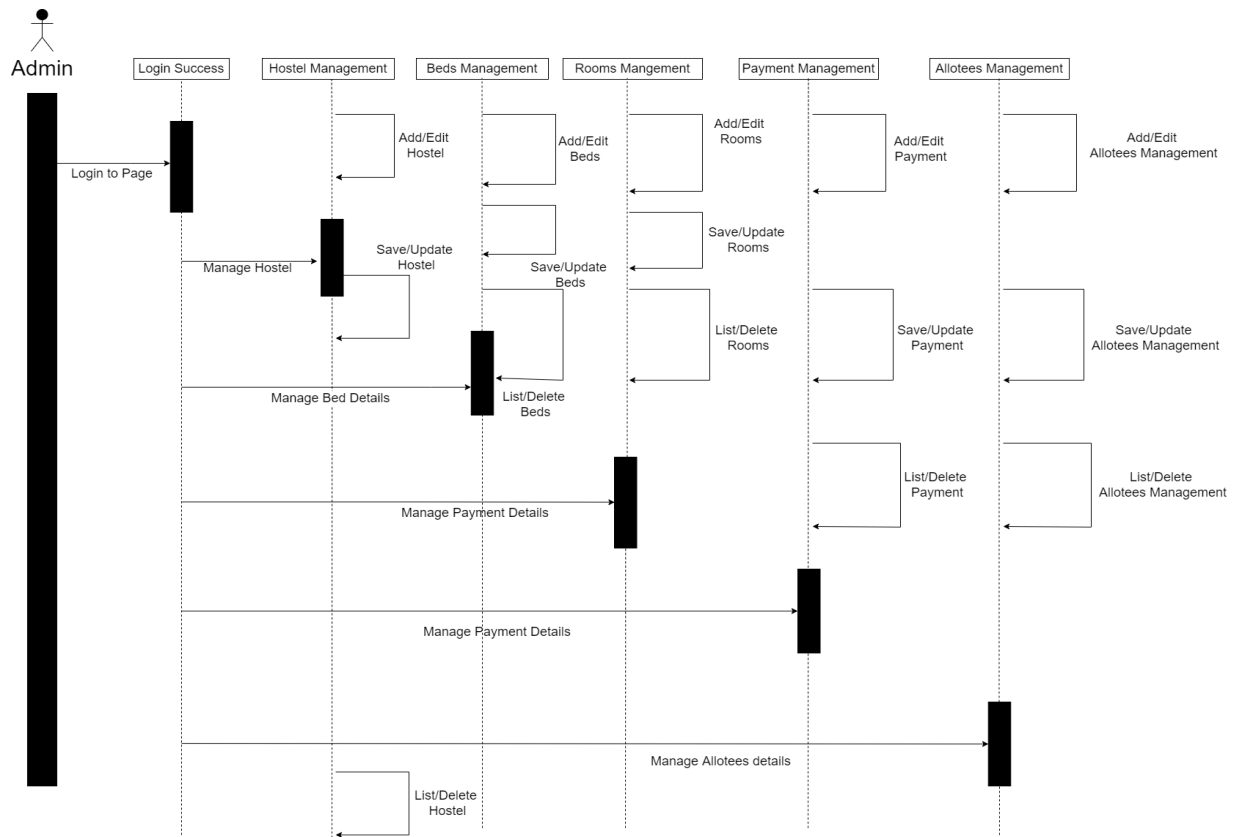


Sequence diagram:

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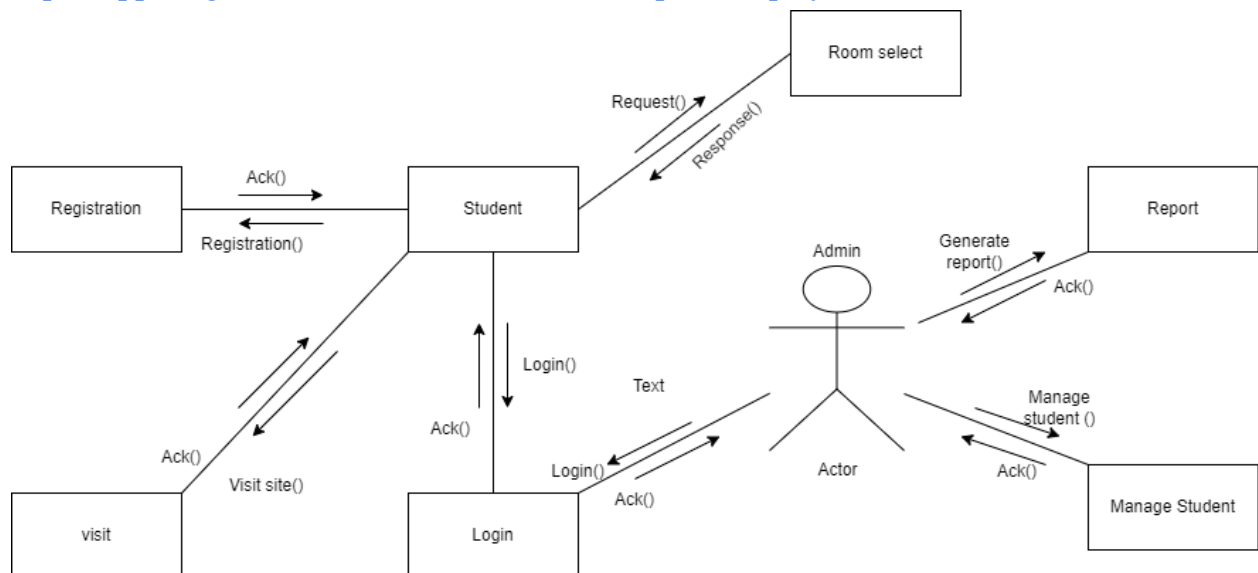


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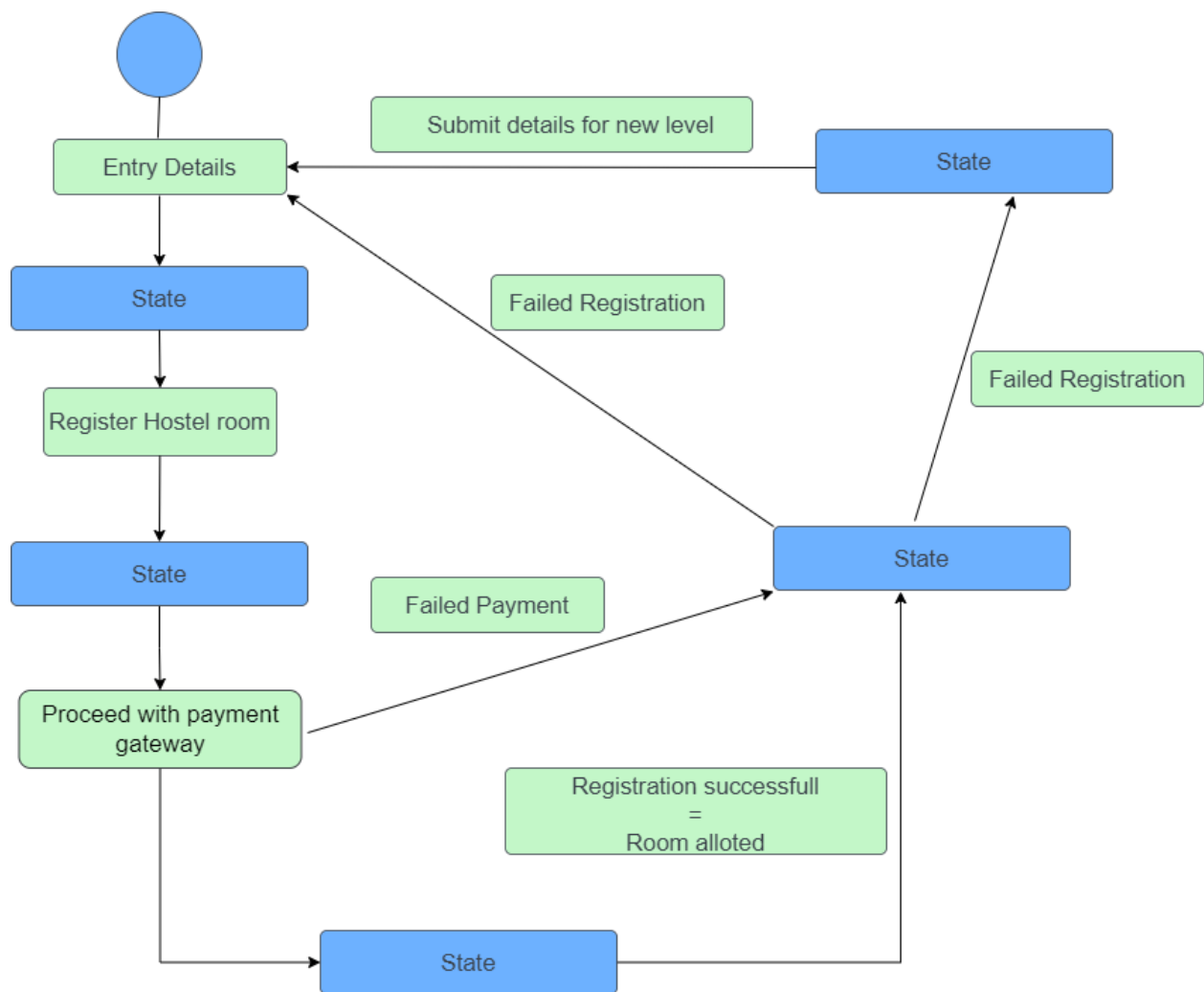
Collaboration diagram:

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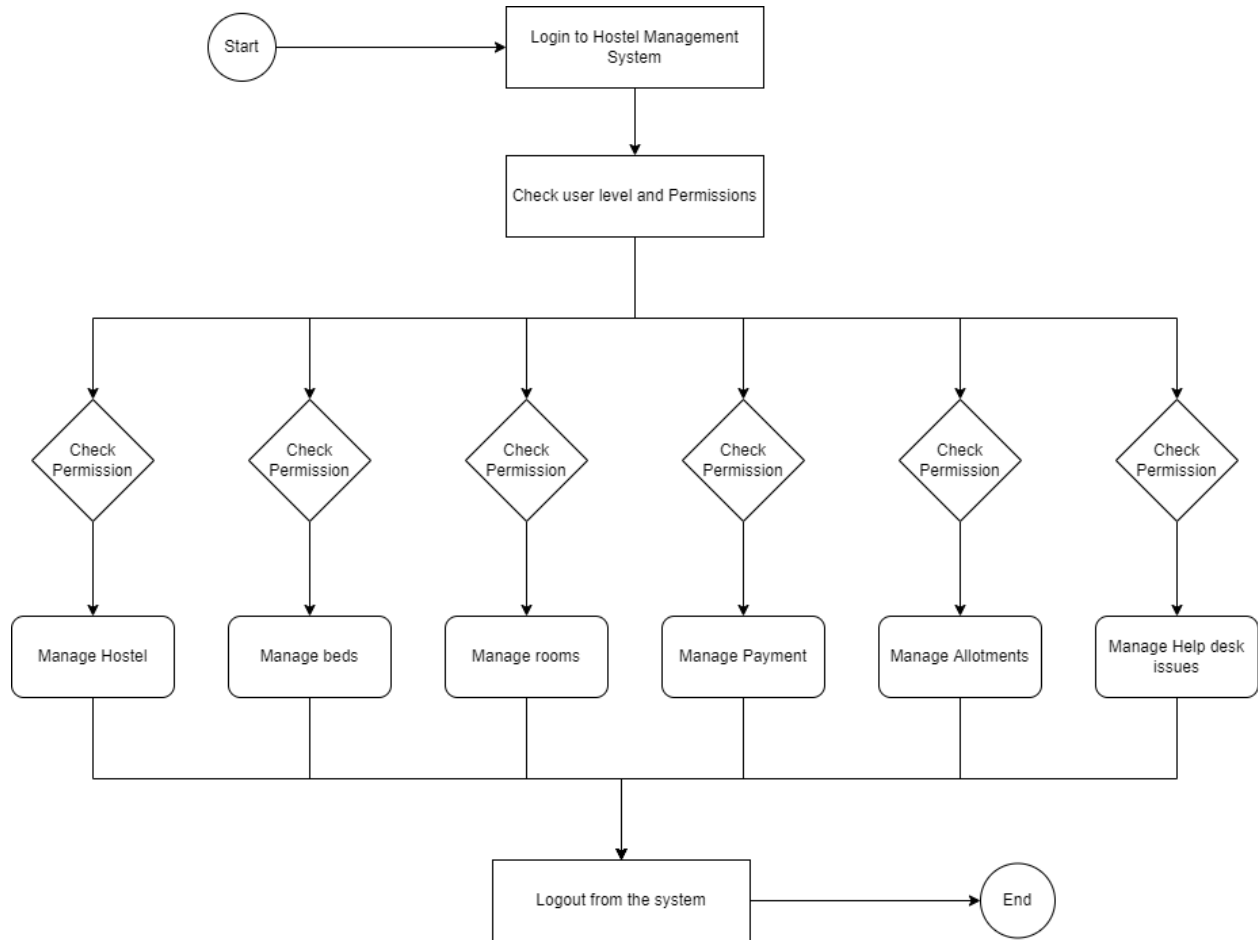
State-chart diagram:

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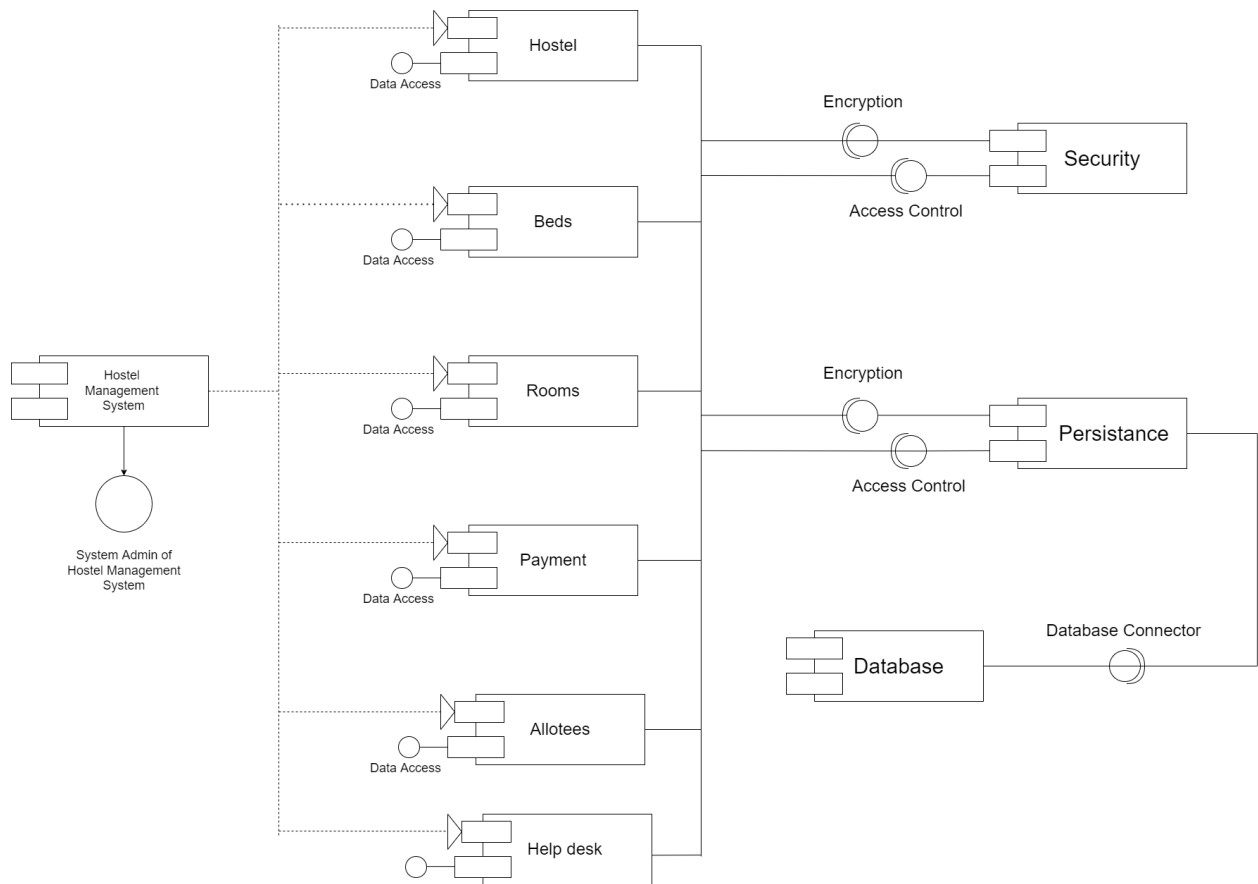
Activity diagram:

<https://app.diagrams.net/?libs=general;uml&src=about#G1CHIJKQXSDrxnD4sIHkgvaYyIHlutxb-A>



Component diagram:

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Deployment diagram:

https://app.diagrams.net/#G1BNcZm_hQrBC_6xjAXnVJEX7VJ8HSe9re

