

Name
No

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SP23 BSE 020

Fully Dressed uses cases:

1. Student Living

Use Case ID: UC-SL-001

Use Case Name: Student Living

Primary Actor: Student

Trigger: System sends a notification or when a student moves in.

Preconditions:

- The student is enrolled at a university or college.
- The student has access to the student housing system (online portal or office).
- Available student accommodations exist for the student's location.

Postconditions:

- The student is successfully placed in a suitable accommodation.
 - The housing office has updated records of student housing assignments. □ Payment and contracts are successfully handled through the system.
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Basic Flow (Main Success Scenario): 1.

Student logs into the Housing Portal:

- The student enters their login credentials (username and password) into the housing portal.
- The system verifies the student's identity based on their university ID.
- The system presents available housing options based on the student's academic year, preferences, and budget.

2. Student searches for accommodations:

- The student filters available housing based on criteria like:
 - Price range
 - Room type (single, shared, suite, etc.)
 - Location (on-campus or off-campus)
 - Amenities (Wi-Fi, study spaces, gym access, etc.)
- The system returns a list of accommodations matching the student's filters.

3. Student selects a housing option:

- The student selects a suitable accommodation from the list.
- The system provides detailed information about the accommodation, including:
 - Rent price and payment schedule
 - Lease terms and duration
 - Photos or virtual tour
 - Reviews from other students

4. Student applies for the accommodation:

- The student submits an application for the chosen accommodation.
- The system requires the student to enter personal information (e.g., emergency contact, ID verification) and possibly a deposit.
- The student can opt to pay an application fee through the portal if required.

5. Housing Office reviews and approves the application:

- The housing office receives the student's application.
- The system notifies the housing office of new applications.
- The housing office reviews the application and confirms that the student meets eligibility criteria.
- The housing office approves the student's application for housing.

6. Student signs the housing contract:

- The system generates an electronic lease agreement with terms and conditions.
- The student reviews and digitally signs the agreement through the portal.
- The system updates the housing office's records, confirming the student's housing assignment.

7. Payment process:

- The system generates a payment schedule for the student, outlining the rent and due dates.
- The student makes an initial payment through the housing portal (this may include a deposit, first month's rent, etc.).
- The system confirms the payment and updates the housing records.

8. Student moves into accommodation:

- The system sends an email or app notification to the student with the move-in date, room number, and instructions for key collection.
 - The student moves into the accommodation on the designated date. ○ The system logs the student's move-in date and updates housing occupancy records.
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Alternative Flows:

1. Application Denied:

- If the housing office denies the student's application (due to eligibility issues, missing documents, or other reasons), the system notifies the student.
- The student may be offered alternative accommodations or given the option to reapply or appeal.

2. Payment Failure:

- If the student's payment fails (due to issues like insufficient funds or incorrect payment information), the system notifies the student immediately.
- The student is prompted to retry the payment or select a different payment method.

3. Student Cancels Application: □ If the student decides to cancel the application after submission, the system allows the student to withdraw the application.

- The housing office is notified of the cancellation, and the accommodation becomes available to other students.
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Extensions:

1. Student requests a Room Change: □ If the student faces issues with the accommodation (e.g., noise, maintenance), they can request a room change through the housing portal.

- The housing office receives the request and processes it according to availability and student needs.

2. Student Requests Maintenance: □ The student can submit a maintenance request through the portal for issues like plumbing or heating problems.

- The system notifies the housing office or facilities team, who will schedule repairs.
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Non-Functional Requirements:

- **Usability:** The system must have a user-friendly interface, especially since many students are unfamiliar with complex systems.
 - **Performance:** The system should be able to handle high traffic, especially during peak housing application seasons (beginning and end of the academic year).
 - **Security:** Sensitive student data such as personal identification, payment details, and housing preferences must be encrypted and stored securely.
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Frequency of Use:

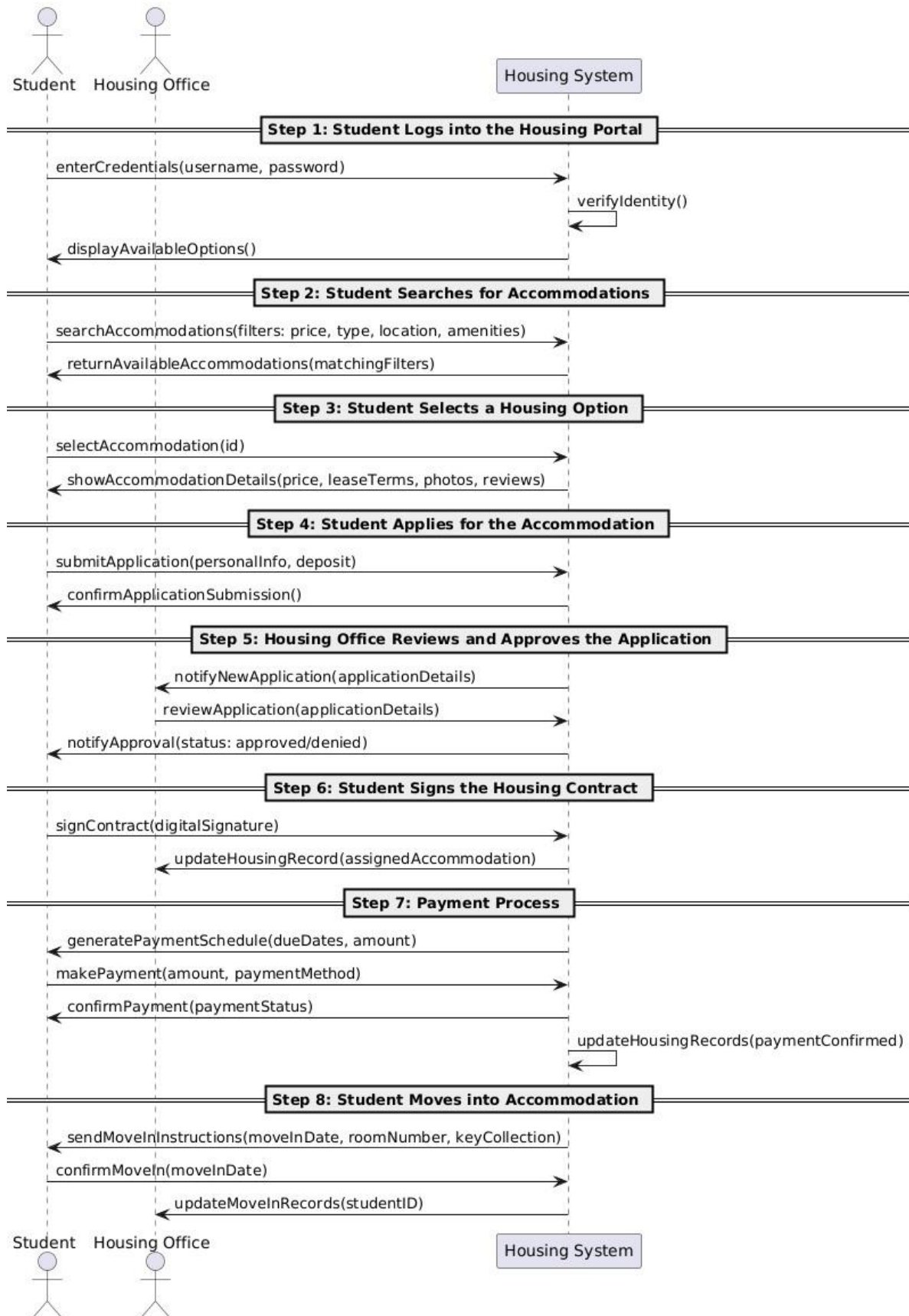
- **High Frequency:** During housing application periods at the beginning of each semester or academic year.
 - **Occasional Use:** Maintenance requests, contract renewals, or payment scheduling.
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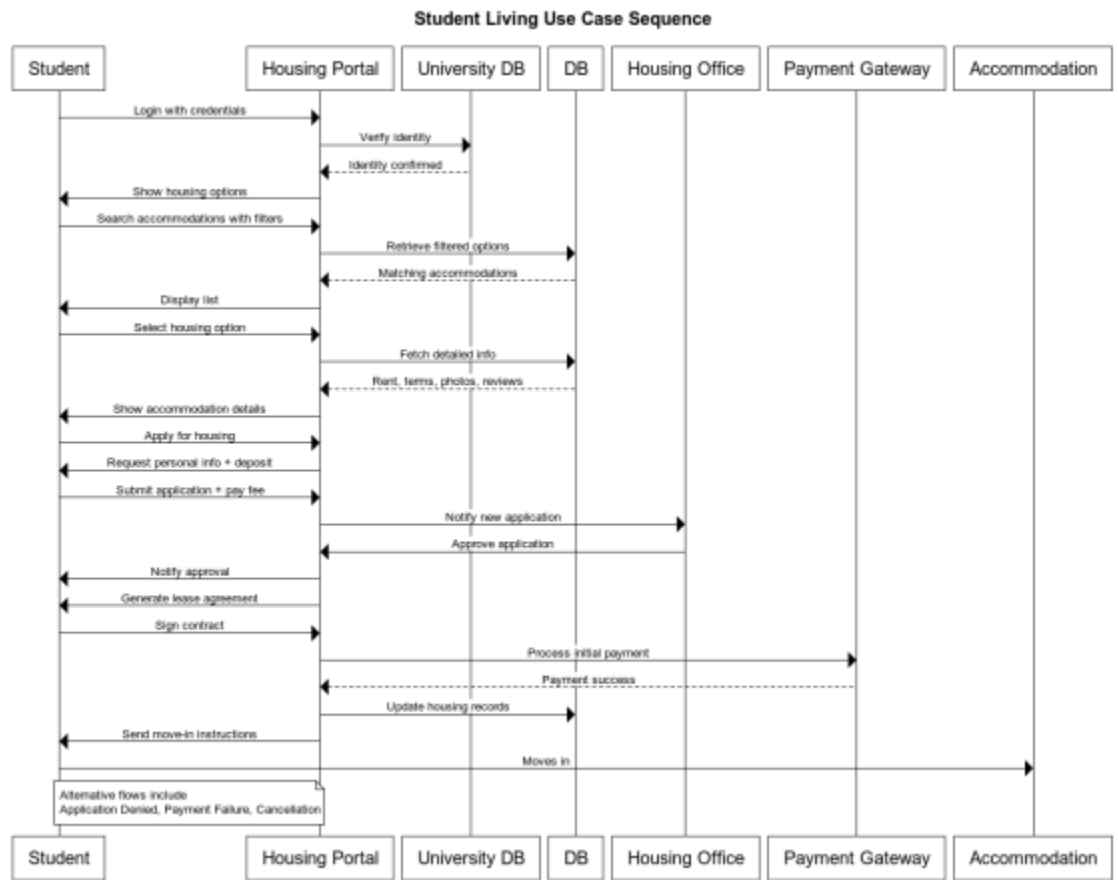
Assumptions:

- Students have internet access and basic computer skills.
 - The housing system integrates with the university's student records system to verify enrollment status.
 - The system supports various payment methods (credit/debit card, bank transfer, etc.).
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SDA Project

SSD:



SDD:

Fully Dressed uses cases:

2. Student Leaving

Use Case ID:	UC-SL-002
Use Case Name:	Student Leaving
Primary Actor:	Student
Trigger:	The student receives an email notification from the housing system, reminding them that their housing contract will end in one week

Preconditions:

- The student has received permission or is obligated to leave the accommodation (end of semester, graduation, etc.).
- The student is aware of the move-out date and related deadlines.
- The housing portal is accessible to the student for processing their move-out details.

Postconditions:

- The student has successfully vacated the accommodation.
 - The housing office has completed the move-out procedures and updated the housing records.
 - Any outstanding payments or damages have been resolved or accounted for. □ The accommodation is available for new tenants.
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Basic Flow (Main Success Scenario):

1. Student Logs into Housing Portal:

- The student logs into the housing portal using their student credentials. ○
The system verifies the student's identity and shows the current housing assignment.

2. Student Initiates Move-Out Process:

- The student clicks on the "Move-Out" button or tab within the portal.

- The system prompts the student with move-out instructions and deadlines (e.g., return keys, clean the room, etc.). ○

3. System Notifies Student of Requirements:

- The system provides the student with a checklist for vacating the accommodation, including:
 - Cleaning instructions (e.g., vacuuming, trash removal).
 - A move-out inspection date.
 - Key return process.
 - A reminder to settle any unpaid rent or fees.
 - An option to submit a maintenance request if there are any issues with the room (e.g., broken furniture, plumbing issues).

4. Student Schedules Move-Out Inspection:

- The student schedules a move-out inspection with the housing office or property management through the portal, selecting a time that fits their schedule. ○ The system confirms the inspection appointment and sends a reminder to the student.

5. Student Prepares for Move-Out:

- The student packs their belongings and cleans the room, following the provided guidelines. ○ The student ensures that all furniture and appliances are in good condition or submits a maintenance request if necessary.

6. Move-Out Inspection Occurs:

- The housing office or property manager conducts a room inspection.
- The system generates an inspection checklist that is reviewed during the inspection.
- If the room is in good condition, the inspection is marked as "Passed." ○ If damages are found, the system generates a report and an estimate for repairs.
- The system records the findings and sends a notification to the student with the inspection results.

7. Student Settles Financial Obligations:

- The system checks if the student has any outstanding payments (e.g., rent, utilities, damage fees).
- If there are any unpaid fees, the system presents the student with the outstanding balance.
- The student makes the final payment for any outstanding charges through the portal. ○ The system confirms the payment and updates the student's account.

8. Key Return Process:

- The system provides the student with instructions on how to return the accommodation keys (e.g., drop-off location, office hours).
- The student returns the keys to the designated location.
- The system logs the return of the keys and marks the move-out as complete.

9. Student Confirms Move-Out:

- Once the inspection is passed and any fees are settled, the student confirms their departure through the portal.
- The system sends a final confirmation message to the student, informing them that their housing contract has ended and their move-out is complete.

10. Accommodation Availability Updated:

- The system updates the housing records, marking the accommodation as available for new tenants.
- The student's record is updated to reflect their move-out status.

Alternative Flows:

1. Damages Detected During Inspection:

- If the housing office or property manager detects damages (e.g., broken furniture, stained carpets), the system generates a damage report and an estimate for repairs.
- The student is notified about the damages, and a charge is applied to their final bill.
- If the student disputes the charges, they can submit a request for further review via the portal.

2. Payment Failure: □ If the student is unable to pay any outstanding fees (e.g., rent or damage charges), the system sends a reminder email.

- The student may be given additional time to pay or offered a payment plan if applicable.
- The housing office may hold the student's security deposit or take other actions to ensure payment.

3. Student Cancels Move-Out:

- If the student changes their mind and decides to stay longer in the accommodation (with approval), they can cancel the move-out process through the portal.
 - The system updates the student's housing status and notifies the housing office of the cancellation.
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Non-Functional Requirements:

- **Usability:** The portal should have an intuitive user interface for students, ensuring they can easily complete all necessary tasks (move-out, payment, inspection).
 - **Performance:** The system must handle peak move-out periods without delays or crashes.
 - **Security:** The system must ensure that all student data, especially financial transactions and room inspection details, is kept secure and private.
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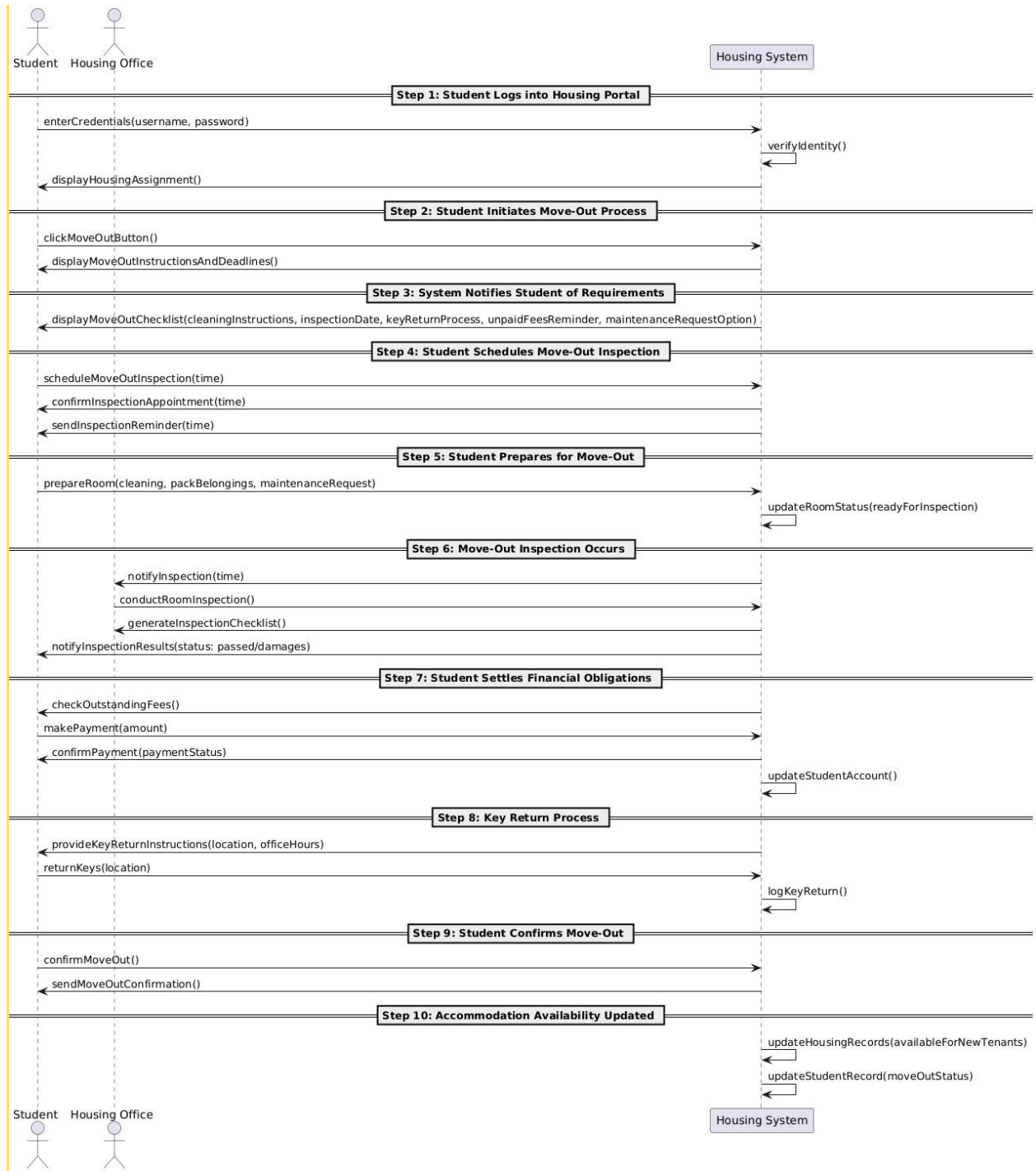
Frequency of Use:

- **High Frequency:** Typically occurs at the end of each academic term (semester or year), especially during graduation, transfer, or other terminations of housing contracts.
 - **Occasional Use:** Student requests for room changes, extensions, or early move-out due to unforeseen circumstances.
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Assumptions:

- The student has completed all prior requirements (e.g., rent payment, accommodation contract) before initiating the move-out process.
 - The housing office provides adequate information on how to properly vacate the accommodation.
 - The student is not leaving mid-term without prior approval.
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SSD:



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