Use case name: Search for roommates	ID:1	Importance Level: Average
Primary actor: Student	**Use case type: detail**	

Stakeholders and Interests:

Student: who wants to look for other students with a particular characteristics

Brief Discerption: The use case shows how a student looks for its roommate preferences

Trigger: Student clicks on searching section of the UI

Type:External

Relationships:

Association:

Include:

Extend:

Normal flow of events:

1.student hits search button, with specifying his preferences

2.A query runs on the server to pick up all the data

3. The data is structured, and returned in another page to the user

Subflows:-

Alternate/Exceptional Flows:-

Use case name: Join dormitory group	ID:2	Importance Level: High
Primary actor: Student	**Use case type:detail**	

Stakeholders and Interests:

Student: who wants to join his preferred group and form a room

Brief Discerption:

The use case shows how students interact with the system in order to join a group of students for forming a room

Trigger: Hitting the join section of the UI

Type: External

Relationships:

Association:

Include:

Extend: Dis-joining

Normal flow of events:

1. **After a student has formed a group, other students hit the join section**
2. **Enter name of the group or any other characteristic, perhaps name of the students**
3. **After the result has been displayed, they either approve or decline**

Subflows:

Alternate/Exceptional Flows:

Use case name: Login	ID:3	Importance Level: High
Primary actor: Student, Admin	**Use case type: detail**	

Stakeholders and Interests:

Student: who wants to enter his Username and Password in order to enter its dashboard

Admin: who wants to enter his Username and Password in order to enter administration dashboard

Brief Discerption:

The use case shows how authentication of the users is happening before primary functionalities of the system occur

Trigger: Hitting the login section of the UI

Type: External

Relationships:

Association:

Include:

Extend:

Normal flow of events:

1. **User, either student or admin, clicks on the login section of the UI.**
2. **Hitting the Go button will send the username and password for check to the system**
3. **If everything works fine, users are shown their dashboard**

Subflows:

Alternate/Exceptional Flows:

1. **If the user enters several wrong passwords, the system does not allow him entering for 30 minutes.**

Use case name: Edit personal information	ID:4	Importance Level: Low
Primary actor: Student, Admin	**Use case type: detail**	

Stakeholders and Interests:

Student: who wants to create a profile for himself

Admin: who wants to manage the profiles, editing them if required

Brief Discerption:

Users have the chance to edit their personal information and update their profile as decided

Trigger: moving to the Edit section

Type: External

Relationships:

Association:

Include:

Extend:

Normal flow of events:

Subflows:
Alternate/Exceptional Flows:

1. **If the data entered for someone is not accepted then the page pops up notifications**

Use case name: Make dormitory group	ID:5	Importance Level: High
Primary actor: Student, Admin	**Use case type: detail**	

Stakeholders and Interests:
Student: Who fills out forms to specify the room and the roommates
Admin: who edits forms of room requests or make new forms himself

Brief Discerption:
The use case shows how users create the room groups

Trigger: turning to create room group
Type: External

Relationships:
Association:
Include: Choosing roommates, searching students
Extend: Deleting or editing group members

Normal flow of events:
1. **After turning to make the dormitory group page, students face a form**
2. **Details of the room, including name, number, floor, students, their ID is included in the form**
3. **Hitting the submit button, the data is registered in databases**

Subflows:
Alternate/Exceptional Flows:

1. **If the characteristics of the room specified is already registered, then such option would not be included in the form**

Use case name: Delete the dorm group	ID:6	Importance Level: High
Primary actor: Student, Admin	**Use case type: detail**	

Stakeholders and Interests:
Student: who wants to drop his group
Admin: who wants to drop specific groups

Brief Discerption:
This use case shows how groups are dropped, either by students themselves or by an upper decision maker, namely Admin.

Trigger: Turning to deleting section
Type: External

Relationships:
Association:
Include:

Extend:

Normal flow of events:
1. **The user opens the webpage of the deleting room section**
2. **There are certain historical data on the room choices shown, and user chooses and confirms deletion of the group**

Subflows:
Alternate/Exceptional Flows:

Use case name: participate in roommate matching process	ID:7	Importance Level: High
Primary actor: student	**Use case type: detail**	

Stakeholders and Interests:
Student: who wants a fair, logical, and compatible matching process

Brief Discerption:
In this case, internal mechanisms try to match student with each other considering various characteristics including, major, and place of born, age.

Trigger: Completion of the student profile
Type: Internal

Relationships:
Association:
Include: editing or confirming
Extend:

Normal flow of events:
1. **Whenever the student profile is complete and he is not part of any group, he will be part of the matching the process**
2. **The process runs internally, and the results are shown in the page regarding the students with the closest match**

Subflows:
Alternate/Exceptional Flows:

Use case name: Dis-joining	ID:8	Importance Level:
Primary actor: student	**Use case type: detail**	

Stakeholders and Interests:
Student: who wants to leave a group

Brief Discerption:
This case shows how a student can dis-join after joining a group

Trigger: turning to the disjoin page
Type: External

Relationships:
Association:
Include:
Extend:

Normal flow of events:
1. **User clicks on the section**
2. **Confirms cancelation of his membership in the group**
3. **The user is deleted and database is updated**

Subflows:

Alternate/Exceptional Flows:

Use case name: deleting or grouping the group members	**ID:9**	**Importance Level: High**
Primary actor: student, admin	**Use case type:detail**	

Stakeholders and Interests:

Student: A student wants to unit others or delete the whole group

Admin: An admin wants to unit students or delete the whole group

Brief Discerption:

This use case shows how deleting or grouping of the students are being handled by students or admins

Trigger: turning to the page

Type: External

Relationships:

Association:-

Include:-

Extend:-

Normal flow of events:
1. **The user turns to the page**
2. **Chooses between the students for deleting**
3. **Hit the delete button and then the student will be deleted from the group**
4. **User, if admin of the group, have access to deletion of the group by hitting the delete button**

Subflows:

Alternate/Exceptional Flows:

Use case name: Choosing the roommates	ID:10	Importance Level: High
Primary actor: student, admin	**Use case type: detail**	

Stakeholders and Interests:

Student: wants to choose between enrolled students of the current semester

Admin: wants to do the process instead of the students for adminstarial purposes

Brief Discerption:
If the students know each other, they would be able to make their groups and find the roommates independently

Trigger: turning to the page
Type: external

Relationships:
Association:
Include:
Extend:

Normal flow of events:
1. **User hits the button to display the students**
2. **Chooses between them**

Subflows:

Alternate/Exceptional Flows:

Use case name: editing or confirming	ID:11	Importance Level: High
Primary actor: student	**Use case type: detail**	

Stakeholders and Interests:
Student: wants to confirm the automatic assignment of the roommates

Brief Discerption:
The user needs to confirm or edit the automatic assignments of the roommates

Trigger: Turning to the specified page
Type:External

Relationships:
Association:
Include:
Extend:

Normal flow of events:
1. **After the assignment is complete, the user has to either confirm or edit some parameters for reassignment**

Subflows:

Alternate/Exceptional Flows:

Use case name: managerial reports	ID:12	Importance Level: average
Primary actor: admin	**Use case type: detail**	

Stakeholders and Interests:
Admin: admins would like to receive time to time reports

Brief Discerption:

Admins need reports in order to make decisions, either operational or tactical, or strategic

Trigger: reaching a time

Type: Internal

Relationships:

Association:

Include: Filtering data

Extend:

Normal flow of events:

1. **As soon as a particular time is reached, system generates reports automatically**

Subflows:

Alternate/Exceptional Flows:

Use case name: Filtering data   ID:13   Importance Level: average

Primary actor: admin   **Use case type: detail**

Stakeholders and Interests:

Admin: wants to have only managerial data

Brief Discerption:

With the decision of the admin, only specific data is presented in the reports

Trigger: change in preferences

Type: internal

Relationships:

Association:

Include:

Extend:

Normal flow of events:

1. **Specific pre-defined queries happen on the server side**

Subflows:

Alternate/Exceptional Flows:

Use case name: import data   ID:14   Importance Level: average

Primary actor: admin   **Use case type: detail**

Stakeholders and Interests:

Admin: admin import data from various sources including excel files, database files

Brief Discerption:

In order to fill the database, admin may consider importing the data using various means

Trigger: turning to the import page

Type: external

Relationships:
Association:
Include:
Extend: import one by one, import via list

Normal flow of events:
1. **After turning to the page of importing data, admin chooses between entering data one by one, or choose to select files from which data needs to be imported**

Subflows:

Alternate/Exceptional Flows:

Use case name: import one by one	ID:15	Importance Level: low
Primary actor: admin	**Use case type: detail**	

Stakeholders and Interests:
Admin: who wants to add student details one by one

Brief Discerption:
In order to add students on a case basis admin need to enter data via a one by one option

Trigger: selecting the one-by-one option
Type: external

Relationships:
Association:
Include:
Extend:

Normal flow of events:
1. **Admin selects the one-by-one option, fills all the required fields, and upload the requirements if any, then select submit button**

Subflows:

Alternate/Exceptional Flows:

Use case name: import via list	ID:16	Importance Level: average
Primary actor:admin	**Use case type: detail**	

Stakeholders and Interests:
Admin: who wants to bulk insert the data into the database

Brief Discerption:
In order to be parsimonious in time, the admin might decide to insert the data via excel files, database files, or exports from other systems

Trigger: turning to the import via list section
Type: external

Relationships:

Association: Include: Extend:

Normal flow of events:

1. **After turning to the specified section, admin selects the files he decided to import, then select submit.**

Subflows:

Alternate/Exceptional Flows:

Use case name: add or remove rooms	ID:17	Importance Level: average
Primary actor: admin	**Use case type: detail**	

Stakeholders and Interests:

Admin: who wants to activate new options or deactivate them

Brief Discerption:

In order for the admins to have a comprehensive management on the number of rooms available for students, this use case provides managerial access.

Trigger: turning to the page

Type: external

Relationships:

Association:

Include:

Extend: edit room characteristics

Normal flow of events:

The admins turn to the page, there are options to view the current rooms available, edit them, or delete them

Subflows:

Alternate/Exceptional Flows:

Use case name: edit room characteristics	ID:18	Importance Level: low
Primary actor: admins	**Use case type: detail**	
Stakeholders and Interests: Admin: who wants to edit the characteristics of the rooms		
Brief Discerption: There are certain options that can be either added or deleted from the normal rooms		
Trigger: turning to the section Type: external		
Relationships: Association: Include: Extend:		
Normal flow of events: The admins can edit the features of the rooms or let them be the standard type of room		
Subflows:		
Alternate/Exceptional Flows:		

Use case name:	ID:19	Importance Level:
Primary actor:	**Use case type:**	
Stakeholders and Interests:		
Brief Discerption:		
Trigger: Type:		
Relationships: Association: Include: Extend:		
Normal flow of events:		
Subflows:		
Alternate/Exceptional Flows:		

Use case name: add or remove dorms	ID:20	Importance Level: high
Primary actor:admin	**Use case type:detail**	
Stakeholders and Interests: Admin: who can delete or add new dormitories		
Brief Discerption: Admins can delete or add dormitories in their strategic roles		
Trigger: turning to the page		

Type: external	

Relationships:
Association:
Include:
Extend: edit dorm characteristics

Normal flow of events:
New buildings can be added into the dormitory system

Subflows:

Alternate/Exceptional Flows:

Use case name: edit dorm characteristics	ID: 20	Importance Level: high
Primary actor: admin	**Use case type:detail**	

Stakeholders and Interests:
Admin: who wants to add or remove some features from each dormitory

Brief Discerption:
Some features including, some facilities can either be added or removed from each dormitory building

Trigger: turning to the section
Type: external

Relationships:
Association:
Include:
Extend:

Normal flow of events:
There are certain facilities that can be added to each dormitory, in order for that, a list of dormitories in function is shown to the admin, and he can see all features of each.

Subflows:

Alternate/Exceptional Flows: