Roll: 379

Name: Shah Sultan.

ThesisHub: Automated thesis Supervisor Allocation and Management System.

Use Case List

1. User Registration

2. Group Formation

3. CGPA ~~Submission~~ Submission & Group Ranking

4. Submit Teacher Preferences

5. Supervisor Allocation

6. Task Assignment

7. Task Submission

8. Task Evaluation

9. Final Thesis Marking

10. Notification System

11. Admin Dashboard & Manual Override.

Name: Shah Sultan
Roll: 379

~~# Use case list.~~

Use Case 1: User Registration & Login.

Actor: Student, Teacher, Chairmain

Precondition: User not logged in

Postcondition: User is authenticated and redirect to their dashboard.

Description: Handles registration, login, and role based access.

User Scenrio:
* A student signup using their ID and password.
* A teacher registers and awaits admin approval
* Chairman logs in with admin credentials.

Use case 2: Group Formation

Actor: Student

Precondition: student is logged in and not already in a group.

Postcondition: Group is created and saved in the system.

Description: A student create a group and sends invite to another student.

User scenario:
* A student send a group request to student B
* Student B accepts and the group finalized.

Use case 3: CGPA submission and Group ranking.

Actor: Student, Chairman

Precondition: Group is created

Postcondition: Group CGPA is calculated and stored

Description: Group CGPA (higher CGPA among two) is used for sorting

User scenario:
* Group CGPA is auto-calculated from student profile
* Chairman views the sorted list

Name: Md. Khaled Mahmud Jon
Roll: 391

Use Case 4: Submit Teacher Preferences

Actors: Student

Precondition: Group is created and logged in

Postcondition: Preference list is saved

Description: Groups choose up to 3 teachers in ranked
order.

User Scenario: Group submits a preference list of teachers
for thesis supervision

Use Case 5: Supervisor Allocation

Actors: Chairman

Precondition: Groups and preferences exist

Postcondition: Supervisors are assigned respecting quota

Description: Automatically or ~~use~~ manually assigns teacher
to groups

User Scenario: . Group 1 (top CGPA) is matched to Teacher
A (available)
. Group 2 is assigned to next preferred
teacher

Use Case 6: Task Assignment

Actors: Teacher

Precondition: Group is assigned to the teacher

Postcondition: Task is visible to the group

Description: Teachers create thesis tasks with instruction and deadlines.

User Scenario: Teacher assigns "Literature Review" task with ~~dedline~~ deadline.

Name: Tawhidul Islam

Roll : 395

use case 7: Task Submission

- Actors : Student
- Precondition: Task is assigned
- Post condition: Task is submitted and stored
- Description: students submit deliverables for evaluation

- User scenario:
  - Group uploads report before deadline

Use Case 8 : Task Evaluation

- Actors : Teacher
- Precondition: Group has sombmitted a task
- Post Condition : Marks and feedback saved
- Description : Teacher evaluates work and assigns scores

- User Scenario:
  - Teacher gives 80/100 for submitted task

Use case 9: Final Thesis Marking

- Actors: Teacher
- Precondition: Final evaluation ready
- Postcondition: Final mark saved
- Description: Teacher submits group's final mark out of 100

- User Scenario:
    - Teacher finalizes mark: Group gets 85/100.

Name: Abdullah Nazmus-Sakib
Roll: 383

Use Case 10: Notification System

* Actors: All
* precondition: Trigger event(task assigned, group assign
* postcondition: Notification sent to relevent users
* Description: Notify users about status updates

* User Scenario: ① Student is notified when teachers
  assigns new task
  ② Teacher is notified when student
  group assign or student submit
  any task.

Use Case 11: Admin Dashboard and Manual Override

* Actors: Chairman
* precondition: System in operational state
* post_condition: Admin can override assignments
* Description: Chairman can reassign Supervisory,
  manages users

⊛ User Scenario: chairman reassigns group 'X' to Teacher 'Y' in special case—

Summary Table of use cases:—

Use Case Name	Actors	precondition	postcondition
User Registeration and Login	Student, Teacher, Chairman, Admin	Not Logged in	Redirect to dashboard
Group Formation	Student	Logged in, not in group	Group created
CGPA Submission and Ranking	Student, Chairman	Group created	Group sorted by CGPA
Submit Teacher preference	Student	Group formed	preference list saved
Supervisor Allocation	Chairman	preference Submitted	Supervisor assigned
Task Assigment	Teacher	Group assigned	task visible to group
Task Submission	Student	Task exist	Submission saved
Task Evaluation	Teacher	Task Submitted	Feedback and marks saved
Final thesis Marking	Teacher	Task evaluted	final marked saved
Notification System	All	Trigger Event	Notification sent
Admin Override	Chairman	Allocation done	

Use Case diagram:

Actors: Student, Teacher, Chairman, Admin

Use Cases:
- Registeration and login
- Group Formation
- Submit Teacher Preference
- Task Submission
- CGPA submission and Ranking
- Admin Override
- Task Assignment
- Task Evaluation
- Final Thesis Marking
- supervisor allocation
- Notification system
- Admin override