#### Lab Report: 02

Title: SE and ISD Lab

Course title: Software Engineering and Information System Design Laboratory
Course code: CSE-404
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Module 1: Authentication & user Monogement

submodule 1.1 Registration & Login

usen scenario; students, teachers, and the Chainman log in using their credentials, Teachen/student must register with 1d an Role

Usen Stony

I am's a student so that I want to negister and log in with my ID, so that I can acress the platform to form groups and submit preference.

I am a teacher, so that I want to sign up and await admin approval so that I can supervises thesis groups once approved

I am the chairman, so that I wont to log in securely, so that I can monition everything. everything ??

submodule 1.2 : Role Bosed Access control
user scentio : Based on their role
user are given access different
feature

Usen Story

MATTUR HAHR LOUGH

I am a teacher, so that I want to access only the groups assigned to me, so that I can manage them.

I am a Student, so that I want to see only my own group of information.

See only my own group of information.

So that my student experience is

secure and focused.

Module 2: Giroup Management

Submodule 2:1: Giroup Formation

Usen scentrios Students create on Join

usen scentrios Students create on Join

group with one parelner, nestricted

one group per person.

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I am a student so that I want to group by inviting my peen, so that we can apply together for thesis supervision.

I am a student, so that I wan to view and confirm my group partner.

submodule 2.2: CGPA Management

user scentio; The system uses higher CGPA of two members to sort the group for supervisor & allocation,

usen stony:

I om the Chairman, so that I want to see a sonked list of student group by highest CGPA, so that I can assign supervisors fainly.

I am a student, so that I want to user Story submit a list of preferred teachers, so that we have better chance of being assigned to desined supervison.

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I am the allaman so they

tropies to 421 balnoz 1 593

Md. Khaled Mahmud (391)

Module 1-4 Name: Supervisor Allocation system (Admin)

Submodule 4.1: Group Sorting

User Scenario.

Groups are sorted by CGIPA automatically for fair assignment

### User story.

I am the Chairman so that I want to automatia sort groups based on CGIPA, so that top performing students gets priority in allocation.

submodule 4.2: Performance Matching & Assignment

Just seenario? There of thow I took as

Each group is assigned supervisors a teacher from their perforence list, subject to teacher capacity (max 2 groups)

User story:

I am the chairman,

so that I want to assign supervisors to groups

based on perference and abili availability. so that the process is efficient and fair for all have mortsonly

Submodule 4:3: Contetraint Handling (2 groups Max per Teacher)

# 

A Teacher can supervise a maximum of 2 groups. If their quoter is filled, the system checks the next preference.

## users storey:

I am the chairman,

so that I want to ensure each teacher is assigni no more than 2 groups

corneity (miax a groups)

sen int town I tout or

so that workload its evenly distributed

Module 5: Thesis Task management Submodule 5.1: Task Assignment (Teacher)

Usero Scentrio: Teachers assign tooks with instructions and dealines to their groups.

# User story:

I am a student Teacher,

so that I want to create thesis - boossed tasks with deadlines.

so that my students can work step by step mos on their research se of from I from os

Submodule 5.2: Took Submission (student)

#### User Sunarios

Students submet responses/ files for the assigned tearks within the deadline. User story;

I am a student so that I want to submit completed thesis tasks anline; Abdullahrfffful 19,2025, 17:33 visor can evaluate my progress.

# Submodule 5:3: Progress Tracking

User Scenario:

students and Teachers can track task progress See pending work, and receive status updates.

User Story;

I am student,

so that I want to track the progress of my tensks so that I can meet deadlines effectively.

1 am to teacher, streets for test o

so that I want to see which groups have complete which testes,.

User Surarior

so that I can monitor their involvement and timeline.

Module 6: Evalution 8 Marks Management

submodule 6.1: Took Evaluation (Teacher)

User Scenapio:

Teachers provide marks and feedback for each submitted test.

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# User story:

I am a teacher,

so that I want to evaluate submitted tarks and give scores.

so that students get timely feedback.

Submodule 6.2: Final Mark Entry

User Scenerio;

At the end of the thesis cycle, the teacher enters the final mark for the group (out of 10)

# User story:

I am a teacher,

nork for my groups

so that it can be used for modernic

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Module 7: Notification and Communication System

User Scenario: Notify students and teachers about

tosu updates, dealines, assignment confimations, and evaluations.

Usen Story: -

I am a student,

30. that, I want to get notified when my group is assigned to a teacher,

So that, I can Stant my thesis work immediately

I am a teacher,

30 that, I want to be notified of new task

30 that, I can review them on time-

Everest

Module-8: Chainman Doshboard (Admin pannel)
User Scenario: The chairman can oversee all
groups, view teacher workloads.

Usen Story:

I am the chairman,

So that I want to view overall progress and mange exceptions,

So that I can enjure a Smoth thesis experience for all Stakeholdery.

Module-9: Report and Analytics

User Story Scenario: -

Generates traposts showing manks, task compution, teachers workload, and group penformance.

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User Stry: -

I am the chairman,

So that I want to generate reports about thesis group assignments and marks.

So that I can archiev the data and improve future planning.

