



An-Najah National University

Faculty of Engineering & Information Technology Computer Engineering Department

Graduation Project I

Let's Graduate

Authors

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Presented in partial fulfillment of the requirements for Bachelor
degree in (Computer Engineer).

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1. Acknowledgment

First of all, we would like to take this opportunity to thank everyone who has helped in the making of this project, to our university, An-Najah National University, that gives students the ability to make a difference in society. To our Instructor, Dr. Manar Qamhieh who was supportive in every step of the way and provided her help and guidance. To everyone that was supportive family and friends that lead us to make this project.

2. Disclaimer

This report was written by Jamal SaadEddin and Omar Qaneer at the Computer Engineering Department, Faculty of Engineering, An-Najah National University. It has not been altered or corrected, other than editorial corrections, as a result of assessment and it may contain language as well as content errors. The views expressed in it together with any outcomes and recommendations are solely those of Jamal SaadEddin and Omar Qaneer. An-Najah National University accepts no responsibility or liability for the consequences of this report being used for a purpose other than the purpose for which it was commissioned.

3. Abstract

"Let's Graduate" is an innovative digital platform tailored for the Faculty of Engineering, designed to enhance the graduation project registration process. This advanced system, accessible through both a website and a mobile application, is specifically crafted to meet the unique needs of the faculty. It focuses on simplifying the registration, supervision, and approval phases for student projects, offering a seamless and user-friendly experience.

Central to the system's functionality are its specialized roles and capabilities. Department Managers, serving as administrative users, are responsible for setting and managing graduation project registration requirements within their departments. Students benefit from an intuitive interface that allows for effortless project registration and the ability to connect with supervisors. The system also supports the formation of student partnerships, fostering a collaborative academic environment.

"Let's Graduate" also brings robust oversight and evaluative features. Department Managers have tools to oversee and regulate registration activities, ensuring adherence to academic standards. The platform enables students to submit their project abstracts, which are then reviewed and critiqued by supervisors. A dedicated committee evaluates and either approves or rejects these abstracts, maintaining a high standard for project quality. This system not only streamlines administrative processes but also enriches the educational journey for students and faculty, driving forward a culture of transparency, efficiency, and academic excellence.

4. Introduction

4.1 General background

The "Let's Graduate" website is a comprehensive digital platform that streamlines the academic journey for university students, particularly in managing the prerequisites for graduation projects. Initially, it assists students in fulfilling their course requirements, ensuring they are eligible to register for their graduation projects. Once this initial phase is completed, the platform facilitates the creation of student partnerships, encouraging collaboration and teamwork.

As the semester progresses, students are empowered to send supervision requests to available faculty members in their department. These supervisors have the discretion to accept or decline these requests, based on their assessment and availability. Subsequently, students are required to submit the abstracts of their projects. This phase allows supervisors to review and provide valuable feedback on these abstracts, fostering an interactive and supportive academic environment. The projects committee plays a crucial role in this stage, having the authority to approve abstracts as deemed appropriate.

In the final phase of the semester, which mirrors the culmination of real-life projects, supervisors are tasked with evaluating their students. This crucial step involves determining whether each student has met the project criteria, ultimately deciding their academic fate by marking them as either 'passed' or 'failed'. This end-to-end process on the "Let's Graduate" website ensures a structured, transparent, and efficient progression for students from course prerequisites to final evaluations.

4.2 Objectives and Scope

The system has been built as phases of time, each department manager can change the current period of time for his department.

The objectives of this project are:

- 1. Eligibility Assessment and Course Prerequisites:** Ensure students meet the necessary course requirements to qualify for graduation project registration.
- 2. Facilitation of Student Partnerships:** Enable students to form partnerships, fostering collaboration and team-building skills.
- 3. Supervision Request Process:** Allow students to send requests to available department supervisors, who then have the option to accept or decline these requests.
- 4. Project Abstract Submission:** Require students to submit detailed abstracts of their graduation projects for evaluation.
- 5. Supervisor Review and Feedback:** Supervisors review the submitted abstracts, providing constructive feedback to guide students in their project development.
- 6. Project Committee Evaluation:** Have the project committee review and approve the submitted abstracts, ensuring they meet academic standards and quality requirements.
- 7. Final Evaluation and Grading:** In the last stage of the semester, supervisors evaluate the students' performance and projects, assigning a final grade of 'passed' or 'failed' based on the project's completion and quality.

4.3 Significance

The significance of the "Let's Graduate" system lies in its ability to address and solve several key challenges faced by students and supervisors in the academic environment:

- 1. Streamlining Partner Formation:** Students who have not pre-arranged partnerships can easily find and connect with available peers through the system. This feature eliminates the uncertainty and difficulty of finding a project partner in traditional settings.
- 2. Accessible Supervisor Selection:** The system provides transparency in supervisor availability, allowing students to identify and reach out to faculty members who are open to supervising more projects. This feature addresses the common issue of students having to physically search for available supervisors across the campus, saving time and effort.
- 3. Centralized Abstract Submission Platform:** Students can submit their project abstracts directly on the website. This centralization is a significant improvement over previous methods like Google Forms, streamlining the submission process.
- 4. Efficient Review Process for Supervisors:** Supervisors can easily access and review student abstracts on the website. This replaces less efficient methods such as reviewing documents sent via Facebook Messenger or other platforms, ensuring a more organized and professional approach.
- 5. Integrated Feedback Mechanism:** The system enables supervisors to provide direct feedback and improvement suggestions on student abstracts within the website. This integrated feedback mechanism is more efficient than using separate messaging platforms like Facebook Messenger, facilitating clearer and more effective communication.
- 6. Automated Abstract Evaluation by Projects Committee:** The projects committee can approve abstracts directly on the website, allowing immediate notification of the results to both students and their supervisors. This digital approach modernizes and speeds up the evaluation process compared to traditional, manual methods.

Overall, the "Let's Graduate" system is designed to streamline the graduation project process, making it more efficient, transparent, and user-friendly for both students and supervisors. It addresses common logistical and communication challenges, ultimately enhancing the educational experience and project management within the university.

5. Constraints

5.1 The pressure and momentum of the work to be accomplished

When you take an overview of what you are going to work on at first, you think that it is small and can be done quickly, but in real work it is very much work and effort.

5.2 Lack of Experience on Flutter

We spent a lot of time learning Flutter basics to start making the mobile application.

5.3 Lack of Time

We really worked hard on the project, and give it all our time and effort, but if we take a look on where we are, we found ourself are still not doing any thing and we need more time to finish the project, because of its huge objectives, and as we are writing this, we see that this project needs at least 6 months of work to be completed as good as expected, and that's why we faced a lack of time problem.

6. Earlier Course

6.1 Advanced Software Engineering

We worked on backend project through the course, and we gained a lot of experience on Node.js.

Also, we took advantage of the association, dependency, cohesion and coupling topics between classes and associations in building our code.

6.2 Data Structure & Java

We took advantage of the efficient construction method and applied the concept of abstraction and inheritance concepts to interfaces.

6.3 Distributed Operating Systems (DOS)

This course helps us learn regular expressions (regex), we faced a problem of extracting numbers from strings and “regex” solved our problem.

7. Literature Review

1. Digitalization in Education:

Emphasizing the role of technology in enhancing student engagement and streamlining administrative tasks (Smith & Jones, 2020), the "Let's Graduate" system reflects this trend by providing a digital solution for managing graduation projects.

2. Collaboration in Academic Projects:

Research highlights the importance of easy partner formation for academic success (Miller & Brown, 2019). The system facilitates this by allowing students to connect with project partners, addressing challenges in traditional academic environments.

3. Supervisor-Student Communication:

Effective communication between students and supervisors is crucial (Davis, 2021). The system improves this dynamic with transparent supervisor availability and streamlined communication channels.

4. Administrative Efficiency:

Lee (2018) points out the need for reducing manual, time-consuming academic processes. "Let's Graduate" addresses this with a centralized submission and review process, moving away from fragmented methods.

5. Feedback Mechanisms:

Timely and structured feedback is vital in education (Khan & O'Connor, 2022). The system's integrated feedback feature aligns with this pedagogical best practice.

6. Automated Academic Evaluations:

The trend towards automation in evaluations enhances transparency and speed (Nguyen, 2023). The system's automated approach for abstract approvals by the project committee embodies this advancement.

Conclusion:

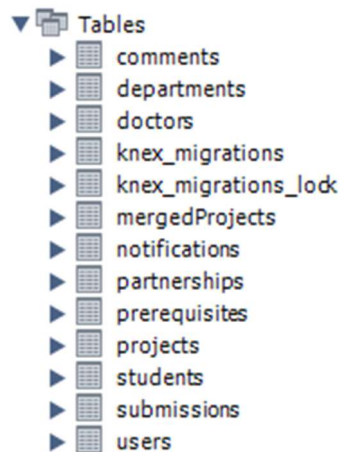
The "Let's Graduate" system aligns with contemporary educational research and practices. It enhances the graduation project experience through its digital approach to collaboration, communication, administrative efficiency, feedback, and evaluation, suggesting a significant positive impact on the academic journey of engineering students.

8. Methodology

- Code & Programming:
 - React18 TypeScript for website frontend.
 - Flutter for mobile application.
 - Node.js for creating the backend server, which communicates with both Web & Mobile frontend servers.
 - MySQL database, to store all data about the students and supervisors.
 - Sequelize library for creating models and routes for database tables.
- Tools:
 - Visual Studio Code
 - MySQL Workbench
 - Postman
 - Git & GitHub

8.1 Database Design

- All database tables:



- Users Table:

	userId	password	type	salt
▶	11924066	\$2b\$10\$NxnUp5C6QzQmGfyBa5JQLey8GIW4G...	student	\$2b\$10\$NxnUp5C6QzQmGfyBa5JQLe
*	NULL	NULL	NULL	NULL

- Students Table:

	studentId	firstName	lastName	email	department	address	mobileNumber	gp1State	gp2State	projectType	isWithGroup
▶	11823044	Mustafa	HabRoman	s11823044@stu.najah.edu	Computer Engineering	Nablus	0569414141	passed	in progress	gp2	1
	11823055	Yahia	Arafat	s11823055@stu.najah.edu	Computer Engineering	Asira	0594888874	in progress	passed	gp1	1
	11825033	Mohee	Qwareeq	s11825033@stu.najah.edu	Computer Engineering	Tubas	0595552223	in progress	passed	gp1	1
	11911010	Omar	Shkokani	s11911010@stu.najah.edu	Computer Engineering	Nablus	0596662221	in progress	passed	gp1	1
	11911122	Mustafa	Irshaid	s11911122@stu.najah.edu	Computer Engineering	Nablus	0594658744	in progress	passed	gp1	1
	11911133	Aamer	Qanadilo	s11911133@stu.najah.edu	Computer Engineering	Nablus	0598744123	in progress	passed	gp1	1
	11922022	Mohammad	Zaid	s11922022@stu.najah.edu	Computer Engineering	Tulkarem	0596333112	in progress	passed	gp1	1
	11923604	Jamal	SaadEddin	s11925033@stu.najah.edu	Computer Engineering	Nablus	0599098598	in progress	passed	gp1	1

- Doctors Table:

	doctorId	firstName	lastName	email	department	address	mobileNumber	isSupervisor	isDepartmentManager	isProjectsCommitteeMember
▶	1244	Abdallah	Rashed	rashed@najah.edu	Computer Engineering	Jenin	0593336665	1	0	1
	1355	Manar	Qamhiee	qamhiee@najah.edu	Computer Engineering	Nablus	0597462407	1	1	1
	1366	Haya	Samaneh	samaneh@najah.edu	Computer Engineering	Nablus	0597778855	1	0	1
	1377	Raed	Qadi	qadi@najah.edu	Computer Engineering	Nablus	0599998877	1	0	0
	1495	Samer	Arandi	arandi@najah.edu	Computer Engineering	Nablus	0592217778	1	0	0

- Departments Table:

	departmentName	maxNoOfStuPerProj	maxNoOfProjPerDoct	maxNoOfStuPerDoct	currentPeriod
▶	Computer Engineering	3	5	10	evaluating-students
*	NULL	NULL	NULL	NULL	NULL

- Prerequisites Table:

	prerequisiteId	department	projectType	content
▶	2	Computer Engineering	gp2	Do you finished Microcontrollers course?
	3	Computer Engineering	gp2	Do you finish wireless lab?
	4	Computer Engineering	gp2	Do you finished Critical thinking course?
	5	Computer Engineering	gp1	Do you finish Web course?
	6	Computer Engineering	gp1	Do you finish Software Engineering Course?
	7	Computer Engineering	gp1	Do you finish Database course?
	8	Computer Engineering	gp1	Do you finish Data Structure course?
	9	Computer Engineering	gp2	Do you finish copumter design lab?

- Projects Table:

	projectId	projectTitle	doctorId	mergedProjectId	projectType	department
▶	1	Let's Graduate	1355	NULL	gp1	Computer Engineering
	2	Mohitoo	1355	NULL	gp2	Computer Engineering
	3	Delevary System	1355	NULL	gp1	Computer Engineering
	4	Clever Chair	1355	NULL	gp2	Computer Engineering
	5	Medical System	1377	NULL	gp1	Computer Engineering
	6	E-Commerce System	1495	NULL	gp1	Computer Engineering
	7	Cleaner Robot	1495	NULL	gp2	Computer Engineering
	8	Educational System	NULL	NULL	gp1	Computer Engineering
	12	project title 11925044	NULL	NULL	gp1	Computer Engineering

- Partnerships Table:

	studentId	projectId
▶	11923604	1
	11925066	1
	11933044	2
	11933066	2
	11925011	3
	11925022	3
	11823055	4
	11923877	4
	11911122	5
	11911133	5
	11925033	6
	11925077	6
	11823044	7
	11911010	7
	11924044	7
	11922022	8
	11825033	12
	11925044	12

- Merged Projects Table:

	mergedProjectId	projectTitle	mergeType
*	NULL	NULL	NULL

- Submissions Table:

	submissionId	projectId	type	file	acceptStatus	evaluatorId
▶	1	1	abstract	/src/assets/Let's Graduate -Abstract.pdf	Pending	1495
	2	3	abstract	/src/assets/Let's Graduate -Abstract.pdf	Pending	1495
	3	4	abstract	/src/assets/Let's Graduate -Abstract.pdf	Pending	1377
	4	5	abstract	/src/assets/Let's Graduate -Abstract.pdf	Accepted	1355
	5	6	abstract	/src/assets/Let's Graduate -Abstract.pdf	Accepted	1355

- Comments Table:

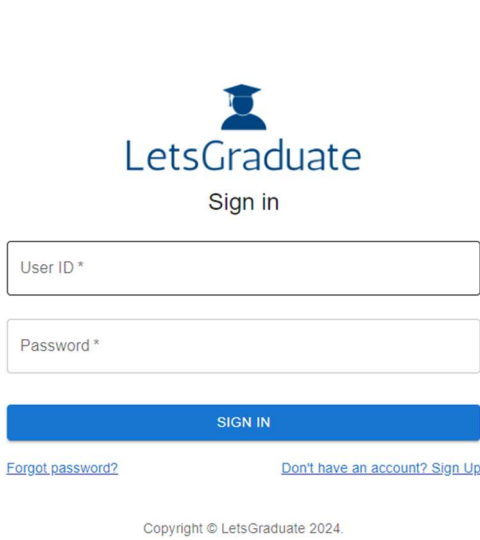
	commentId	doctorId	projectId	content	dateCreated
	3	1355	1	provide more feauters	2024-01-26T14:53:57.609Z
	4	1355	6	add more clear text	2024-01-26T14:57:11.865Z
	5	1377	2	please follow rules of abstract writing	2024-01-26T15:08:34.656Z
	6	1377	2	please re-write the abstract	2024-01-27T06:00:59.073Z
	7	1355	3	this is not accepted features	2024-01-27T06:02:01.795Z
	8	1355	4	its very good but needs some enhancements	2024-01-27T06:54:42.251Z
	9	1355	6	come to my office, we need to discuss more...	2024-01-27T09:31:24.908Z

- Notifications Table:

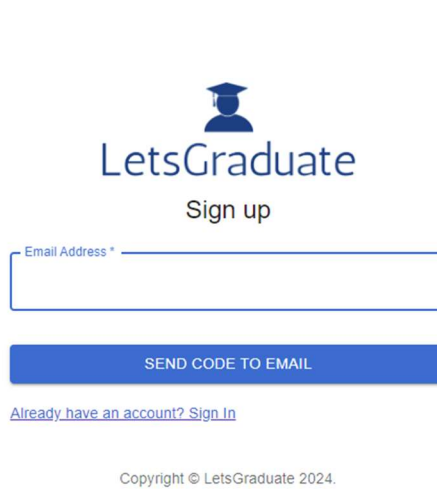
notificationId	senderId	reciverId	readStatus	type	acceptStatus	content	dateCreated	notifyButtonText	senderType
74	1377	11933044	unread	comment	NULL	commented on your abstract	2024-01-27T06:01:01.327Z	SHOW COMMENT	doctor
75	1377	11933066	unread	comment	NULL	commented on your abstract	2024-01-27T06:01:01.527Z	SHOW COMMENT	doctor
76	1355	11925011	unread	comment	NULL	commented on your abstract	2024-01-27T06:02:04.178Z	SHOW COMMENT	doctor
77	1355	11925022	unread	comment	NULL	commented on your abstract	2024-01-27T06:02:04.325Z	SHOW COMMENT	doctor
78	1355	11823055	unread	comment	NULL	commented on your abstract	2024-01-27T06:54:44.395Z	SHOW COMMENT	doctor
79	1355	11923877	unread	comment	NULL	commented on your abstract	2024-01-27T06:54:44.563Z	SHOW COMMENT	doctor
80	1355	11925033	unread	comment	NULL	commented on your abstract	2024-01-27T09:31:25.161Z	SHOW COMMENT	doctor
81	1355	11925077	unread	comment	NULL	commented on your abstract	2024-01-27T09:31:25.317Z	SHOW COMMENT	doctor
89	1355	11923604	read	notify	NULL	Unfortunately, I'm unable to supervise your gradu...	2024-01-27T20:08:24.402Z	NULL	doctor
90	1355	11925066	unread	notify	NULL	Unfortunately, I'm unable to supervise your gradu...	2024-01-27T20:08:24.641Z	NULL	doctor
108	1355	11923604	read	notify	NULL	Unfortunately, I'm unable to supervise your gradu...	2024-01-28T13:04:12.376Z	NULL	doctor
109	1355	11925066	unread	notify	NULL	Unfortunately, I'm unable to supervise your gradu...	2024-01-28T13:04:12.529Z	NULL	doctor
113	1	1355	unread	request	pendingJoin	is requesting to join your group	2024-01-28T14:51:59.991Z	NULL	group
114	1355	11923604	read	notifying	NULL	accepted to supervise your group this semester	2024-01-28T14:56:18.324Z	NULL	doctor
115	1355	11925066	unread	notifying	NULL	accepted to supervise your group this semester	2024-01-28T14:56:19.085Z	NULL	doctor
116	1	1244	read	request	accepted	is requesting you to supervise their group	2024-01-28T15:04:52.386Z	NULL	group
117	1244	11923604	read	notify	NULL	accepted to supervise your group this semester	2024-01-28T15:07:38.174Z	NULL	doctor
118	1244	11925066	unread	notify	NULL	accepted to supervise your group this semester	2024-01-28T15:07:38.324Z	NULL	doctor
126	1355	1495	unread	merge	pendingMerge	is requesting to merge his/her group (132) with yo...	2024-01-28T18:41:27.051Z	NULL	doctor
136	11944044	11923604	unread	request	accepted	is requesting to join your group	2024-01-28T21:32:06.091Z	NULL	student
137	11944044	11925066	unread	request	accepted	is requesting to join your group	2024-01-28T21:32:06.241Z	NULL	student
138	11923604	11944044	unread	notify	NULL	accepted your partnership request, you're now a ...	2024-01-28T21:32:43.467Z	NULL	student
139	11944044	11923604	unread	notify	NULL	is now new member in your group	2024-01-28T21:32:43.933Z	NULL	student

8.2 Website

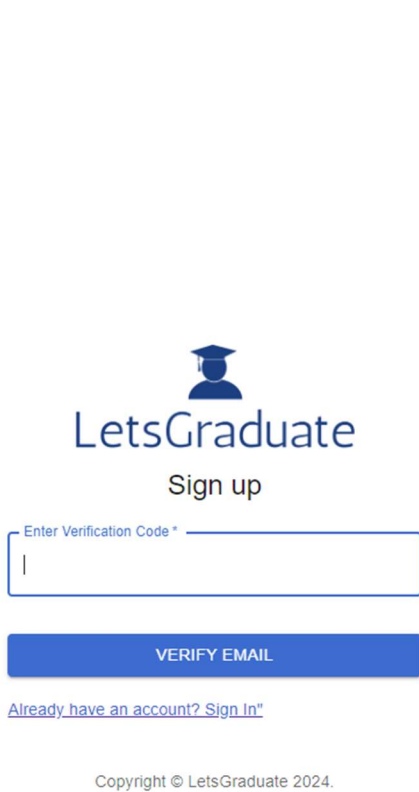
8.2.1 Authentication Pages



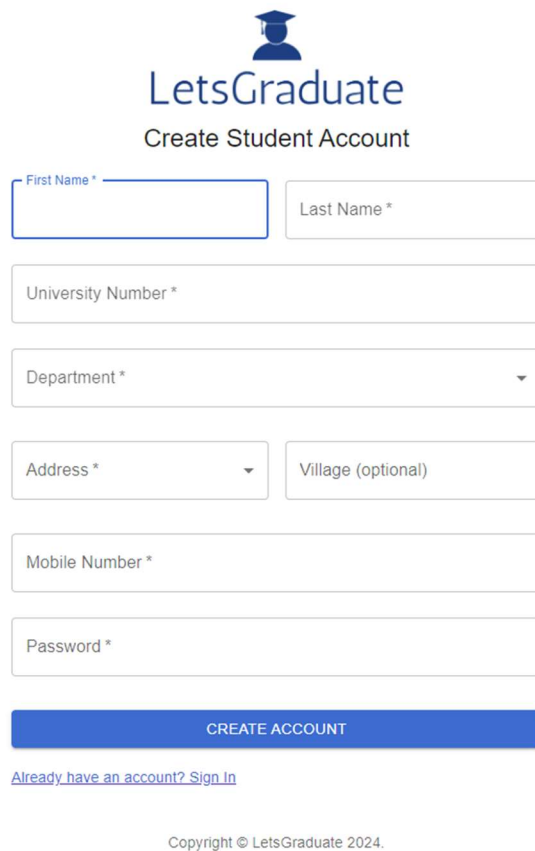
The sign-in page features the LetsGraduate logo at the top, followed by the text "Sign in". Below this are two input fields: "User ID *" and "Password *". A blue button labeled "SIGN IN" is positioned below the password field. At the bottom left, there is a link "Forgot password?" and at the bottom right, a link "Don't have an account? Sign Up". The footer contains the text "Copyright © LetsGraduate 2024."




The sign-up page features the LetsGraduate logo at the top, followed by the text "Sign up". Below this is an input field for "Email Address *". A blue button labeled "SEND CODE TO EMAIL" is positioned below the email field. Below the button is a link "Already have an account? Sign In". The footer contains the text "Copyright © LetsGraduate 2024."



This page is a verification step for the sign-up process. It features the LetsGraduate logo at the top, followed by the text "Sign up". Below this is an input field for "Enter Verification Code *". A blue button labeled "VERIFY EMAIL" is positioned below the verification code field. Below the button is a link "Already have an account? Sign In". The footer contains the text "Copyright © LetsGraduate 2024."



The "Create Student Account" page features the LetsGraduate logo at the top, followed by the text "Create Student Account". Below this are several input fields: "First Name *" and "Last Name *" (side-by-side), "University Number *", "Department *" (with a dropdown arrow), "Address *" (with a dropdown arrow) and "Village (optional)" (side-by-side), "Mobile Number *", and "Password *". A blue button labeled "CREATE ACCOUNT" is positioned below the password field. Below the button is a link "Already have an account? Sign In". The footer contains the text "Copyright © LetsGraduate 2024."




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Forget password

SEND CODE TO EMAIL

[Back to Sign In?](#)

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Forget password

VERIFY EMAIL

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LetsGraduate

Reset password

RESET PASSWORD

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8.2.2 Student Pages

- **Dashboard:** it gives a quick overview about the department's state, notify students to changes occurs in the system, and if the registration time starts, booking to supervisors...etc

The screenshot shows the 'Let's Graduate' dashboard. The top navigation bar is blue with the text 'Let's Graduate' and icons for a home page, notifications, and user profile. A left sidebar contains menu items: Dashboard, Prerequisites Graduation Project 1, Prerequisites Graduation Project 2, Find a Partner, My Project Information & Details, Register to a Supervisor, and Submissions. The main content area is divided into three sections: 1. 'Welcome Jamal!' followed by a 'Quick Overview' section with buttons for 'GRADUATION PROJECT 1', 'GRADUATION PROJECT 2', 'SHOW AVAILABLE GROUPS', and 'SHOW SUPERVISORS'. 2. 'Project Overview' for 'Mohito Maker Machine' with details like 'Project Members: 5' and 'Project Supervisor: Dr. Manar Qamhie', and a 'SHOW MORE DETAILS' button. 3. 'Profile Overview' showing the user's name 'Jamal SaadEddin' and a profile picture icon.

- **Prerequisites - Graduation Project 1:** to let student answer questions about completing previous courses, to ensure that he has the ability to register a graduation project

The screenshot shows the 'Prerequisites - Graduation Project 1' form. It has a table with two columns: 'Prerequisite' and 'Answer'. The table contains four rows of questions, each with a 'Yes' button (green with a checkmark) and a 'No' button (blue with an 'X'). At the bottom, there is a summary message: 'You've completed all the Prerequisites! Do you want to register Graduation Project 1 this semester?' with a green 'YES, REGISTER' button. The footer of the page reads 'Copyright © LetsGraduate 2024.'.

Prerequisite	Answer
Do you finish Web course?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Do you finish Software Engineering Course?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Do you finish Database course?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Do you finish Data Structure course?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

You've completed all the Prerequisites!
Do you want to register Graduation Project 1 this semester?

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- **Prerequisites - Graduation Project 2:** same as the previous page

Prerequisites - Graduation Project 2

Prerequisite	Answer
Do you finished Microcontrollers course?	<input type="checkbox"/>
Do you finish wireless lab?	<input type="checkbox"/>
Do you finished Critical thinking course?	<input type="checkbox"/>
Do you finish copumter design lab?	<input type="checkbox"/>

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- **Find a Partner:** to help the student connect with other students and make themselves as groups, it's about sending partnerships requests between students.
Also, he can search students by name, filter them by academic number (ex: 119), or/and filter them by address (ex: Nablus)

Connect to Your Partners

Here you can send partner request to create partnerships with other students

Available Groups

Filter by Address ▼

Filter by Academic Number ▼

Click on group to show more details

> Jamal SaadEddin, Obaida Aws	2 Members
> Momen Odeh, Abdallah Ads	2 Members
> Mustafa Irshaid, Aamer Qanadilo	2 Members
> Abas Surakji, NoorAldeen AbuShehadeh	2 Members
> Mohammad Zaid	1 Members
> Mohee Qwareeq, Omar Qaneer	2 Members
> Ahmad Majed	1 Members

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- **My Project – Information & Details:** Here the student can view his project info, including his partner(s) and supervisor(s), and he can change the project title as he wants.

Let's Graduate

Computer Engineering - هندسة الحاسوب - Graduion Project 1

My Partners

Student Name	Registration Number	Department	Email	Mobile Number	Address
Jamal SaadEddin		Computer Engineering	s11925033@stu.najah.edu	0599098598	Nablus
Obaida Aws		Computer Engineering	s11925066@stu.najah.edu	0595493758	Aqraba

My Supervisor

Supervisor Name	Department	Email	Mobile Number
Manar Qamhiee	Computer Engineering	qamhiee@najah.edu	0597462407

CHANGE PROJECT TITLE

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Change Project Title

Enter New Project Title

CANCEL
SAVE

- **Register to a Supervisor:** here the student can send supervision requests to available supervising doctors

Choose Your Supervisor

Here you can send a request to one of the supervisors to supervise your group during the semester

Available Supervisors

Search by first or last name			
Supervisor Name	Department	Email	Request Supervising
Dr. Abdallah Rashed	Computer Engineering	rashed@najah.edu	✕ CANCEL REQUEST
Dr. Manar Qamhiee	Computer Engineering	qamhiee@najah.edu	✕ CANCEL REQUEST
Dr. Haya Samaneh	Computer Engineering	samaneh@najah.edu	REGISTER REQUEST >
Dr. Raed Qadi	Computer Engineering	qadi@najah.edu	REGISTER REQUEST >
Dr. Samer Arandi	Computer Engineering	arandi@najah.edu	REGISTER REQUEST >


Rows per page: 10 ▾ 1-5 of 5 < >

- **Submissions:** here the student can submit his abstract, also the evaluation will be revealed as it's done.

Abstract Submission

Here you can submit your project abstract.
Note that your supervisor and projects committee can review it, and give you feedbacks through comments section.

[UPLOAD ABSTRACT](#)
[DELETE ABSTRACT](#)
Submitted, Not Evaluated
[COMMENTS](#)



Cover page

- **Comments:** here the student can view the comments on his abstract written by either his supervisor or the projects committee.


[< Abstract- Comments and Feedbacks](#)

Dr. Manar Qamhiee • 2 days ago
provide more feauters

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- **Profile Details:** view student profile info, and edit them as needed..

My Profile

 Jamal SaadEddin

First Name Jamal	Last Name SaadEddin
User Id 11923604	Department Computer Engineering
Address Nablus	Mobile Phone 0599098598


[EDIT PROFILE](#)


Graduation Project 1 State: In progress Graduation Project 2 State: Done


Copyright © LetsGraduate 2024.


- **Account Settings:** view email, change password, switch to dark mode, delete student account!

Account Settings

Email Address s11925033@stu.najah.edu	Password 
--	--

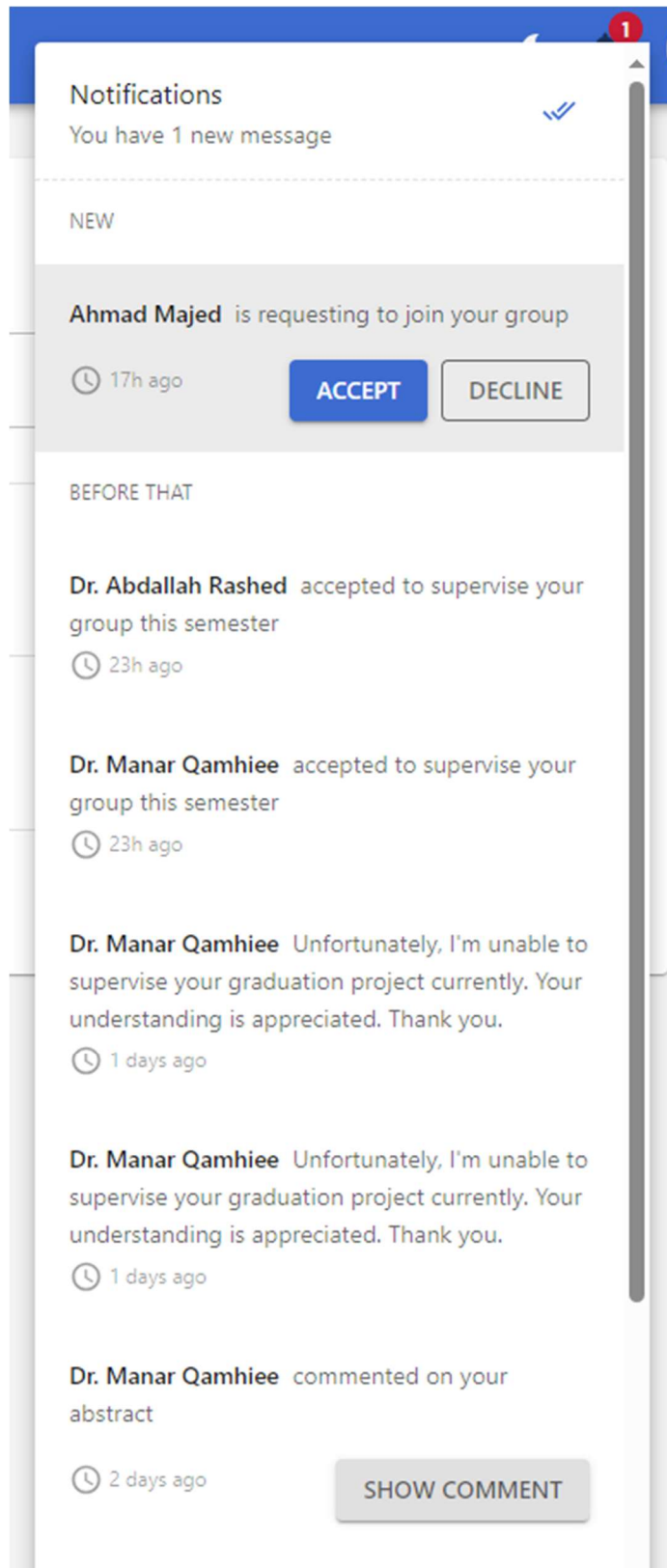
[CHANGE PASSWORD](#) 

[SWITCH TO DARK MODE](#) 

[DELETE ACCOUNT](#) 

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- **Notifications:** below... there is a notifications examples which will be sent to student over the whole semester:



8.2.3 Supervisor Pages

- **Dashboard:** gives a quick overview to the supervisor about the department's state.
 - If supervisor is normal doctor:

The screenshot shows the 'Let's Graduate' dashboard for a normal doctor supervisor. The interface includes a blue header with the title 'Let's Graduate', a navigation menu on the left, and a main content area with three sections: 'Welcome Dr. Ashraf!', 'Quick Overview', and 'Profile Overview'. The 'Quick Overview' section contains a message: 'After completing the graduation projects for this semester, it is time to evaluate the students. You must evaluate each student by changing the status of their project to pass or fail.' The 'Profile Overview' section displays the user's name 'Ashraf Armoush', user ID '1001', address 'Nablus', department 'هندسة الحاسوب - Computer Engineering', and mobile phone '0598745632'. The footer indicates 'Copyright © LetsGraduate 2024.'

Let's Graduate

Dashboard

My Groups
Projects under my supervision

Submissions

Merge Groups

Grading
Evaluate your students

Welcome Dr. Ashraf!

Quick Overview

After completing the graduation projects for this semester, it is time to evaluate the students. **You must evaluate each student by changing the status of their project to pass or fail.**

Profile Overview

Ashraf Armoush

User Id: 1001

Address: Nablus

Department: Computer Engineering - هندسة الحاسوب

Mobile Phone: 0598745632

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- If supervisor is the department manager:

The screenshot shows the 'Let's Graduate' dashboard for a department manager supervisor. The interface is similar to the normal doctor view but includes an additional 'Department Management' section in the navigation menu. The main content area contains the same 'Welcome Dr. Ashraf!', 'Quick Overview', and 'Profile Overview' sections. The 'Quick Overview' section contains the same message: 'After completing the graduation projects for this semester, it is time to evaluate the students. You must evaluate each student by changing the status of their project to pass or fail.' The 'Profile Overview' section displays the user's name 'Ashraf Armoush', user ID '1001', address 'Nablus', department 'هندسة الحاسوب - Computer Engineering', and mobile phone '0598745632'. The footer indicates 'Copyright © LetsGraduate 2024.'

Let's Graduate

Dashboard

My Groups
Projects under my supervision

Submissions

Merge Groups

Grading
Evaluate your students

Department Management

Prerequisites
Graduation Project 1

Prerequisites
Graduation Project 2

Department
Settings and Info

Welcome Dr. Ashraf!

Quick Overview

After completing the graduation projects for this semester, it is time to evaluate the students. **You must evaluate each student by changing the status of their project to pass or fail.**

Profile Overview

Ashraf Armoush

User Id: 1001

Address: Nablus

Department: Computer Engineering - هندسة الحاسوب

Mobile Phone: 0598745632

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- **My Groups:** here the supervisor can view his groups and students info

My Groups

Here you can view your groups informations

Groups under my supervision

Click on group to show more details

▼ Let's Graduate, ID: 1 2 Members				
Student Name	Registration Number	Address	Email	Department
Jamal SaadEddin	11923604	Nablus	s11925033@stu.najah.edu	Computer Engineering
Obaida Aws	11925066	Aqraba	s11925066@stu.najah.edu	Computer Engineering
> Mohitoo, ID: 2 2 Members				
> Delevary System, ID: 3 2 Members				
> Clever Chair, ID: 4 2 Members				

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- **Submissions:** here the supervisor can view the state of each group he has, and as shown if he is a projects committee member, he will have another tab to view the required abstracts from him to view and evaluate..

Abstracts Submissions

Here you can view projects abstracts.

MY GROUPS PROJECTS COMMITTEE


	Project Title	Group Size	Submission Status	Acceptance Status	View Abstract
▼	Let's Graduate	2	Submitted	Pending	VIEW
▼	Mohitoo	2	Not Submitted	Not Submitted	
▼	Delevary System	2	Submitted	Pending	VIEW
▼	Clever Chair	2	Submitted	Pending	VIEW

- **View Submission:** here he can view abstract submission, and if he's projects committee member the button accept will appear to let him accept the abstract, but for the normal doctor this button does not exist

< **Medical System - Abstract**

You can write any feedbacks through comments section.

COMMENTS **ACCEPT ABSTRACT**



An-Najah National University
Faculty of Engineering and IT

Faculty of Engineering & Information Technology
Quality and Accreditation Unit
ABET Center

جامعة النجاح الوطنية
كلية الهندسة وتكنولوجيا المعلومات

Cover page

- **Comments:** here the supervisor can view, add comments to the group, about the submitted abstract...

< **Abstract- Comments and Feedbacks**

Write new feedback... **>**

Dr. Manar Qamhiee • 3 days ago
provide more feauters

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- **Merge Group:** This will return all groups from all departments to let supervise merge two groups with each other's, it will do the listed in the image below

Merge Groups

Merge 2 groups and make them one group supervised by you and another doctor.

- This will merge the 2 groups in 1 group.
- There will be 2 supervisors on the new merged group.
- You will be supervising you current students in the new merged group.
- The other doctor will be supervising his/her students in the new merged group.
- At the end of the semester, each doctor will evaluate his/her students only.

Available Groups

Search by student first or last name Filter by Address Filter by Academic Number

Click on group to show more details

▼ Jamal SaadEddin, Obaida Aws 2 Members

Student Name	Academic Number	Address	Email	
Jamal SaadEddin	119	Nablus	s11925033@stu.najah.edu	Computer Engineering
Obaida Aws	119	Aqraba	s11925066@stu.najah.edu	Computer Engineering

> Zaid SaadEldeen, Dyaa Aqrabawi 2 Members

> Momen Odeh, Abdallah Ads 2 Members

> Yahia Arafat, Omar Quzmar 2 Members

> Mustafa Irshaid, Aamer Qanadilo 2 Members

After clicking 'view merge process', it will open up a dialog to select one of your groups and then send notification to the supervisor of the requested group to merge.

Step 1:

1- CHOOSE YOUR GROUP 2- REVIEW GROUPS DETAILS 3- CONFIRM MERGE PROCESS

Choose your group that you want to merge

Let's Graduate, ID: 1

- Let's Graduate, ID: 1
- Mohitoo, ID: 2
- Delevary System, ID: 3
- Clever Chair, ID: 4

Step 2:

merge 2 groups and make them one group supervised by you and another doctor.

1- CHOOSE YOUR GROUP 2- REVIEW GROUPS DETAILS 3- CONFIRM MERGE PROCESS

Your Group

▼ Jamal SaadEddin, Obaida Aws 2 Members

Student Name	Registration Number	Address	Email	Department	
Jamal SaadEddin	Nablus	s11925033@stu.najah.edu	Computer Engineering	gp1	in progress
Obaida Aws	Aqraba	s11925066@stu.najah.edu	Computer Engineering	gp1	in progress

Requested Group

▼ Mustafa HabRoman, Omar Shkokani, Khaled Jaber 3 Members

Student Name	Academic Number	Address	Email	Department
Mustafa HabRoman	118	Nablus	s11823044@stu.najah.edu	Computer Engineering
Omar Shkokani	119	Nablus	s11911010@stu.najah.edu	Computer Engineering
Khaled Jaber	119	Nablus	s11924044@stu.najah.edu	Computer Engineering

[NEXT](#)

Step 3:

merge 2 groups and make them one group supervised by you and another doctor.

1- CHOOSE YOUR GROUP 2- REVIEW GROUPS DETAILS 3- CONFIRM MERGE PROCESS

Merge 2 groups and make them one group supervised by you and another doctor.

- This will merge the 2 groups in 1 group.
- There will be 2 supervisors on the new merged group.
- You will be supervising you current students in the new merged group.
- The other doctor will be supervising his/her students in the new merged group.
- At the end of the semester, each doctor will evaluate his/her students only.

Type MERGE to confirm.

[SENT MERGE REQUEST TO OTHER GROUP ↗](#)

- **Grading:** After finishing graduation projects in this semester, it's time to evaluate the students.

Grading and Evaluation

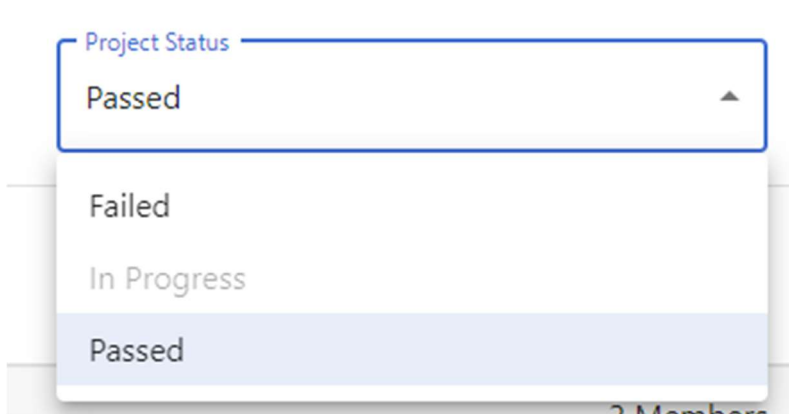
After finishing graduation projects in this semester, now it's time to evaluate the students.
Please change each student's project status individually.

Groups under my supervision

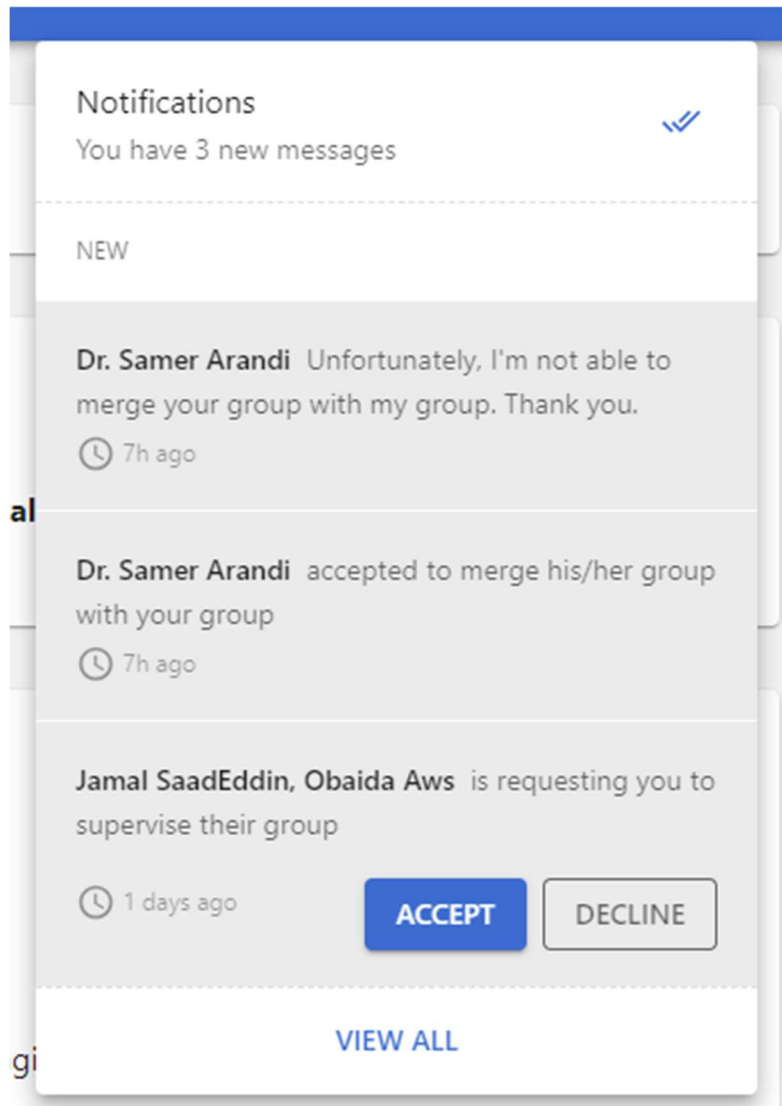
Click on group to show more details

▾ Let's Graduate, ID: 1 2 Members			
Student Name	Registration Number	Project Type	Project Status (Evaluate here)
Jamal SaadEddin	11923604	gp1	Project Status In Progress ▾
Obaida Aws	11925066	gp1	Project Status In Progress ▾
> Mohitoo, ID: 2 2 Members			
> Delevary System, ID: 3 2 Members			
> Clever Chair, ID: 4 2 Members			

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- **Notifications:** supervisor receives different type of notifications like these:



8.2.4 Department Manager

- **Prerequisites - Graduation Project 1:** department manager is the only person who is responsible for adding or deleting the prerequisites of the graduation projects...

Prerequisites - Graduation Project 1




Do you finish Web course?	DELETE
Do you finish Software Engineering Course?	DELETE
Do you finish Database course?	DELETE
Do you finish Data Structure course?	DELETE

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- **Prerequisites - Graduation Project 2:**

Prerequisites - Graduation Project 2



Do you finished Microcontrollers course?	DELETE
Do you finish wireless lab?	DELETE
Do you finished Critical thinking course?	DELETE
Do you finish copumter design lab?	DELETE

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Department Settings & Info: here he can view some information on the department he is managing

Department Settings

Department Computer Engineering	Current Number of Registered Students 21
Current Number of Supervisors 5	Current Number of Projects Committee Members 3
Maximum Number of Students per Project 3	Maximum Number of Students per Supervisor 10
Maximum Number of Projects per Supervisor 5	Department Current Period (Current Stage) evaluating-students
Supervising Doctors Abdallah Rashed - 1244, Manar Qamhiee - 1355, Haya Samaneh - 1366, Raed Qadi - 1377, Samer Arandi - 1495	Projects Committee Members Abdallah Rashed - 1244, Manar Qamhiee - 1355, Haya Samaneh - 1366

[MODIFY THESE SETTINGS](#)

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He also can update some of these settings, such as choosing who is supervising this semester, who is in projects committee in this semester, and more...

Department Settings

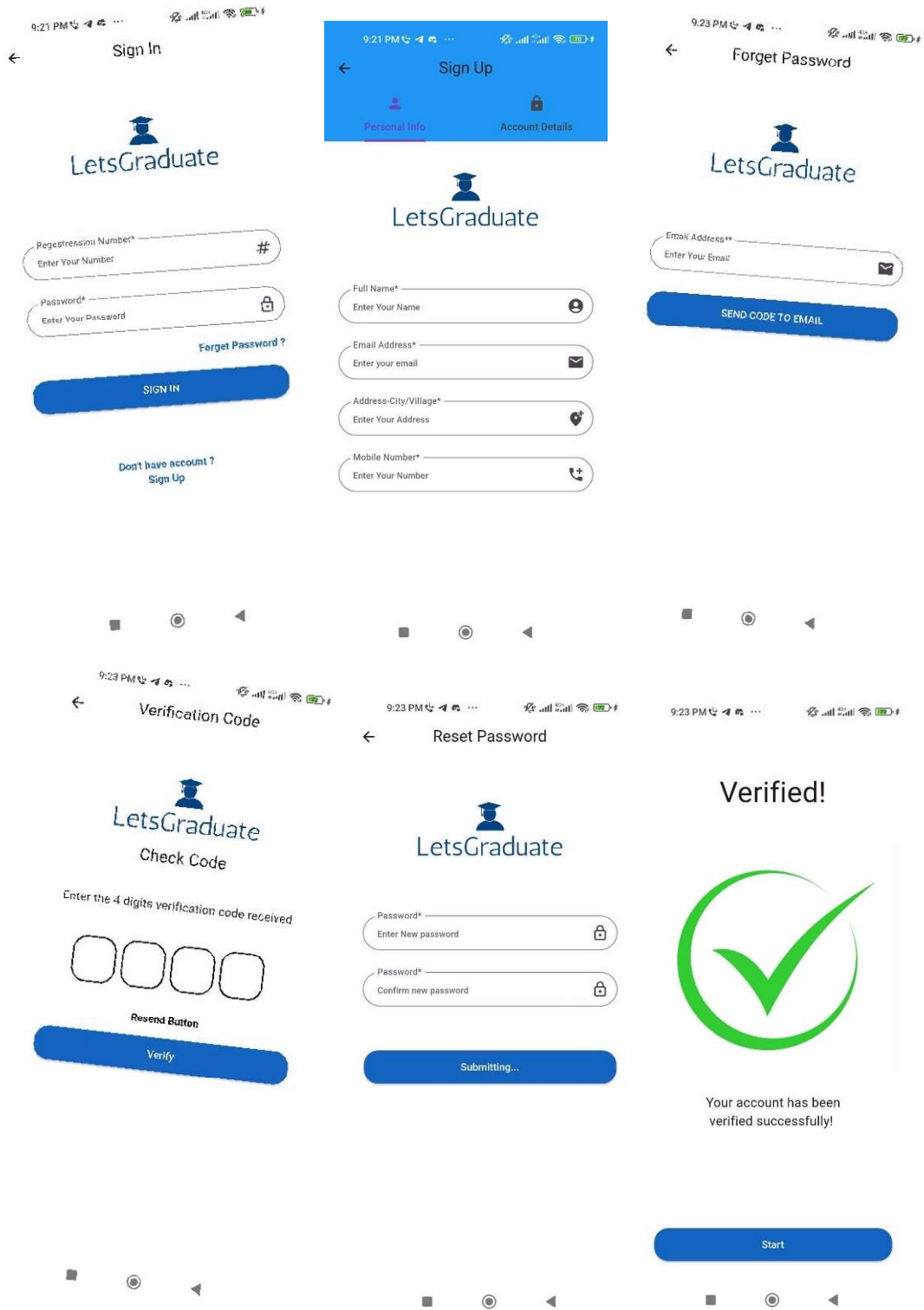
Maximum Number of Students per Project* 3	Maximum Number of Students per Supervisor* 10
Maximum Number of Projects per Supervisor* 5	Department Current Period (Current Stage)* evaluating-students
Supervising Doctors Abdallah Rashed - 1244, Manar Qamhiee - 1355, Haya Samaneh - 1366, Raed Qadi - 1377, Samer Arandi - 1495	Projects Committee Members Abdallah Rashed - 1244, Manar Qamhiee - 1355, Haya Samaneh - 1366, Raed Qadi - 1377

[CANCEL](#) [SAVE CHANGES](#)

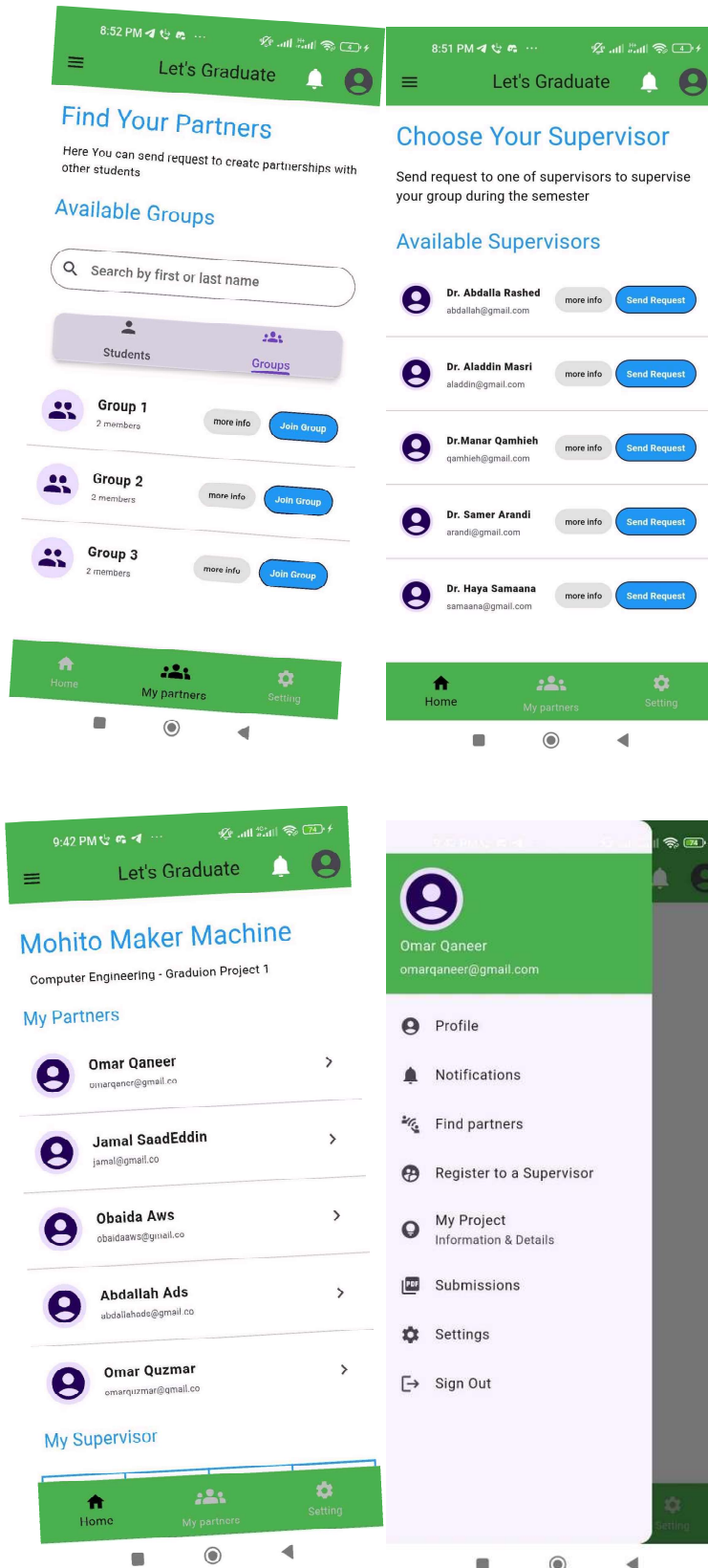
Copyright © LetsG

8.3 Mobile Application

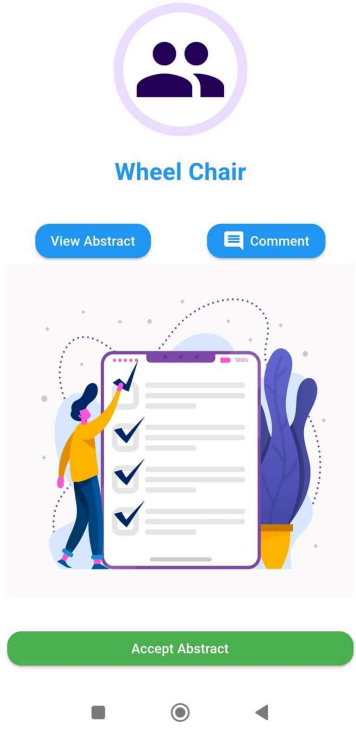
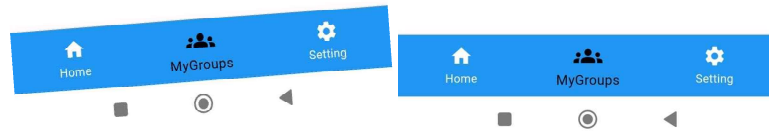
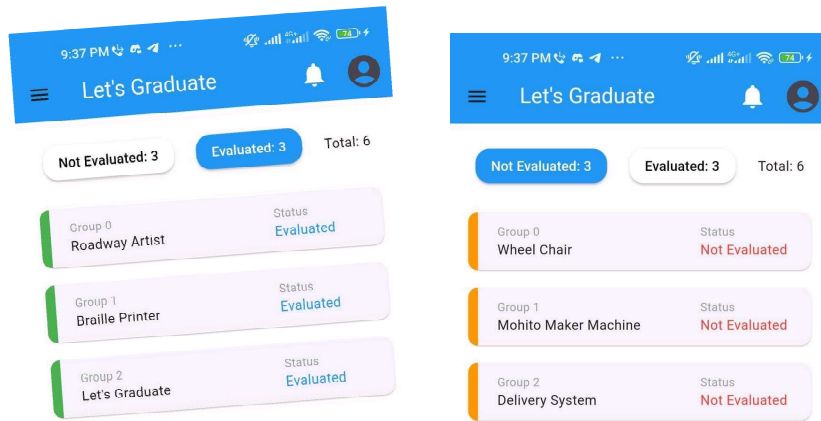
8.3.1 Authentication



8.3.2 Student Pages



8.3.3 Supervisor Pages

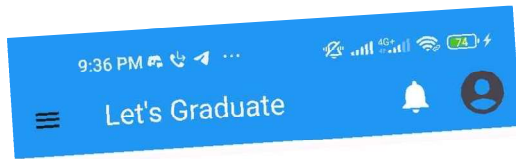


The image shows two screenshots of a mobile application interface for 'Let's Graduate'. Both screenshots show the time 9:36 PM and a battery level of 74%. The interface includes a header with a menu icon, the title 'Let's Graduate', a notification bell, and a user profile icon. Below the header, there are summary statistics: 'Not Submitted: 3', 'Submitted: 3', and 'Total: 6'. The main content area displays a list of groups with their names and submission status.


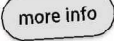

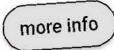

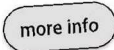
Group	Name	Status
Group 0	Roadway Artist	Submitted
Group 1	Braille Printer	Submitted
Group 2	Let's Graduate	Submitted
Group 0	Wheel Chair	Not Submitted
Group 1	Mohito Maker Machine	Not Submitted
Group 2	Delivery System	Not Submitted

This screenshot shows the bottom navigation bar of the mobile application. It features three icons: a house icon for 'Home', a group of people icon for 'MyGroups', and a gear icon for 'Setting'. The 'MyGroups' icon is currently selected and highlighted.

This screenshot shows the bottom navigation bar of the mobile application, identical to the previous one. It features three icons: a house icon for 'Home', a group of people icon for 'MyGroups', and a gear icon for 'Setting'. The 'MyGroups' icon is currently selected and highlighted.



My Groups

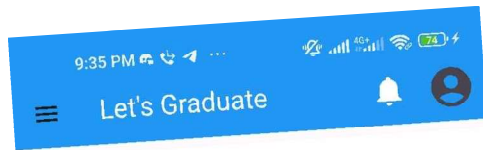
-  Group 0
2 members 
-  Group 1
2 members 
-  Group 2
2 members 



Click to see member details

-  Omar Quzmar
omarquzmar@gmail.co 
-  Yahia Arafat
yahiaarafat@gmail.co 





DR. Manar Qamhiee

Email Address
manarqamhiee@gmail.com

Academic Number
1394

Department
Computer Engineering

Address-City/Village
Nablus

Mobile Number
0594251789



Notifications

New

Group 1 is requesting you to supervise thier group
Mon at 7:03 AM

Dr. Manar Qamhiee accepted to supervise your group this semester
1 hours ago

Jamal SaadEideen is requesting to join your group
2 hours ago

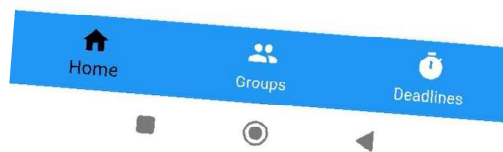
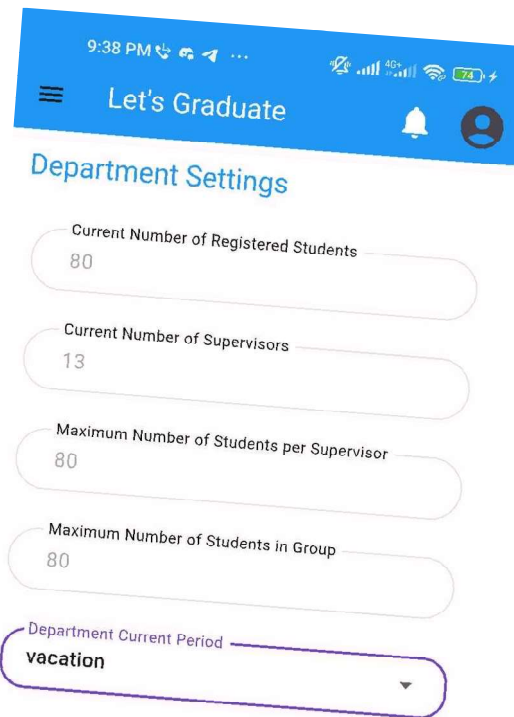
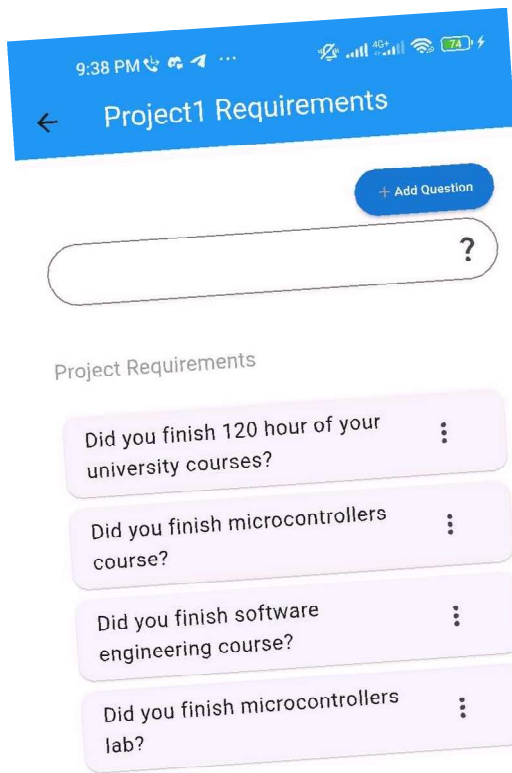
Projects Committe commented on your abstract
Mon at 7:03 AM

Before That

Group 1 is requesting you to supervise thier group
Mon at 7:03 AM



8.3.4 Department Manager



9. Results

1. Enhanced Collaboration and Networking:

- The system is expected to significantly boost collaboration among students by facilitating easy formation of partnerships. This could lead to more diverse and innovative project outcomes.

2. Improved Supervisor Accessibility and Communication:

- With transparent supervisor availability, students can more efficiently connect with faculty, leading to better guidance and mentorship, thereby improving the quality of graduation projects.

3. Streamlined Administrative Processes:

- The centralized submission and review platform is anticipated to expedite and simplify administrative tasks, reducing the time spent on bureaucratic processes.

4. Effective Feedback Mechanisms:

- The integrated feedback system should enable prompt and constructive feedback from supervisors, potentially enhancing the learning experience and project quality.

5. Automated Evaluation Process:

- The automation of abstract evaluations by the project committee is expected to speed up the approval process, making it more transparent and less prone to biases.

6. Increased Efficiency in Project Management:

- Overall, the system should lead to a more organized and efficient management of graduation projects, positively impacting both students' and supervisors' experiences.

10. Conclusion

10.1 Summary

The "Let's Graduate" system represents a significant leap in the management of graduation projects within the Faculty of Engineering. By digitalizing the process of project registration, partner formation, supervision connection, and abstract submission, it offers a streamlined, efficient approach to managing these critical academic tasks. This system not only simplifies administrative procedures but also enhances the overall educational experience for students and supervisors.

10.2 Improvements

The introduction of "Let's Graduate" has led to notable improvements in student collaboration, ease of communication between students and supervisors, and a reduction in time-consuming administrative tasks. The integrated feedback mechanism and automated evaluation process further contribute to a more transparent and effective academic environment. These enhancements are expected to result in higher-quality project outcomes and a more engaging educational journey.

10.3 Future Work

Looking ahead, the system could be expanded to include more interactive features, such as task management for creating tasks and managing them. Also we can make chatting system between users. Additionally, the system can have meetings operations between users.

10.4 Outcome

In conclusion, "Let's Graduate" stands as a transformative tool in the realm of academic project management. Its implementation is a testament to the power of digital solutions in enhancing educational processes and outcomes. As the system evolves and adapts, it promises to continue adding value to the academic experience of engineering students and faculty, paving the way for more innovative and efficient academic environments.

11. References

References

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2. Flutter Docs. Retrieved from [Flutter documentation | Flutter](#)
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