



كلية علوم الحاسوب والمعلومات  
College of Computer and Information Sciences

# (Adaptive learning Content Management System)

Date : 2023/9/16

Computer Science Department

Imam Mohammad Ibn Saud Islamic University

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Abdulhakim Almomem

Team Instructor: Dr.Saleh Alghamdi



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## **Project Initiation**



**01**  
**Project scope**

**02**  
**Objectives**

**03**  
**Challenges**

**04**  
**Vision**

# 01

## Project scope

- The project aims to develop an application that provides educational tutorials and enriching articles for university subjects, making access to educational content easy for both students in general and fresh students as well. This is specifically for the College of Computer and Information Sciences at Imam Muhammad bin Saud Islamic University
- The platform will provide a range of tools to simplify students' access to information, as well as interactive features to aid in improving student's academic performance



# 02 Objectives

- **Content Accessibility:** Ensure easy access to educational materials for all students.
- **Quality Resources:** Provide high-quality tutorials and articles to support learning.
- **User-Friendly Interface:** Create an intuitive platform for easy navigation.
- **Interactivity:** Engage students with interactive tools.
- **Academic Support:** Improve students' academic performance by helping them find excellent content without the need for expensive private tutors.
- **Scalability:** Plan for future growth and content expansion.
- **Feedback System:** Gather user feedback for continuous improvement.
- **Preventing Course Dropouts:** Help students avoid dropping or withdrawing from courses.



# 03

## Challenges

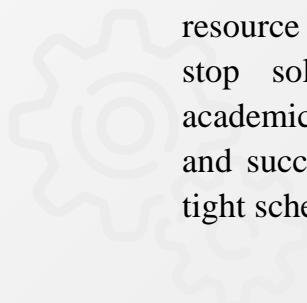
- **Inexperience in Mobile App Development:** Overcoming a lack of mobile app development experience.
- **Tight Deadlines:** Meeting project schedules with limited time.
- **Resource Limitations:** Addressing constraints like team skills and tools to succeed.



# 04

## Vision

Our vision for the platform is to create a robust and user-centric educational hub that offers easy access to high-quality course materials. We aim to empower students by providing interactive content, fostering peer-to-peer interactions, and offering a comprehensive resource library. Our platform will be a one-stop solution, helping students overcome academic challenges, access excellent content, and succeed in their courses while respecting tight schedules and limited resources.





## Product Backlog Creation

**05**

## Functional Requirements

**06**

## Non-Functional Requirements

**07**

## Product Backlogs

**08**

## Sprint Progress

# 05

# Functional Requirements

## User Registration



- Allow new users to register with their personal information.
- Verify user credentials to ensure authenticity.



## Progress Tracking

- Allow students to track their progress in each course.
- Provide visual indicators of course completion status.



## Discussion Forum

- Include a discussion forum for students to interact and ask questions related to the courses.
- Facilitate collaboration and knowledge sharing among students.



## Notifications

- Send notifications and reminders to students about upcoming deadlines, exams, or important course updates.

## User Profile



- Provide a profile page for each user to manage their information.
- Allow users to update their profile.



## Video Content Integration

- Integrate YouTube API to fetch and display educational videos relevant to each course.
- Ensure seamless playback and video quality.



## User Feedback

- Enable students to provide feedback and ratings



## Course Recommendation

- Provide personalized course recommendations based on user preferences.
- Utilize algorithms to suggest relevant courses to new students.

# 06

# Non-Functional Requirements



## Performance

The CMS should have fast page load times and efficient database queries.

## Scalability

The system should be scalable to handle increased content and user traffic.

## Reliability

Ensure high availability with minimal downtime.

Implement error handling and recovery mechanisms.

## Usability

Provide an intuitive and user-friendly interface.

Support accessibility standards for users with disabilities.

## Compatibility

Ensure compatibility with major web browsers and mobile devices.

Support different operating systems if applicable.

## Security

Protect user data and content from unauthorized access.

Regularly update and patch security vulnerabilities.

# 07

## Product Backlogs



	A	B	C	D	E	F	G
1	Sprint Number	User Story	User Story Title	Brief Description	Additional Info	Priority	Status
2	1	S1	User Profile	As a user, I want a profile page to manage my information, including profile picture and contact details, so that I can keep my information		1-high	In Progress
3	1	S2	Course Catalog	As a student, I want a comprehensive course catalog with categorization and detailed course information so that I can explore and		1-high	In Progress
4	1	S3	Course Recommendations	As a student, I want a user-friendly interface for course selection and registration to easily enroll in the courses I've chosen.		2-medium	In Progress
5	1	S4	(Goat GPT)	As a student, I want an AI to answer my questions instantly		3-low	In Progress
6	2	S5	User Registration	As a new user, I want to register with my personal information so that I can access the app's features and courses.		1-high	To Do
7	2	S6	Course Enrollment	As a student, I want educational videos integrated into the app, organized by courses and with excellent playback quality, so that I can		3-low	To Do
8	2	S7	Video Content Integration	As a student, I want to track my progress in each course, including completed modules, quizzes, assignments, and grades, to monitor my		2-medium	To Do
9	2	S8	Progress Tracking	As a student, I want a discussion forum to interact with peers and ask questions related to courses for collaborative learning.		3-low	To Do
10	2	S9	Discussion Forum	As a student, I want to receive notifications and reminders about deadlines, exams, and course updates to stay organized and informed.		3-low	To Do
11	2	S10	Notifications and Reminders	As a student, I want to provide feedback and ratings for courses and instructors to help improve the overall quality of education.		2-medium	To Do
12	2	S11	User Support	As a user, I want access to user support through a contact form or live chat for assistance with any app-related issues.		2-medium	To Do
13	3	S12	Multilingual Support	As a user, I want the app to support multiple languages so that I can use it in my preferred language for a better user experience.		3-low	To Do
14	3	S13	Search Engine			2-medium	To Do
15	3	S14	Achievement Page			2-medium	To Do
16						3-low	To Do

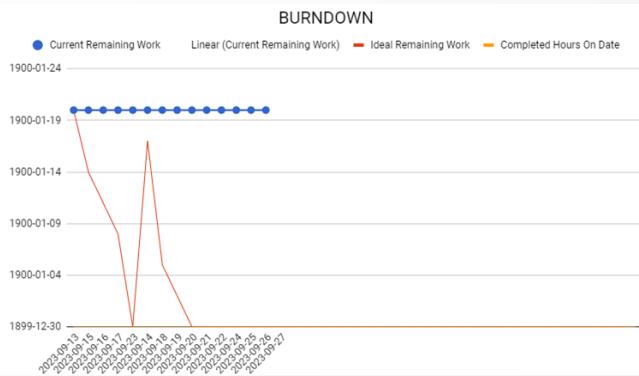




# 08

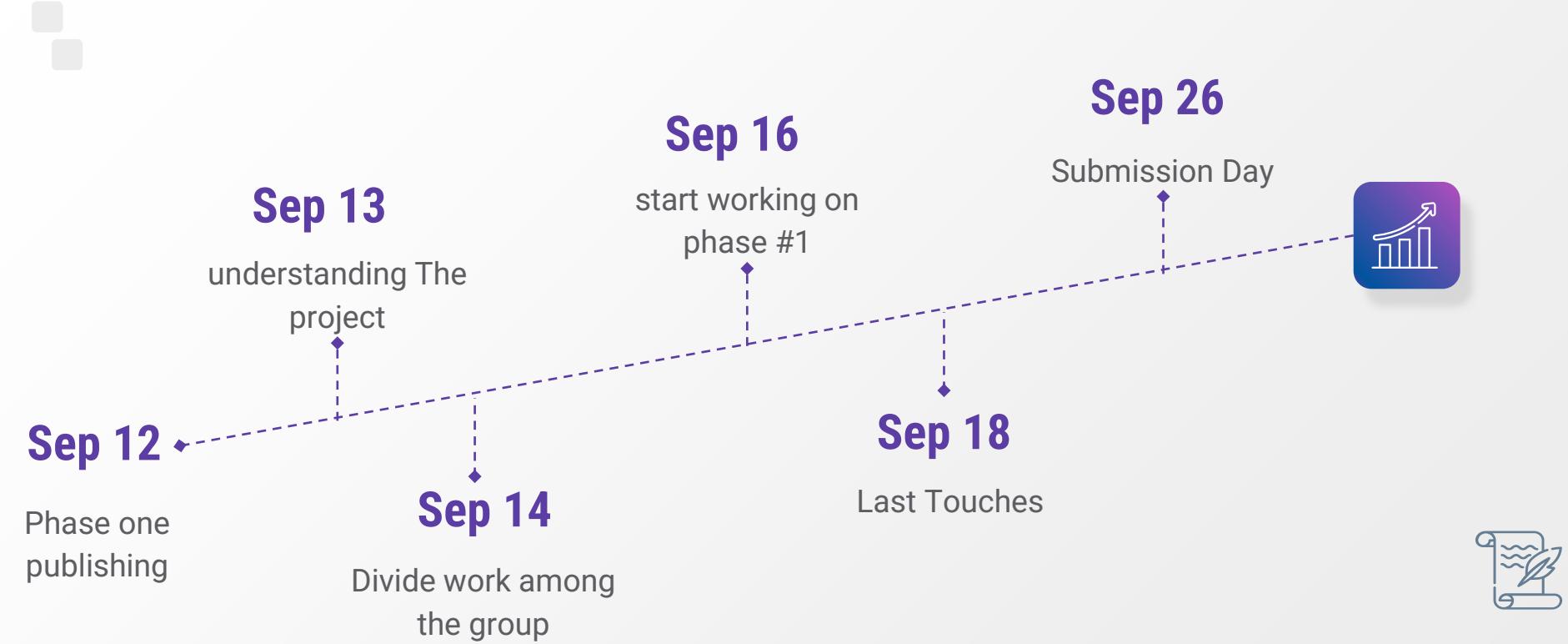
## Sprint Progress (Ph1)

A	B	C	D	E	F	G
1	User Story Task	Expected	Actual	Person	Status	Date Complete
2	S0 Brief description				To Do	
3	S1 Develop a comprehensive profile page that enables users to manage their information effectively	4		abdulhakim	In Progress	
4	S2 create a robust catalog system	3		salman	In Progress	
5	S3 create an intuitive interface for course selection and registration to simplify the enrollment process.	3		SalehAlobaylan	In Progress	
6	S4 Connect chatgpt with The app	2		saud	In Progress	
7	S5 Design a registration page that allows new users to create an account and access the app's features and courses	6		abdulhakim	To Do	
8	S6 integrate educational videos into the app, organized by courses, to provide students with easy access to supplementary materials	6		salehalbatti	To Do	
9	S7 develop a course progress tracking system to help students monitor their academic performance.	4		saud	To Do	
10	S8 To facilitate collaborative learning, create a discussion forum where students can interact with their peers and ask questions related to courses.	6		salman	To Do	
11	S9 develop a notification system to keep students informed about deadlines, exams, and course updates.	5		omar	To Do	
12	S10 implement a system that allows students to provide feedback and ratings for courses and instructors.	3		SalehAlobaylan	To Do	
13					To Do	



Sprint Number	1	Person	Hours Assigned	Hours Complete	Percentage Complete
Sprint Length	14	SalehAlobaylan	6	0	0%
Hours Per Day	3.00	salman	9	0	0%
		saud	6	0	0%
Start Date:	2023-09-13	salehalbatti	6	0	0%
		abdulhakim	10	0	0%
		omar	5	0	0%
		Total:	21	0	0%

# Timeline





**System Model**

**09**

**Use case Diagram**

**10**

**Sequence Diagram**

**11**

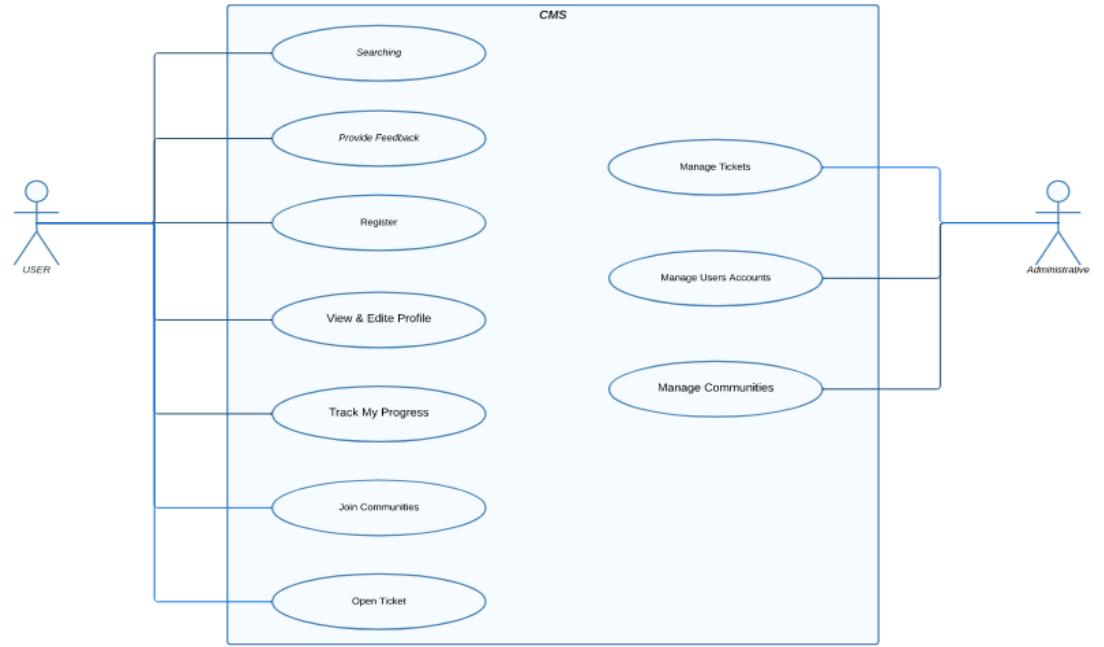
**Class Diagram**

**12**

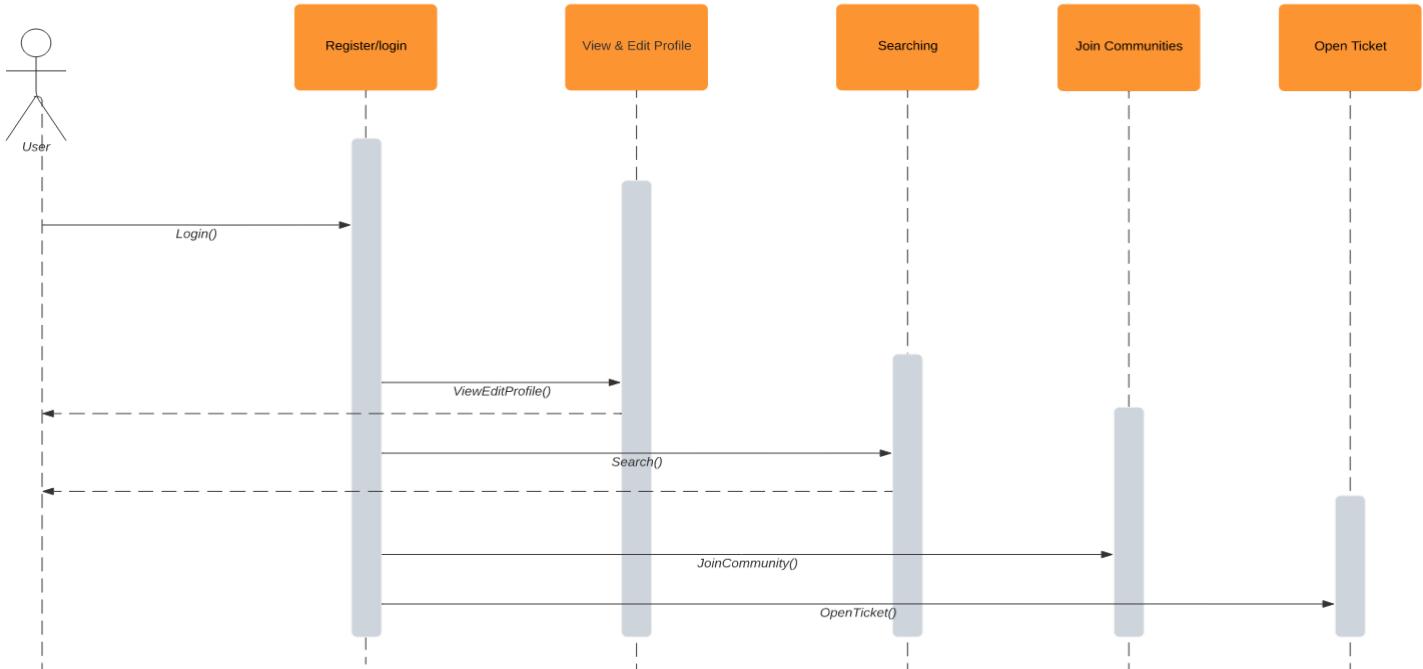
**Activity Diagram**

# 09

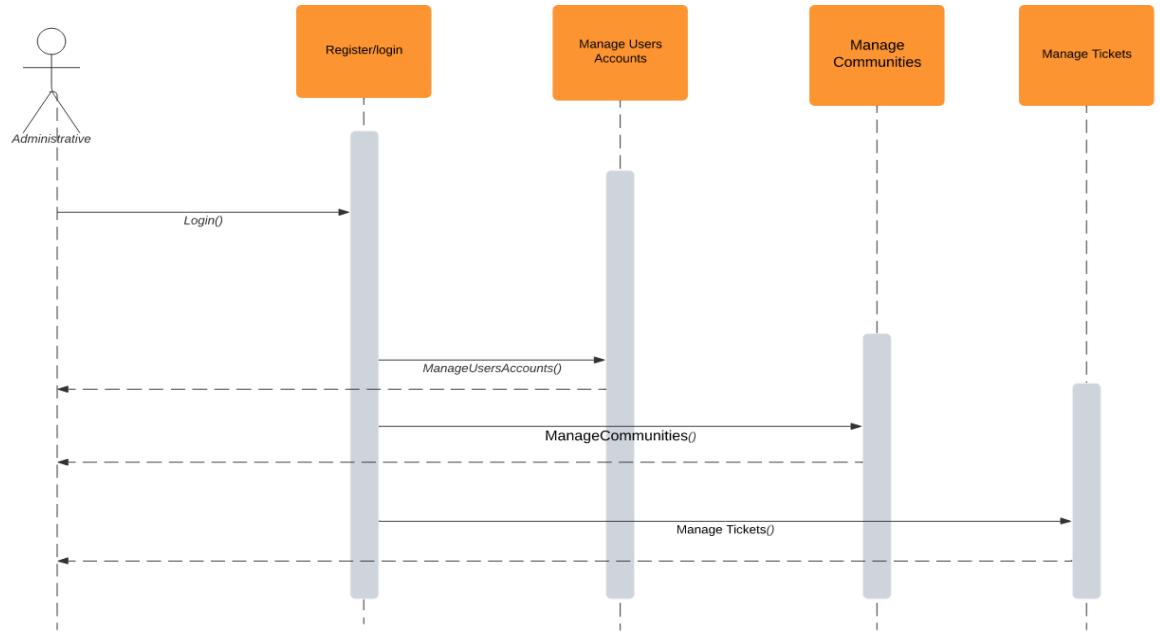
## Use Case Diagram



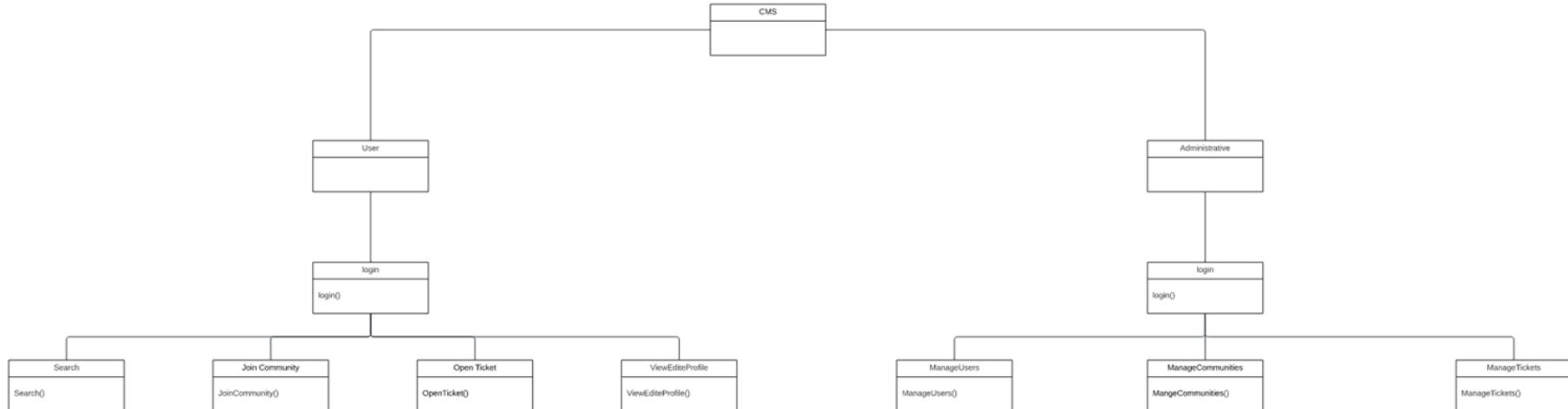
# 10.1 Sequence Diagram



## 10.2 Sequence Diagram

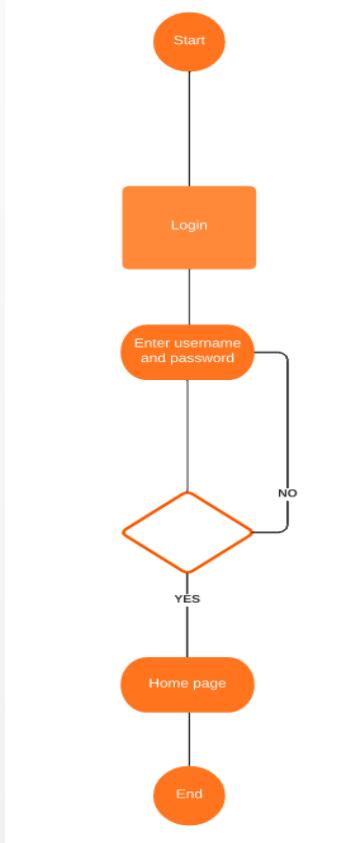


# 11 Class Diagram



# 12

## Activity Diagram

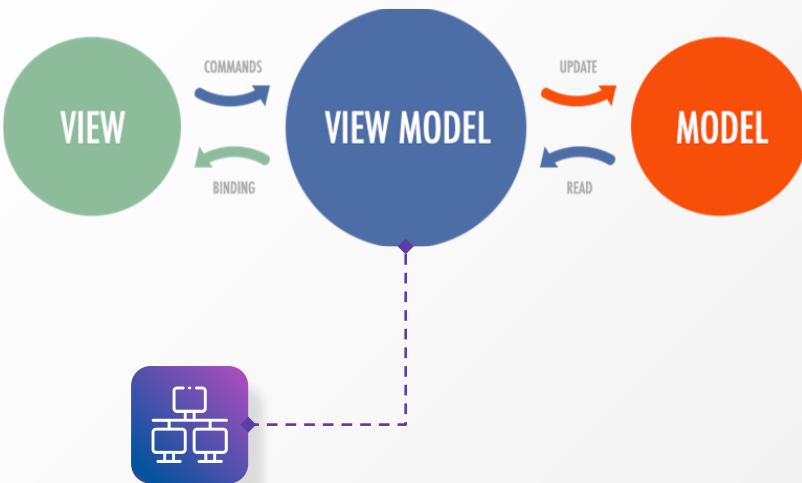


# Architectural Pattern

# MVVM Pattern

Reasons:

- **Clear Separation:** MVVM cleanly separates the application into Model, View, and ViewModel, crucial for managing diverse content and features in our educational platform.
- **Reactive Compatibility:** MVVM aligns seamlessly with Flutter, our chosen framework, and its support for reactive programming. This is essential for real-time features and user engagement.
- **Testability:** MVVM enables efficient unit testing of core logic, ensuring a reliable and maintainable platform.
- **Ease of Collaboration:** MVVM simplifies collaboration among developers as they can work on different aspects of the application independently. This fosters productivity and ensures seamless integration of features.
- **Scalability:** MVVM's modular structure supports the future expansion of content and features, making it an ideal choice for a dynamic educational platform.



## Sprint 2 Progress



13	Product Backlogs	14	Sprint 2 sheet
15	Search Functionality	16	Rfeeq GPT Functionality
17	Registration Page	18	Achievements System

# 13 Product Backlogs



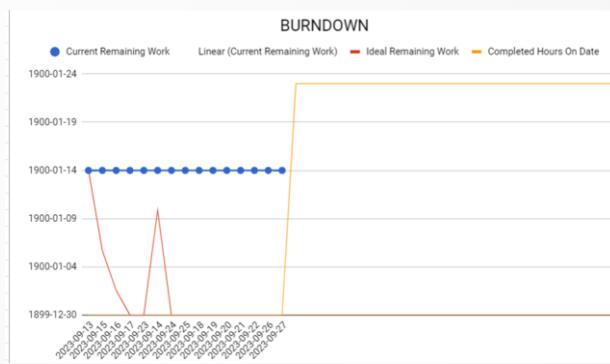
A	B	C	D	E	F	G
2	1 S1	User Profile	As a user, I want a profile page to manage my information, including profile picture and contact details, so that I can keep my information	1-high	In Progress	
3	1 S2	Course Catalog	As a student, I want a comprehensive course catalog with categorization and detailed course information so that I can explore and choose	1-high	In Progress	
4	1 S3	Course Recommendation	As a student, I want a user-friendly interface for course selection and registration to easily enroll in the courses I've chosen.	2-medium	In Progress	
5	1 S4	(Goat GPT)	As a student, I want an AI to answer my questions instantly	3-low	Done	
6	2 S5	User Registration	As a new user, I want to register with my personal information so that I can access the app's features and courses.	1-high	Done	
7	2 S6	Search Engine	As a user, I want to search for specific Course or a subject in the course	2-medium	Done	
8	2 S7	Achivement System	As a Student, I want a system that encourage me to use the different features in the CMS	2-medium	In Progress	
9	3 S8	Progress Tracking	As a student, I want educational videos integrated into the app, organized by courses and with excellent playback quality, so that I can	3-low	To Do	
10	3 S9	Video Content Integration	As a student, I want to track my progress in each course, including completed modules, quizzes, assignments, and grades, to monitor my	2-medium	To Do	
11	3 S10	Discussion Forum	As a student, I want a discussion forum to interact with peers and ask questions related to courses for collaborative learning. (Communities)	3-low	To Do	
12	3 S11	Notifications and Reminders	As a student, I want to receive notifications and reminders about deadlines, exams, and course updates to stay organized and informed.	3-low	To Do	
13	3 S12	FeedBacks and rating	As a student, I want to provide feedback and ratings for courses and instructors to help improve the overall quality of education.	2-medium	To Do	
14	3 S13	User Support	As a user, I want access to user support through a contact form or live chat for assistance with any app-related issues.	2-medium	To Do	
15	3 S14	Multilingual Support	As a user, I want the app to support multiple languages so that I can use it in my preferred language for a better user experience.	3-low	To Do	





# 14 Sprint 2 sheet

1	User Story Task	Expected	Actual	Person	Status
2	S0	Brief description			To Do
3	S1	Develop a comprehensive profile page that enables users to manage their information effectively	4	abdulhakim	In Progress
4	S2	create a robust catalog system	3	salman	In Progress
5	S3	create an intuitive interface for course selection and registration to simplify the enrollment process.	3	SalehAlbaylan	In Progress
6	S4	Connect chatgpt with The app	2	3 saud	Done
7	s5	Design a registration page that allows new users to create an account and access the app's features and courses	6	2 saud	Done
8	S5	Design a registration page that allows new users to create an account and access the app's features and courses	6	2 SalehAlbaylan	Done
9	S6	develop Search engine	4	3 saud	Done
10	s7	build an achivement system	2	2 salman	Done
11	s7	build an achivement system	2	2 SalehAlbaylan	Done
12	S7	build an achivement system	2	2 saud	Done
13	S8	integrate educational videos into the app, organized by courses, to provide students with easy access to supplementary materials	6	salehhalbatti	To Do
14	S9	develop a course progress tracking system to help students monitor their academic performance.	4	saud	To Do
15	S10	To facilitate collaborative learning, create a discussion forum where students can interact with their peers and ask questions related to courses.	6	salman	To Do
16	S11	develop a notification system to keep students informed about deadlines, exams, and course updates.	5	omar	To Do
17	S12	implement a system that allows students to provide feedback and ratings for courses and instructors.	3	SalehAlbaylan	To Do
18	S13	User Support			To Do
19	S14	provide an another language for the app (Multilingual Support)			To Do



Sprint Number	1
Sprint Length	14
Hours Per Day	4,14

Person	Hours Assigned	Hours Complete	Percentage Complete
SalehAlObaylan	14	8	57%
salman	11	2	18%
saud	18	14	78%

Start Date: 2023-09-13

salehalbatti 6 0 0%

abdulhakim	4	0	0%
omar	5	0	0%
Total:	15	0	0%

# 15

## Search Functionality

```
1 import os
2 import googleapiclient.discovery
3 import json
4
5 # Replace 'YOUR_API_KEY' with your actual API key
6 api_key = 'AIzaSyDKC-njsEWzj32V9qt9260SGT7fw9zPlIM'
7
8
9 def search_youtube(query):
10     youtube = googleapiclient.discovery.build('youtube', 'v3', developerKey=api_key)
11
12     # Define the search request
13     request = youtube.search().list(
14         q=query,
15         type='playlist', # You can change this to 'channel', 'playlist', etc. if needed
16         part='id,snippet',
17         maxResults=10 # You can adjust the number of results you want
18     )
19
20     response = request.execute()
21     # print(response)
22     # Print the search results
23     for item in response['items']:
24         playlist_id = item['id']['playlistId']
25         videoInfo = item['snippet']
26         title = videoInfo["title"]
27         channel_title = videoInfo["channelTitle"]
28         publishTime = videoInfo["publishedTime"]
29         print("Video Title: " + title)
30         print("Video channel Title: " + channel_title)
31         print("Video publish Time : (" + publishTime + ")")
32         print("Video URL: https://www.youtube.com/watch?v=" + (playlist_id))
33         print()
34
35 if __name__ == "__main__":
36     search_query = input("Enter your Youtube search query: ")
37     search_youtube(search_query)
38
```

```
1 Video Title: Calculus 1 (Full Length Videos)
2 Video channel Title: Professor Leonard
3 Video publish Time : 2012-05-23T17:21:47Z
4 Video URL: https://www.youtube.com/watch?v=PLF797E961509B4EB5
5
6 Video Title: مسلسل فرق بـ ١٠ ♥ calculus 2 ♥
7 Video channel Title: Ibrahim Okkeh
8 Video publish Time : 2016-11-20T22:55:10Z
9 Video URL: https://www.youtube.com/watch?v=PLVgrGgkWLpZa6DFlg51Jaa6Lbj3_4FF7F
10
11 Video Title: calculus 1
12 Video channel Title: Mariya Panacheva
13 Video publish Time : 2016-12-11T21:37:02Z
14 Video URL: https://www.youtube.com/watch?v=Plqob8Sbi8CzUHhl5E8ciVOMz5LWrR37_
15
16 Video Title: Calculus 2022 - حساب التفاضل والتكامل
17 Video channel Title: Dr. Ahmed Hagag
18 Video publish Time : 2022-03-11T13:56:43Z
19 Video URL: https://www.youtube.com/watch?v=PLxIvc-MG0s6gkSl_PPAVJpebKDLo-1jEC
20
21 Video Title: Calculus 1 Chi
22 Video channel Title: Mohammed Maatouq
23 Video publish Time : 2019-10-29T13:42:55Z
24 Video URL: https://www.youtube.com/watch?v=PLSI0UiPM_H6RT8x7lryh0exrG-2948XR
25
26 Video Title: Calculus 1
27 Video channel Title: bayan abu-hammar
28 Video publish Time : 2018-06-30T12:47:33Z
29 Video URL: https://www.youtube.com/watch?v=PL0PYi6T54hooPNA142Kvcag-UM15iczfQ
```

# 16

## Rfeeq GPT Functionality



```
1 import os
2 import openai
3
4 openai.api_key = "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"
5 # print(openai.Model.list())
6 prompt = input("Enter your prompt: ")
7 completion = openai.ChatCompletion.create(model="gpt-3.5-turbo", messages=[{"role": "user", "content": prompt}])
8 print(completion.choices[0].message.content)
9
```



1 Enter your prompt: write me a python program that prints hello

2 Sure! Here's a simple Python program that prints "Hello":

3

4 # Print "Hello"

5 print("Hello")

6

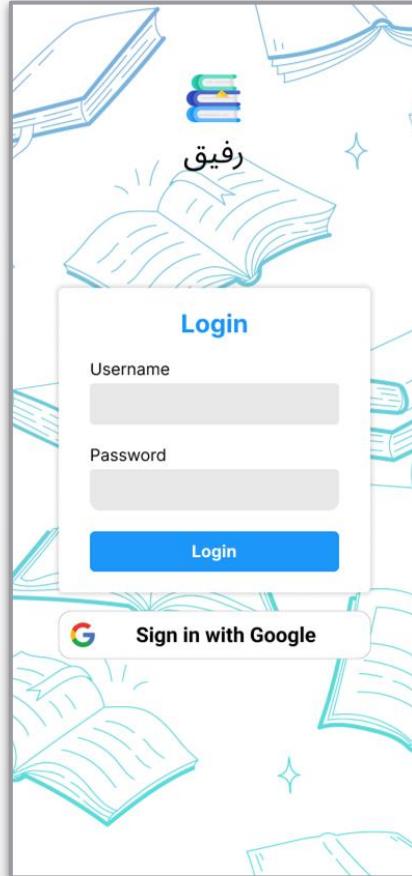
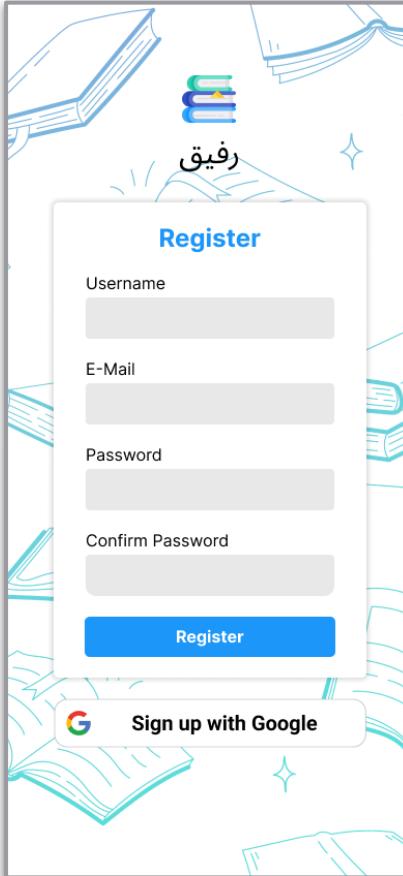
7 When you run this program, it will output:

8

9 Hello

17

## Registration Page



# 18

## Achievement System

It's a mechanism that reward users for completing specific tasks, challenges, and courses to encourage users to use all CMS features

Complete 3 Courses



Complete 10 Courses



Complete 30 Courses



Active for 15 Days



Active for 30 Days



Active for 2 Months



Attempt 5 Community recommendations



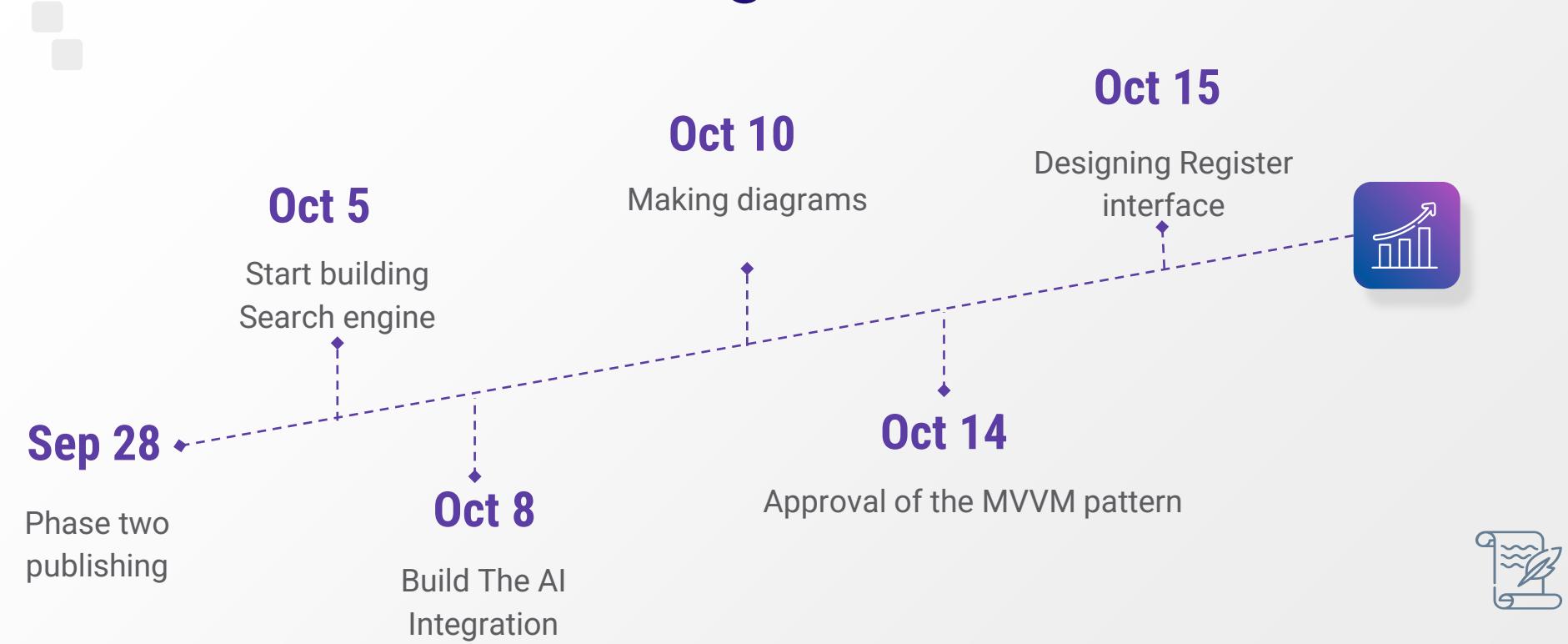
Attempt 15 Community recommendations



Attempt 20 Community recommendations



# Meetings Timeline



**19**

**Github**



**20**

**Product Backlogs**

**21**

**Sprint 3 sheet**

**Project implementation**

**22**

**Search Engine Page**

**23**

**Test Cases**

# 19 Github

Rafeq Public

main 2 branches 0 tags

Go to file Add file Code

SaudAlhafith Update searchEngine.js 1684e88 21 minutes ago 39 commits

AppFiles GchangeBG 7 hours ago

js Update searchEngine.js 21 minutes ago

style finishes everything 2 hours ago

index.html path to searach page fixed 1 hour ago

searchPage.html search 29 minutes ago

Help people interested in this repository understand your project by adding a README. Add a README

About

No description, website, or topics provided.

Activity 1 star 1 watching 1 fork Report repository

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Contributors 2

Salehabolian Saleh

SaudAlhafith

Deployments 11

github-pages 21 minutes ago + 10 deployments

Languages

JavaScript 45.5% CSS 31.0%

HTML 23.5%

CHECK

Merge pull request #1 from PY-MAD/main c1c7a73

SaudAlhafith committed 23 minutes ago

Update searchEngine.js f24672f

SaudAlhafith committed 24 minutes ago

search e880ccf

PY-MAD committed 26 minutes ago

DSADASD f3cf244

PY-MAD committed 33 minutes ago

fixing 462266

SaudAlhafith committed 1 hour ago

if the course name is incorrect ec14a50

SaudAlhafith committed 1 hour ago

clear result if error c35cef

SaudAlhafith committed 1 hour ago

path to searach page fixed adcc7db

SaudAlhafith committed 1 hour ago

new Date format 98ae292

SaudAlhafith committed 1 hour ago

finishes everything 82f9860

SaudAlhafith committed 2 hours ago

Commits on Oct 28, 2023

add translate functionality 9963f58

SaudAlhafith committed 3 hours ago

done with the Search UI 6490ceb

SaudAlhafith committed 4 hours ago

added the fields to search e6d0071

SaudAlhafith committed 4 hours ago

some style fixes f69d5eb

SaudAlhafith committed 6 hours ago

Merge branch 'main' of https://github.com/SaudAlhafith/Rafeq 0da2bf4

Salehabolian committed 7 hours ago

GchangeBG 795ee4b

Salehabolian committed 7 hours ago

change rafeeq.html to index.html 04f7212

SaudAlhafith committed 7 hours ago

First commit b34a2ee

Salehabolian committed 8 hours ago

A c48090e

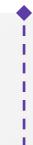
Commits on Oct 27, 2023

Salehabolian committed yesterday

# 20 Product Backlogs



A	B	C	D	E	F	G
Sprint Number	User Story	User Story Title	Brief Description	Additional Info	Priority	Status
1	S1	User Profile	As a user, I want a profile page to manage my information, including profile picture and contact details, so that I can keep my information		1-high	In Progress
1	S2	Course Catalog	As a student, I want a comprehensive course catalog with categorization and detailed course information so that I can explore and choose		1-high	Done
1	S3	Course Recommendation System	As a student, I want a user-friendly interface for course selection and registration to easily enroll in the courses I've chosen.		2-medium	In Progress
1	S4	(Goat GPT)	As a student, I want an AI to answer my questions instantly		3-low	Done
2	S5	User Registration	As a new user, I want to register with my personal information so that I can access the app's features and courses.		1-high	Done
2	S6	Search Engine	As a user, I want to search for specific Course or a subject in the course		2-medium	Done
2	S7	Achievement System	As a student, I want a system that encourages me to use the different features in the CMS		2-medium	Done
3	S8	Progress Tracking	As a student, I want educational videos integrated into the app, organized by courses and with excellent playback quality, so that I can		3-low	In Progress
3	S9	Video Content Integration	As a student, I want to track my progress in each course, including completed modules, quizzes, assignments, and grades, to monitor my		2-medium	In Progress
3	S10	Discussion Forum	As a student, I want a discussion forum to interact with peers and ask questions related to courses for collaborative learning. (Communities)		3-low	In Progress
3	S11	Notifications and Reminders	As a student, I want to receive notifications and reminders about deadlines, exams, and course updates to stay organized and informed.		3-low	In Progress
3	S12	Feedbacks and ratings	As a student, I want to provide feedback and ratings for courses and instructors to help improve the overall quality of education.		2-medium	In Progress
3	S13	User Support	As a user, I want access to user support through a contact form or live chat for assistance with any app-related issues.		2-medium	In Progress
3	S14	Multilingual Support	As a user, I want the app to support multiple languages so that I can use it in my preferred language for a better user experience.		3-low	In Progress
					3-low	To Do
					3-low	To Do
					3-low	To Do

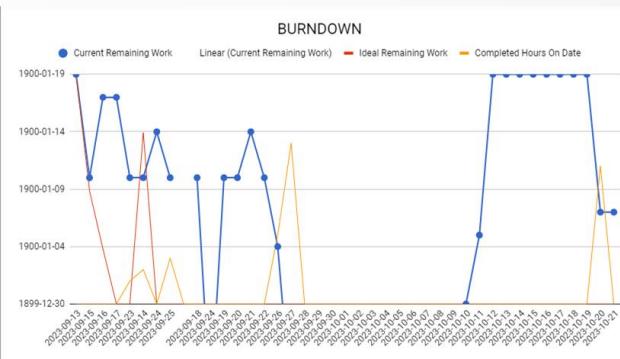


# 21

## Sprint 3 sheet



	User Story Task	Expected	Actual	Person	Status	Date Completed
1	S0 Brief description				To Do	
2	S1 Develop a comprehensive profile page that enables users to manage their information effectively	4	7	abdulhakim	In Progress	2023-09-17
3	S2 create a robust catalog system	3	salman		In Progress	2023-09-13
4	S3 create an intuitive interface for course selection and registration to simplify the enrollment process.	3	5	SalehAlobaylan	Done	2023-09-14
5	S4 Connect chatgpt with The app	2	3	saud	Done	2023-09-22
6	S5 Design a registration page that allows new users to create an account and access the app's features and courses	6	2	saud	Done	2023-09-27
7	S6 Design a registration page that allows new users to create an account and access the app's features and courses	6	2	SalehAlobaylan	Done	2023-09-27
8	S7 develop Search engine	4	3	saud	Done	2023-09-25
9	S7 build an achivment system	2	2	salman	Done	2023-09-26
10	S7 build an achivment system	2	2	SalehAlobaylan	Done	2023-09-27
11	S7 build an achivment system	2	2	saud	Done	2023-09-26
12	S8 integrate educational videos into the app, organized by courses, to provide students with easy access to supplementary materials	6	6	saud	Done	2023-10-20
13	S8 integrate educational videos into the app, organized by courses, to provide students with easy access to supplementary materials	6	6	SalehAlobaylan	Done	2023-10-20
14	S9 develop a course progress tracking system to help students monitor their academic performance.	4	2	salehalbatti	In Progress	
15	S10 To facilitate collaborative learning, create a discussion forum where students can interact with their peers and ask questions related to courses.	6	6	salman	In Progress	
16	S11 develop a notification system to keep students informed about deadlines, exams, and course updates.	5	3	salehalbatti	In Progress	
17	S12 implement a system that allows students to provide feedback and ratings for courses and instructors.	3	3	SalehAlobaylan	In Progress	
18	S13 User Support	3	3	salehalbatti	In Progress	



Sprint Number	1
Sprint Length	14
Hours Per Day	5.07

Start Date: 2023-09-13

Person	Hours Assigned	Hours Complete	Percentage Complete
SalehAlobaylan	20	17	85%
salman	11	2	18%
saud	20	20	100%

salehalbatti 14 2 14%

abdulhakim	6	0	0%
omar	0	0	0%
omar	0	0	0%
Total:	20	2	10%

# 22 Search Engine Page

VISIT US



Search Query	Result Preview	Result Preview	Result Preview
Eng Software	<p>#01 SOFTWARE ENGINEERING FULL COURSE FOR FREE INTRODUCTION</p> <p>Software Engineering Full Course</p> <p>Channel: SECourses</p> <p>Published: 14-10-2020</p> <p><a href="#">View Playlist</a></p>	<p>Introduction to Trees</p> <p>mycodeschool.com</p>	<p>1.6M+ VIEWS</p> <p>First Come First Serve (FCFS)</p> <p>CPU Scheduling Algorithm</p> <p>L-2.3: First Come First Serve(FCFS) CPU Scheduling Algorithm with Example</p> <p>Channel: Gate Smashers</p> <p>Published: 19-05-2018</p> <p><a href="#">View Video</a></p>
Eng Data Structures	<p>Data Structures: Introduction to Trees</p> <p>Channel: mycodeschool</p> <p>Published: 12-01-2014</p> <p><a href="#">View Video</a></p>	<p>Software Engineering Basics</p> <p>Software Engineering</p>	<p>Data Structures</p> <p>Introduction to Trees</p> <p>#018 [Data Structures] - Introduction To Trees</p>
Eng OS	<p>FCFS(First Come First Serve) CPU Scheduling Algorithm with</p> <p>STUDYING IN JNU'S LECTURES CS/IT NET&amp;JRF for full syllabus</p>		

# 23

## Use Case Testing



search box engine Test Case

Test ID	Test Data	Expected Result	Actual Result	Status
0	courseID - course name - subject name	the result we expect	the result that we got	status of the test case
1	عال - البرمجة الشيئية (empty)	java 2 video and/or playlist	java 2 video and/or playlist	pass
2	عال - البرمجة الشيئية (space)	normal videos and/or playlists	in english there is results / in arabic no result (error (enter the subject name in arabic ))	fail
3	عال - تصميم المنطق الرقمي - 9834 (random number)	if there is no related videos nothing shows up (error: wrong subject name )	unrelated videos shows up	fail
4	عال - البرمجة الشيئية - oop	oop video and/or playlist	oop video and/or playlist shows up	pass
5	عال - البرمجة الشيئية - oop	in english the result will be oop videos/playlists / in arabic an error should occur saying the subject	oop video and/or playlist shows up	pass
6	عال - البرمجة الشيئية - (empty)	error wrong course name or ID	videos with course name shows up	fail
7	عال - البرمجة الشيئية - (empty)	in english the result title will be in english / in arabic result title will show up in arabic	the video/playlist shows with the selected language	pass



## Risk Management

24	Risk Identification	25	Risk analysis
26	Risk mitigation	27	Risk monitoring
28	Profile page	29	Product backlogs AND sprint 4 sheet

# 24 Risk Identification

## Technical Risks

Risk of the system not being able to handle a large amount of content

Potential performance issues, such as slow loading content

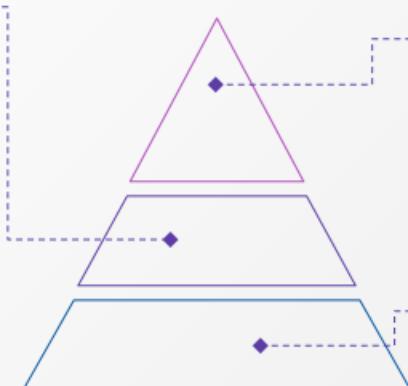
## External Risks

Changes in regulations or compliance standards that may impact the platform functionality or how it handles data

## Operational Risks

Security vulnerabilities that could expose user data to unauthorized access

Insufficient feedback and ratings from users, making it difficult to improve the platform



# 25

## Risk Analysis



Risk Event	Likelihood	Impact	Risk Level	Priority
Technical Risks				
System Handling Large Content/High Users	3 - Medium	4 - High	12	High
Potential Performance Issues	4 - High	3 - Medium	12	High
Operational Risks				
Insufficient Feedback and Ratings	3 - Medium	3 - Medium	9	Medium
Security Vulnerabilities	3 - Medium	4 - High	12	High
External Risks				
Changes in Regulations/Compliance Standards	3 - Medium	4 - High	12	High

# 26

## Risk Mitigation

Risk Event	Impact	Likelihood	Mitigation Strategies
<b>Technical Risks</b>			
System Handling Large Content/High Users	High	Medium	<ul style="list-style-type: none"> <li>- Conduct thorough load testing to identify system limitations.</li> <li>- Implement scalable architecture and utilize cloud services for resource scalability.</li> <li>- Regularly monitor system performance and optimize as needed.</li> </ul>
Potential Performance Issues	Medium	High	<ul style="list-style-type: none"> <li>- Optimize database queries and ensure efficient data retrieval.</li> <li>- Implement caching mechanisms for frequently accessed content.</li> <li>- Regularly perform performance testing to identify and address bottlenecks.</li> </ul>

Operational Risks			
Insufficient Feedback and Ratings	Medium	Medium	<ul style="list-style-type: none"> <li>- Implement user-friendly feedback mechanisms.</li> <li>- Encourage users to provide ratings and comments.</li> <li>- Actively analyze feedback and use it for continuous improvement.</li> </ul>
External Risks			
Security Vulnerabilities	High	Medium	<ul style="list-style-type: none"> <li>- Regularly conduct security audits and penetration testing.</li> <li>- Keep software and systems updated with the latest security patches.</li> <li>- Implement robust authentication and authorization mechanisms.</li> </ul>
Changes in Regulations/Compliance Standards			
	High	Medium	<ul style="list-style-type: none"> <li>- Stay informed about relevant regulations and compliance standards.</li> <li>- Design the system with flexibility to adapt to changing regulatory requirements.</li> <li>- Collaborate with legal experts to ensure ongoing compliance.</li> </ul>

# 27 Risk monitoring



Task	Description
<b>Ongoing Risk Monitoring System</b>	- Implement a centralized risk register. - Utilize project management tools for real-time monitoring.
<b>Triggers for Risk Escalation</b>	- Define triggers for escalating risks (e.g., deviations from KPIs, missed deadlines).
<b>Regular Check-ins</b>	- Schedule periodic check-ins to reassess and update the risk management plan.

# 28

## Profile page



# 29

## Product Backlogs



A	B	C	D		E	F	G
1	Sprint Number	User Story	User Story Title	Brief Description	Additional Info	Priority	Status
2	1	S1	User Profile	As a user, I want a profile page to manage my information, including profile picture and contact details, so that I can keep my information	1-high	Done	Done
3	1	S2	Course Catalog	As a student, I want a comprehensive course catalog with categorization and detailed course information so that I can explore and choose	1-high	Done	Done
4	1	S3	Course Recommendation	As a student, I want a user-friendly interface for course selection and registration to easily enroll in the courses I've chosen.	2-medium	In Progress	In Progress
5	1	S4	(Goat GPT)	As a student, I want an AI to answer my questions instantly	3-low	Done	Done
6	2	S5	User Registration	As a new user, I want to register with my personal information so that I can access the app's features and courses.	1-high	Done	Done
7	2	S6	Search Engine	As a user, I want to search for specific Course or a subject in the course	2-medium	Done	Done
8	2	S7	Achivement System	As a Student, I want a system that encourage me to use the different features in the CMS	2-medium	Done	Done
9	3	S8	Progress Tracking	As a student, I want educational videos integrated into the app, organized by courses and with excellent playback quality, so that I can	3-low	Done	Done
10	3	S9	Video Content Integration	As a student, I want to track my progress in each course, including completed modules, quizzes, assignments, and grades, to monitor my	2-medium	In Progress	In Progress
11	3	S10	Discussion Forum	As a student, I want a discussion forum to interact with peers and ask questions related to courses for collaborative learning. (Communities)	3-low	In Progress	In Progress
12	3	S11	Notifications and Reminders	As a student, I want to receive notifications and reminders about deadlines, exams, and course updates to stay organized and informed.	3-low	In Progress	In Progress
13	3	S12	FeedBacks and rating	As a student, I want to provide feedback and ratings for courses and instructors to help improve the overall quality of education.	2-medium	In Progress	In Progress
14	3	S13	User Support	As a user, I want access to user support through a contact form or live chat for assistance with any app-related issues.	2-medium	In Progress	In Progress
15	3	S14	Multilingual Support	As a user, I want the app to support multiple languages so that I can use it in my preferred language for a better user experience.	3-low	In Progress	In Progress

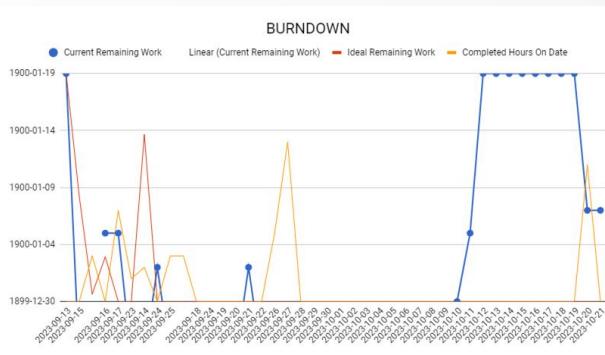


# 29

## Sprint 4 sheet



	S0	Brief description	To Do	
2	S1	Develop a comprehensive profile page that enables users to manage their information effectively	Done	2023-09-17
3	S1	Develop a comprehensive profile page that enables users to manage their information effectively	Done	2023-09-17
4	S1	create a robust catalog system	In Progress	2023-09-13
5	S2	create an intuitive interface for course selection and registration to simplify the enrollment process.	Done	2023-09-14
6	S3		Done	2023-09-23
7	S4	Connect chatgpt with The app	Done	2023-09-23
8	S5	Design a registration page that allows new users to create an account and access the app's features and courses	Done	2023-09-27
9	S5	Design a registration page that allows new users to create an account and access the app's features and courses	Done	2023-09-27
10	S6	develop Search engine	Done	2023-09-26
11	S7	build an achivment system	Done	2023-09-26
12	S7	build an achivment system	Done	2023-09-27
13	S7	build an achivment system	Done	2023-09-26
14	S7	build an achivment system	Done	2023-09-26
15	S8	integrate educational videos into the app, organized by courses, to provide students with easy access to supplementary materials	Done	2023-10-20
16	S8	integrate educational videos into the app, organized by courses, to provide students with easy access to supplementary materials	Done	2023-10-20
17	S9	develop a course progress tracking system to help students monitor their academic performance.	Done	
18	S10	To facilitate collaborative learning, create a discussion forum where students can interact with their peers and ask questions related to courses.	In Progress	
19	S11	develop a notification system to keep students informed about deadlines, exams, and course updates.	In Progress	
20	S12	implement a system that allows students to provide feedback and ratings for courses and instructors.	In Progress	



Sprint Length	14
Sprint Length	14
Hours Per Day	5.36

Start Date: 2023-09-13

SalehAlbaylan	20	17	85%
salman	11	2	18%
salman	11	2	18%
saud	24	24	100%

salehalbatti 14 6 43%

abdulhakim	6	4	67%
omar	0	0	0%
omar	0	0	0%

# Meetings Timeline





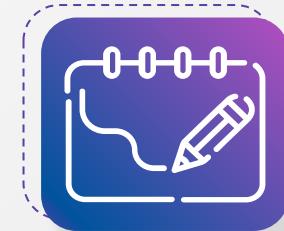
## 00 Analysis & Design

- |   |  |
|---|--|
| <p><b>30</b><br/><b>Requirements Analysis</b></p> <p><b>32</b><br/><b>Use Case Definition</b></p> <p><b>34</b><br/><b>Class Diagram</b></p> | <p><b>31</b><br/><b>Planning For Requirements<br/>After revision</b></p> <p><b>33</b><br/><b>Identify New Actors<br/>and Scenarios</b></p> <p><b>35</b><br/><b>Product backlogs<br/>AND sprint 5 sheet</b></p> |
|---|--|

# 30

## Requirement Analysis

### Additional Requirement



- **User Authentication:** Implement secure user authentication mechanisms, such as two-factor authentication.
- **Social Integration:** Allow users to link their social media accounts for sharing achievements and connecting with peers.

# 31

## Planning For Requirements After revision



### User Profile

- Allow users to edit and update their personal information, including name, email address, and other relevant details.



### Scalability Measures Implementation

- Ensure the system can handle increased content and user traffic.



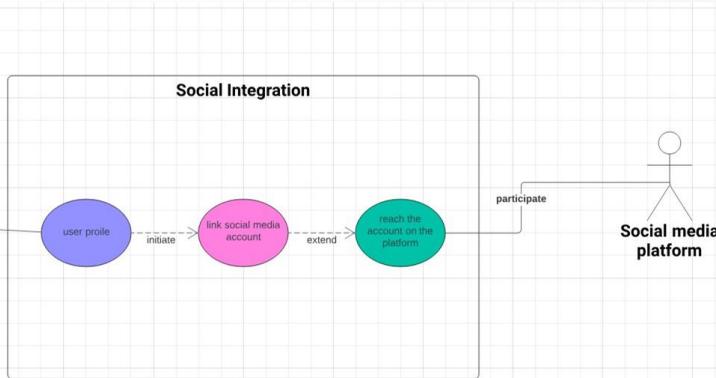
### Usability

- Optimizing the search process by making it more simplest and user-friendly.
- Enhances the user-friendliness of the profile page.

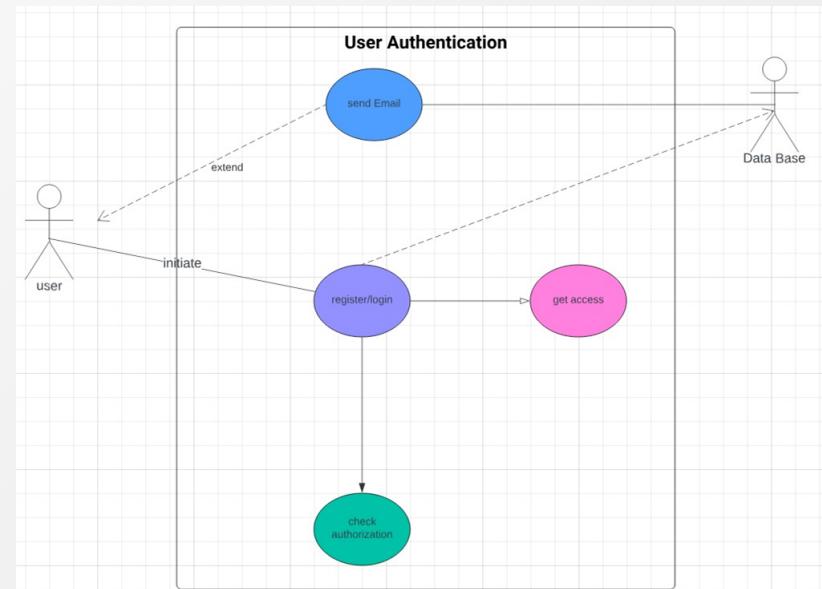
# 32

# Use Case Definition

## Requirement 1 UC: Social integration

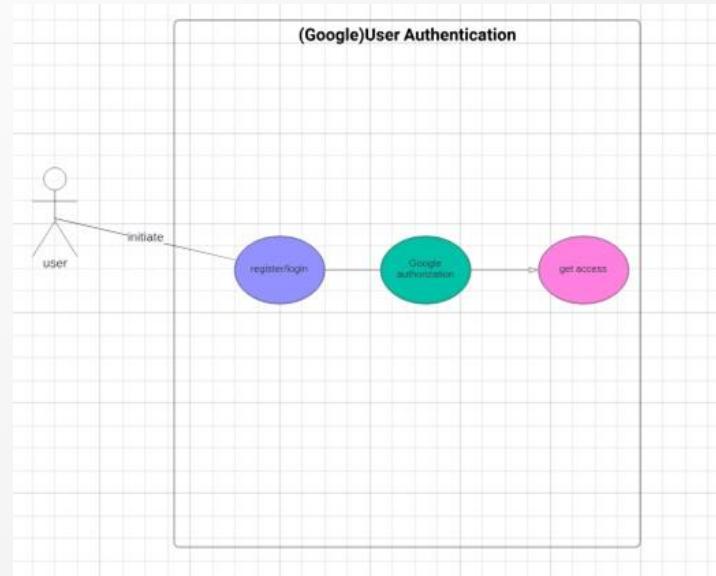


## Requirement 2 UC : User Authentication



# 33

## Identify New Actors and Scenarios

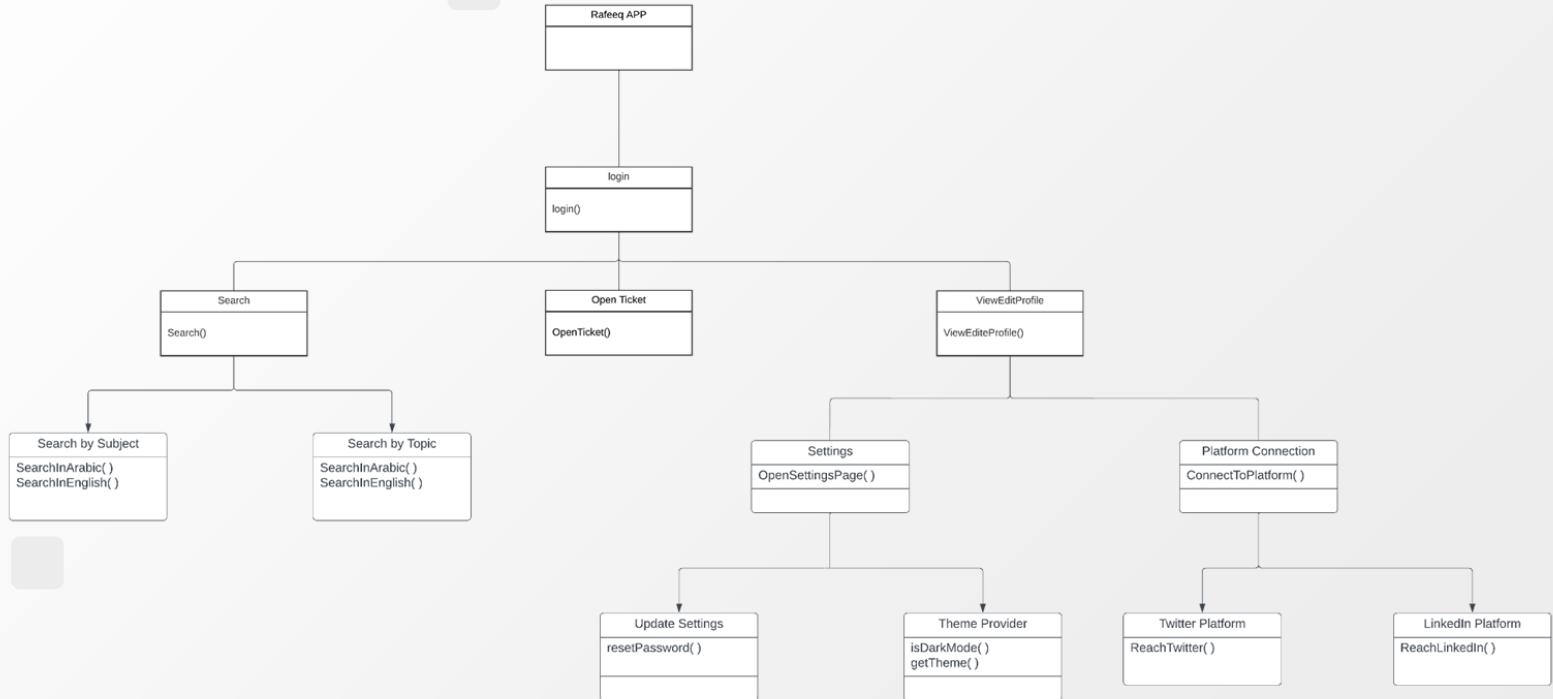


# 34 Class Diagram



## Facade Pattern

We choose this pattern because Our app based on Youtube API  
And in general based on APIs



# 35 Product Backlogs



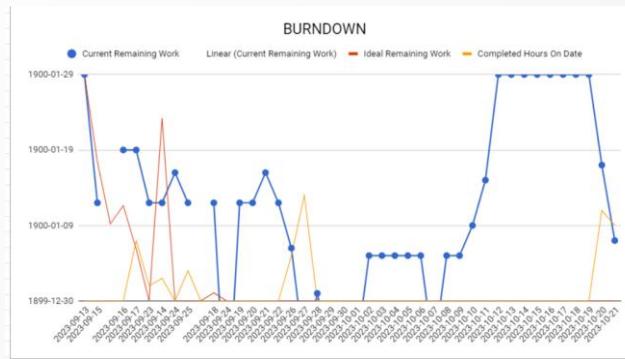
	Sprint Number	User Story	User Story Title	Brief Description	Additional Info	Priority	Status
1	5	S1	User Profile	As a user, I want a profile page to manage my information, including profile picture and contact details, so that I can keep my information		1-high	Done
2	1	S2	Course Catalog	As a student, I want a comprehensive course catalog with categorization and detailed course information so that I can explore and choose		1-high	Done
3	1	S3	Course Recommendation	As a student, I want a user-friendly interface for course selection and registration to easily enroll in the courses I've chosen.		2-medium	Done
4	1	S4	(Goat GPT)	As a student, I want an AI to answer my questions instantly		3-low	Done
5	2	S5	User Registration	As a new user, I want to register with my personal information so that I can access the app's features and courses.		1-high	Done
6	2	S6	Search Engine	As a user, I want to search for specific Course or a subject in the course		2-medium	Done
7	2	S7	Achievement System	As a Student, I want a system that encourage me to use the different features in the CMS		2-medium	Done
8	3	S8	Progress Tracking	As a student, I want educational videos integrated into the app, organized by courses and with excellent playback quality, so that I can		3-low	In Progress
9	6	S9	Video Content Integration	As a student, I want to track my progress in each course, including completed modules, quizzes, assignments, and grades, to monitor my		2-medium	In Progress
10	5	S10	Settings	As a student, I want to be able to change my app settings and profile settings and profile preferences		2-medium	Done
11	6	S11	Notifications and Reminders	As a student, I want to receive notifications and reminders about deadlines, exams, and course updates to stay organized and informed.		3-low	In Progress
12	6	S12	Feedbacks and rating	As a student, I want to provide feedback and ratings for courses and instructors to help improve the overall quality of education.		2-medium	In Progress
13	6	S13	User Support	As a user, I want access to user support through a contact form or live chat for assistance with any app-related issues.		2-medium	In Progress
14	6	S14	Multilingual Support	As a user, I want the app to support multiple languages so that I can use it in my preferred language for a better user experience.		3-low	In Progress
15	6	S15	User Authentication	As a user, I want the app to be more secure that there is two step to authenticate		3-low	Done
16	6	S16	Social Integration	As a user, I want to link my Accounts on other social media platforms		3-low	In Progress
17	6	S17	Advanced Analytics for Instructors	As a user, I want to see my profile analytics		3-low	To Do



# 35 Sprint 5 sheet



A	B	C	D	E	F	G
User Story Task		Expected	Actual	Person	Status	Date Completed
S0	Brief description	4	7	abdulhakim	To Do	
S1	Develop a comprehensive profile page that enables users to manage their information effectively	4	7	saud	Done	2023-09-17
S1	Develop a comprehensive profile page that enables users to manage their information effectively	3	7	salman	In Progress	2023-09-15
S2	create a robust catalog system	3	5	SalehAlbaylan	Done	2023-09-12
S3	create an intuitive interface for course selection and registration to simplify the enrollment process.	2	3	saud	Done	2023-09-25
S4	Connect chatgpt with The app	6	2	saud	Done	2023-09-27
S5	Design a registration page that allows new users to create an account and access the app's features and courses	6	2	SalehAlbaylan	Done	2023-09-27
S5	Design a registration page that allows new users to create an account and access the app's features and courses	4	3	saud	Done	2023-09-26
S6	develop Search engine	2	2	salman	Done	2023-09-26
S7	build an achivment system	2	2	SalehAlbaylan	Done	2023-09-27
S7	build an achivment system	2	2	saud	Done	2023-09-26
S7	build an achivment system	2	2	salehalbatti	Done	2023-09-26
S8	integrate educational videos into the app, organized by courses, to provide students with easy access to supplementary materials	6	6	saud	Done	2023-10-2
S8	integrate educational videos into the app, organized by courses, to provide students with easy access to supplementary materials	6	6	SalehAlbaylan	Done	2023-10-2
S9	develop a course progress tracking system to help students monitor their academic performance.	4	2	salehalbatti	Done	2023-10-2
S10	Settings section that allows user to change his preferences and profile information..etc	6	8	abdulhakim	Done	2023-10-2
S11	develop a notification system to keep students informed about deadlines, exams, and course updates.	5	3	salehalbatti	In Progress	
S12	implement a system that allows students to provide feedback and ratings for courses and instructors.	3	5	abdulhakim	In Progress	
S13	User Support	3	3	abdulhakim	In Progress	
S14	provide an another language for the app (Multilingual Support)	2	1	salman	In Progress	2023-10-2
S15	securing the app with two step to authenticate	2	1	salehalbatti	In Progress	
S16	Link the app with other social media Platforms	1	1	abdulhakim	In Progress	
S17	Provide detailed analytics dashboards specifically tailored for instructors	3	3	SalehAlbaylan	To Do	
26					To Do	

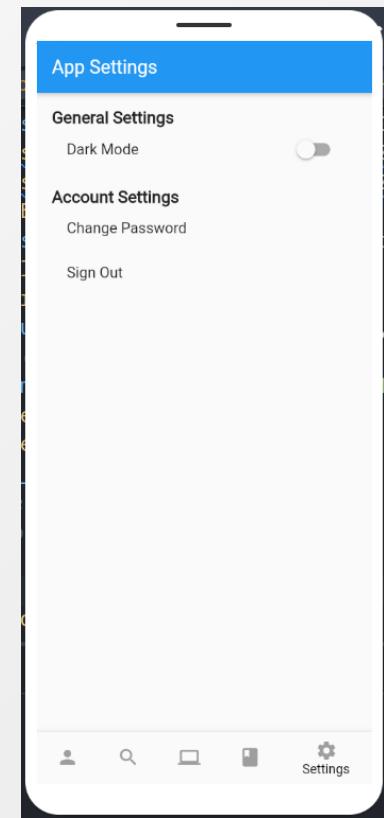


Sprint Number	1	Person	Hours Assigned	Hours Completed	Percentage Complete
Sprint Length	14	SalehAlbaylan	20	17	85%
Sprint Length	14	salman	7	2	29%
Hours Per Day	5.79	salman	7	2	29%
		saud	24	24	100%
Start Date:	2023-09-13	salehalbatti	13	6	46%
		abdulhakim	17	10	59%
		omar	0	0	0%
		omar	0	0	0%
Total:	30		16	53%	

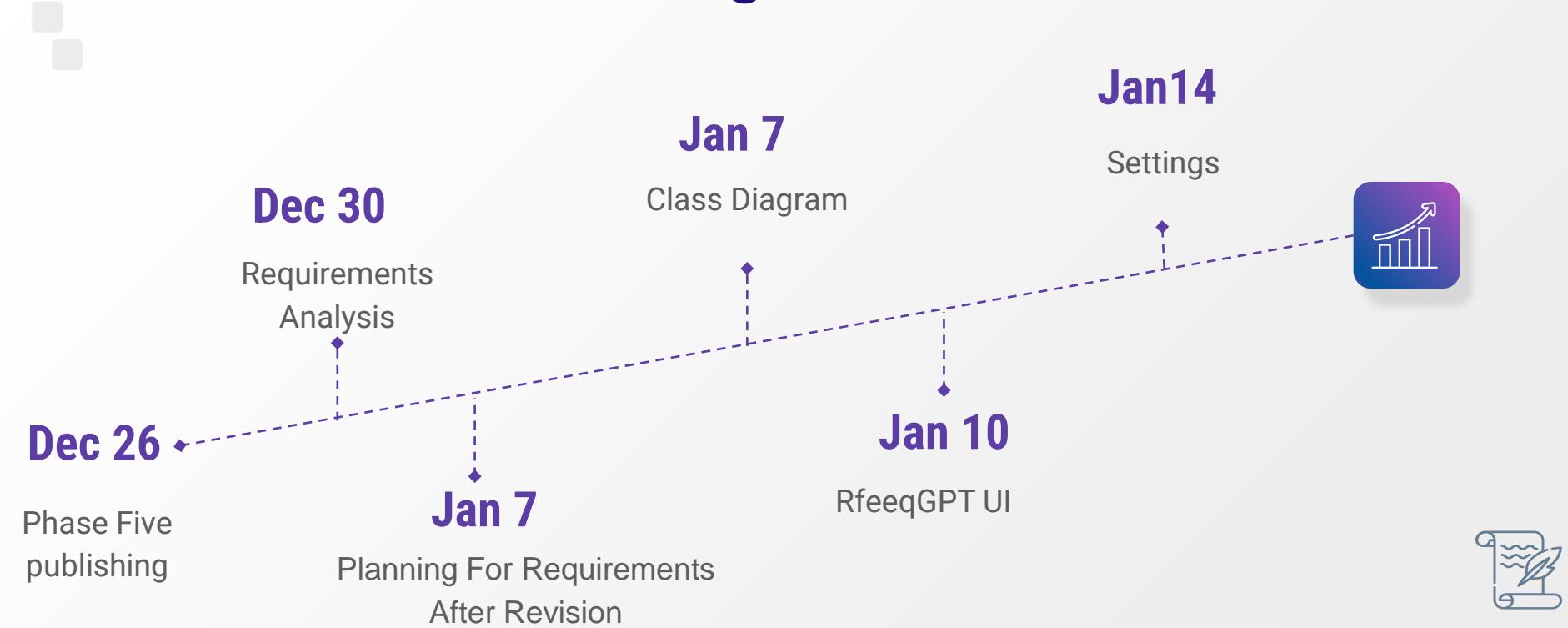
# RafeeqGPT UI



## Settings



# Meetings Timeline





## Software Quality Evaluation and Sprint Development

- |    |  |    |                        |
|----|--|----|------------------------|
| 36 | Code Quality Analysis                  | 37 | Non-Functional Testing |
| 38 | Product backlogs<br>AND sprint 5 sheet | 39 | Arabic Version         |
| 40 | Edit User Profile                      | 41 | Dark Mode              |

# 36

## Code Quality Analysis

710 Lines of Code [?](#)

Last analysis 15 minutes ago [A 1f77615e](#) Merge branch 'develop'

Next scan will generate a Quality Gate.

**Quality Gate** [?](#)

Category	Count	Grade
Reliability	1 Bugs <a href="#">?</a>	C
Maintainability	33 Code Smells <a href="#">?</a>	A
Security	1 Vulnerabilities <a href="#">?</a>	E
Coverage	A few extra steps are needed for SonarCloud to analyze your code coverage <a href="#">Setup coverage analysis</a> <a href="#">?</a>	
Duplications	0.0% Duplications <a href="#">?</a>	



### Suggestions improvement

- The security Vulnerability relatable with the Youtube API  
We can make the API Class private instead of public

# 37

## Non-Functional Testing

### Tool: Sonar Cloud



#### - First requirement is **Security**

The analysis shows that there is a bug on input that **could** OverFlow the buffer

0.0% Security Hotspots Reviewed

To review | Fixed | Safe

3 Security Hotspots to review

Review priority: High

Buffer Overflow

Make sure use of "wcslen" is safe here.

Review priority: Low

Encryption of Sensitive Data

"usesClearTextTraffic" is implicitly enabled for older Android versions. Make sure allowing clear-text traffic is safe here.

Others

Make sure backup of application data is safe here.

3 of 3 shown

- Second requirement is **Reliability**
- The analysis shows that there is a bug on the lang at HTML File which is a built-in Flutter File not Rfeeq File

Add "lang" and/or "xml:lang" attributes to this <html> element ↗

<html> element should have a language attribute Web:SS24

Software qualities impacted: Reliability

Open Not assigned Bug Major

Where is the issue? Why is this an issue? Activity More info

web/index.html

1 of 1 shown

web/index.html

1 saudal... <!DOCTYPE html>

2 Add "lang" and/or "xml:lang" attributes to this <html> element

3 <head>

4 <!--

5 If you are serving your web app in a path other than the root, change the

6 href value below to reflect the base path you are serving from.

7 href provided below has to start and end with a slash '/' in order for

8 it to work correctly.

9 For more details:

10 \* https://developer.mozilla.org/en-US/docs/Web/HTML/Element/base

11 This is a placeholder for base href that will be replaced by the value of

12 the '--base-href' argument provided to 'flutter build'.

13 <!-->

14 <base href="\$FLUTTER\_BASE\_HREF">

15 <meta charset="UTF-8">

16 <meta content="IE=edge" http-equiv="X-UA-Compatible">

17 <meta name="description" content="A new Flutter project.">

18 <!-- iOS meta tags & icons -->

19 <meta name="apple-mobile-web-app-capable" content="yes">

20 <meta name="apple-mobile-web-app-status-bar-style" content="black">

21 <meta name="apple-mobile-web-app-title" content="rafeeq\_app">

22 <link rel="apple-touch-icon" href="icons/icon-192.png">

23 <!-- Favicon -->

24 <link rel="icon" type="image/png" href="favicon.png"/>

25 <title>rafeeq\_app</title>

26 <link rel="manifest" href="manifest.json">

27 <script>

28 // The value below is injected by flutter build, do not touch.

29

30

31

32

33

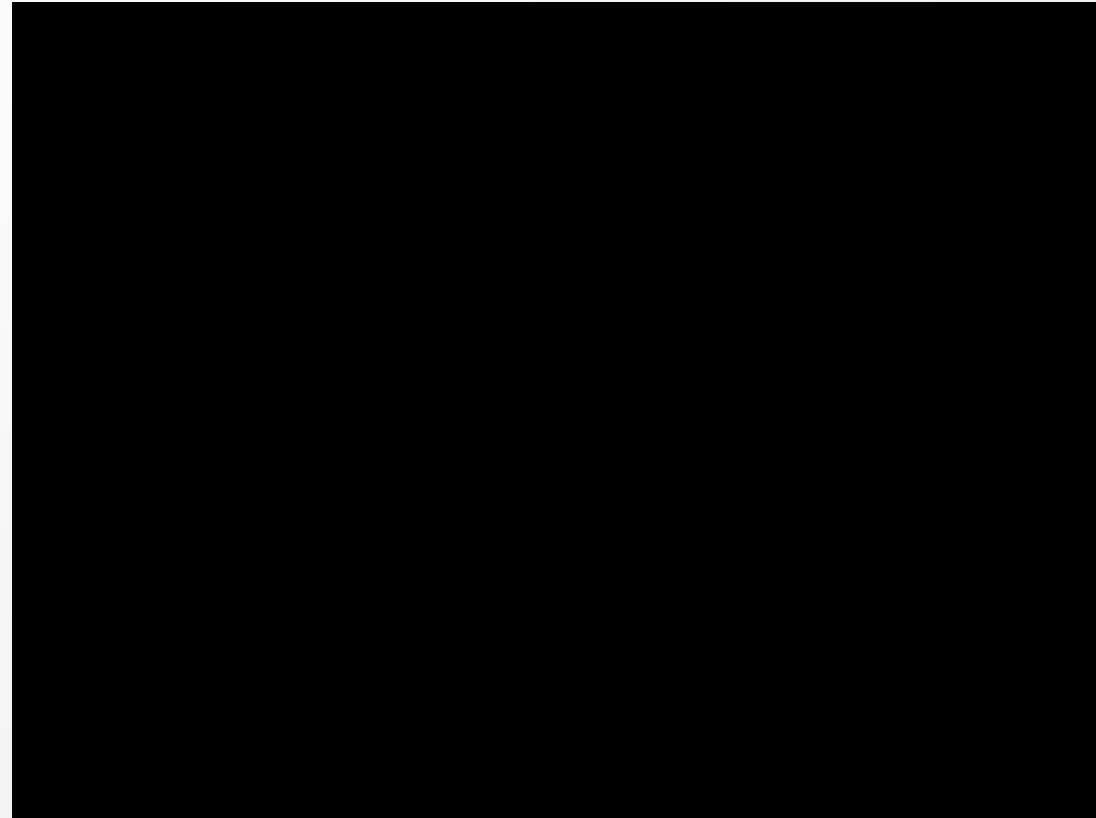
34

35

36

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## Video presentation



# 38 Product Backlogs



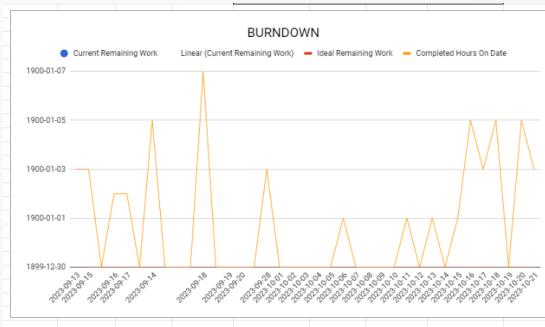
Sprint Number	User Story	User Story Title	Brief Description	Additional Info	Priority	Status
5	S1	User Profile	As a user, I want a profile page to manage my information, including profile picture and contact details, so that I can keep my information		1-high	Done
1	S2	Course Catalog	As a student, I want a comprehensive course catalog with categorization and detailed course information so that I can explore and choose		1-high	Done
1	S3	Course Recommendation	As a student, I want a user-friendly interface for course selection and registration to easily enroll in the courses I've chosen.		2-medium	Done
1	S4	(Goat GPT)	As a student, I want an AI to answer my questions instantly		3-low	Done
2	S5	User Registration	As a new user, I want to register with my personal information so that I can access the app's features and courses.		1-high	Done
2	S6	Search Engine	As a user, I want to search for specific Course or a subject in the course		2-medium	Done
2	S7	Achivement System	As a Student, I want a system that encourage me to use the different features in the CMS		2-medium	Done
3	S8	Progress Tracking	As a student, I want educational videos integrated into the app, organized by courses and with excellent playback quality, so that I can		3-low	Done
6	S9	Video Content Integration	As a student, I want to track my progress in each course, including completed modules, quizzes, assignments, and grades, to monitor my		2-medium	Done
5	S10	Settings	As a student, I want a to be able to change my app settings and profile settings and profile preferences		2-medium	Done
6	S11	Multilingual Support	As a user, I want the app to support multiple languages so that I can use it in my preferred language for a better user experience.		3-low	Done
6	S12	User Authentication	As a user, I want the app be more secure that there is two step to authenticate		3-low	Done





# 38 Sprint 6 sheet

A	B	C	D	E	F	G
User Story	Task	Expected	Actual	Person	Status	Date Completed
S0	Brief description				To Do	
S1	Develop a comprehensive profile page that enables users to manage their information effectively	4	7	abdulhakim	Done	2023-09-13
S1	Develop a comprehensive profile page that enables users to manage their information effectively	4	7	saud	Done	2023-09-15
S2	create a robust catalog system	3	salman		Done	2023-09-16
S3	create an intuitive interface for course selection and registration to simplify the enrollment process.	3	5	SalehAlbaylan	Done	2023-09-17
S4	Connect chatgpt with The app	2	3	saud	Done	2023-09-18
S5	Design a registration page that allows new users to create an account and access the app's features and courses	6	2	saud	Done	2023-09-14
S5	Design a registration page that allows new users to create an account and access the app's features and courses	6	2	SalehAlbaylan	Done	2023-09-18
S6	develop Search engine	4	3	saud	Done	2023-09-28
S7	build an achivment system	2	2	salman	Done	2023-10-06
S7	build an achivment system	2	2	SalehAlbaylan	Done	2023-10-11
S7	build an achivment system	2	2	saud	Done	2023-10-13
S7	build an achivment system	2	2	salehalbatti	Done	2023-10-15
S8	integrate educational videos into the app, organized by courses, to provide students with easy access to supplementary materials	6	6	saud	Done	2023-10-20
S8	integrate educational videos into the app, organized by courses, to provide students with easy access to supplementary materials	6	6	SalehAlbaylan	Done	2023-10-16
S9	develop a course progress tracking system to help students monitor their academic performance.	4	2	salehalbatti	Done	2023-10-17
S10	Settings section that allows user to change his preferences and profile information..etc	6	10	abdulhakim	Done	2023-10-18
S11	provide an another language for the app (Multilingual Support)	2	1	salman	Done	2023-10-21
S12	securing the app with two step to authenticate	2	3	saud	Done	2023-10-21



Sprint Number	1
Sprint Length	14
Sprint Length	14
Hours Per Day	4.71

Start Date: 2023-09-13

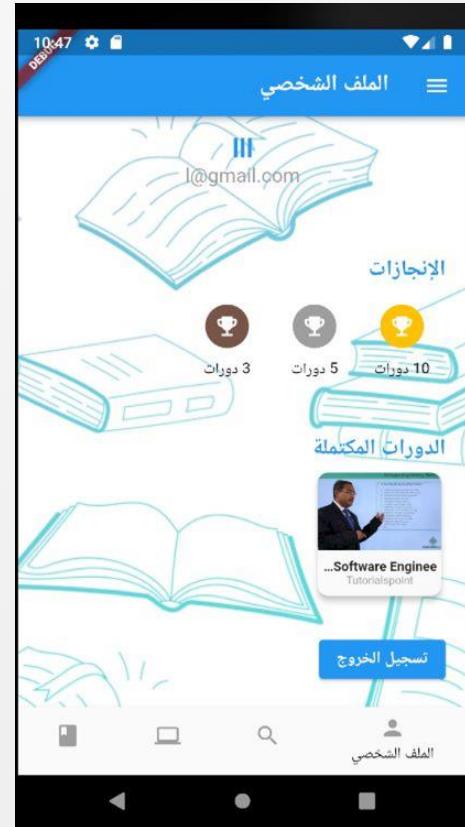
Person	Hours Assigned	Hours Complete	Percentage Complete
SalehAlbaylan	17	17	100%
salman	7	7	100%
salman	7	7	100%
saud	26	26	100%

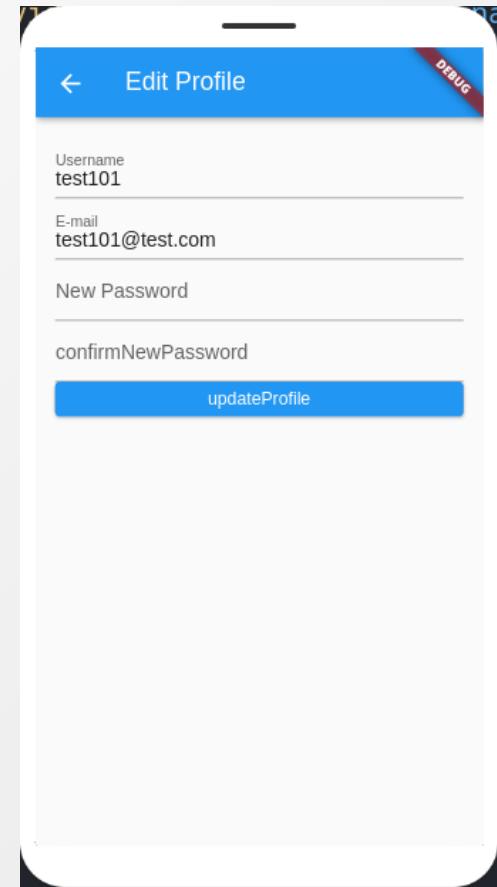
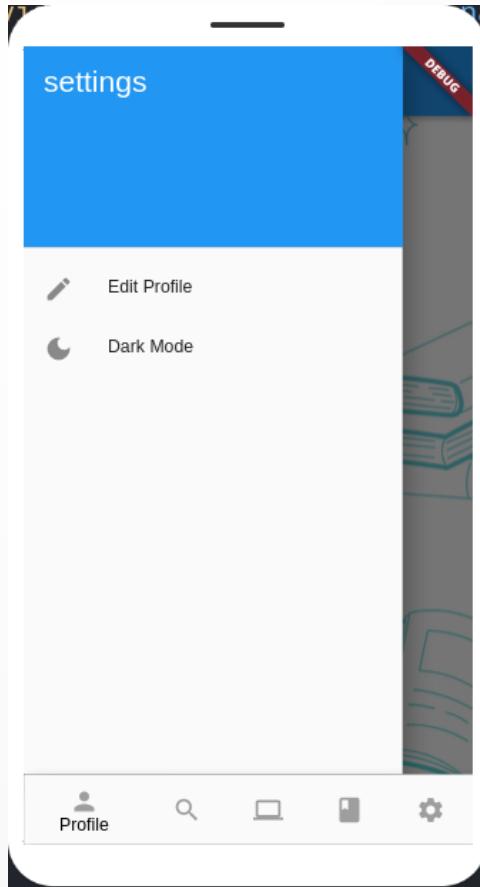
salehalbatti 6 6 100%

abdulhakim	10	10	100%
	0	0	0%
	0	0	0%

39

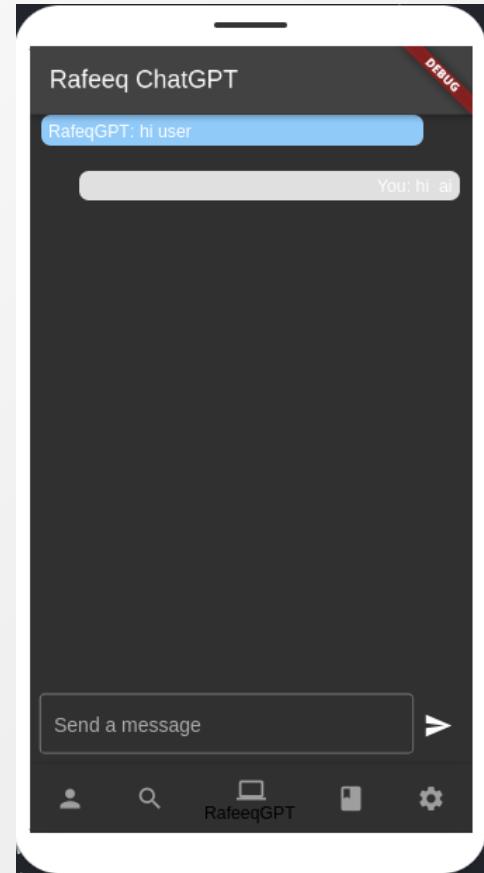
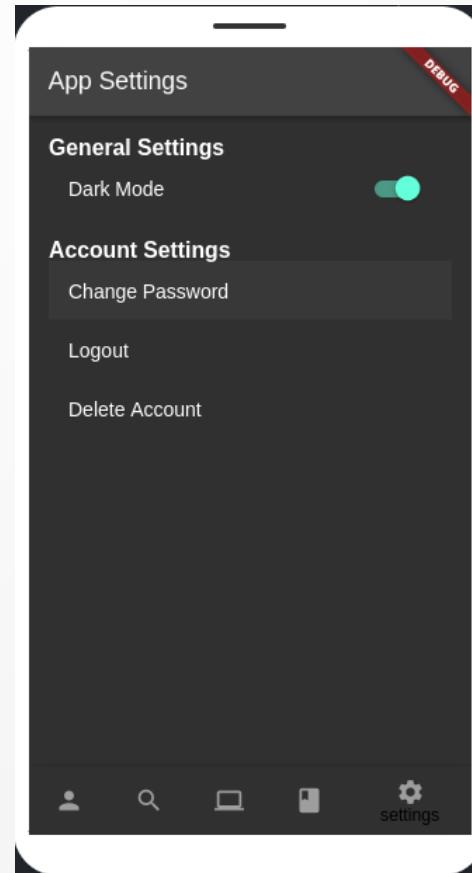
## Arabic Version



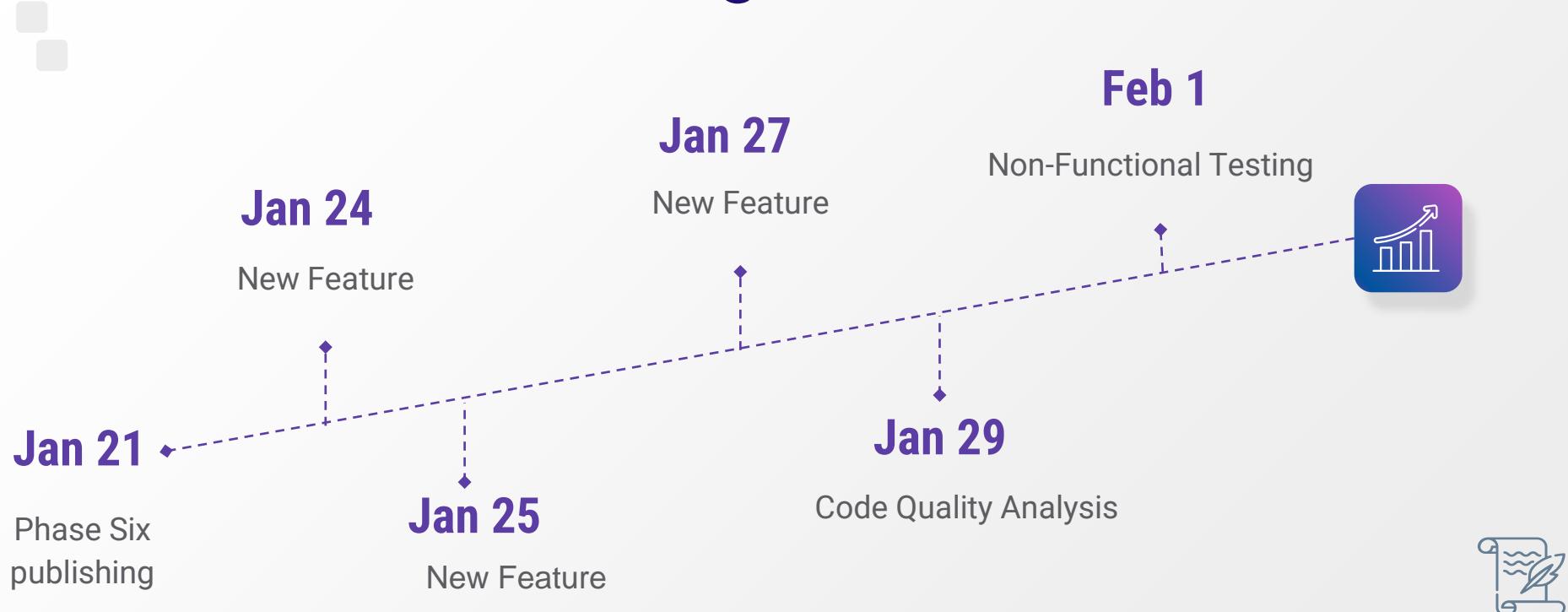


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## Dark Mode

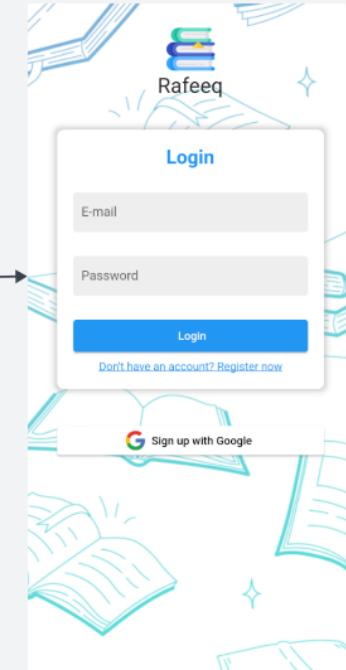


# Meetings Timeline



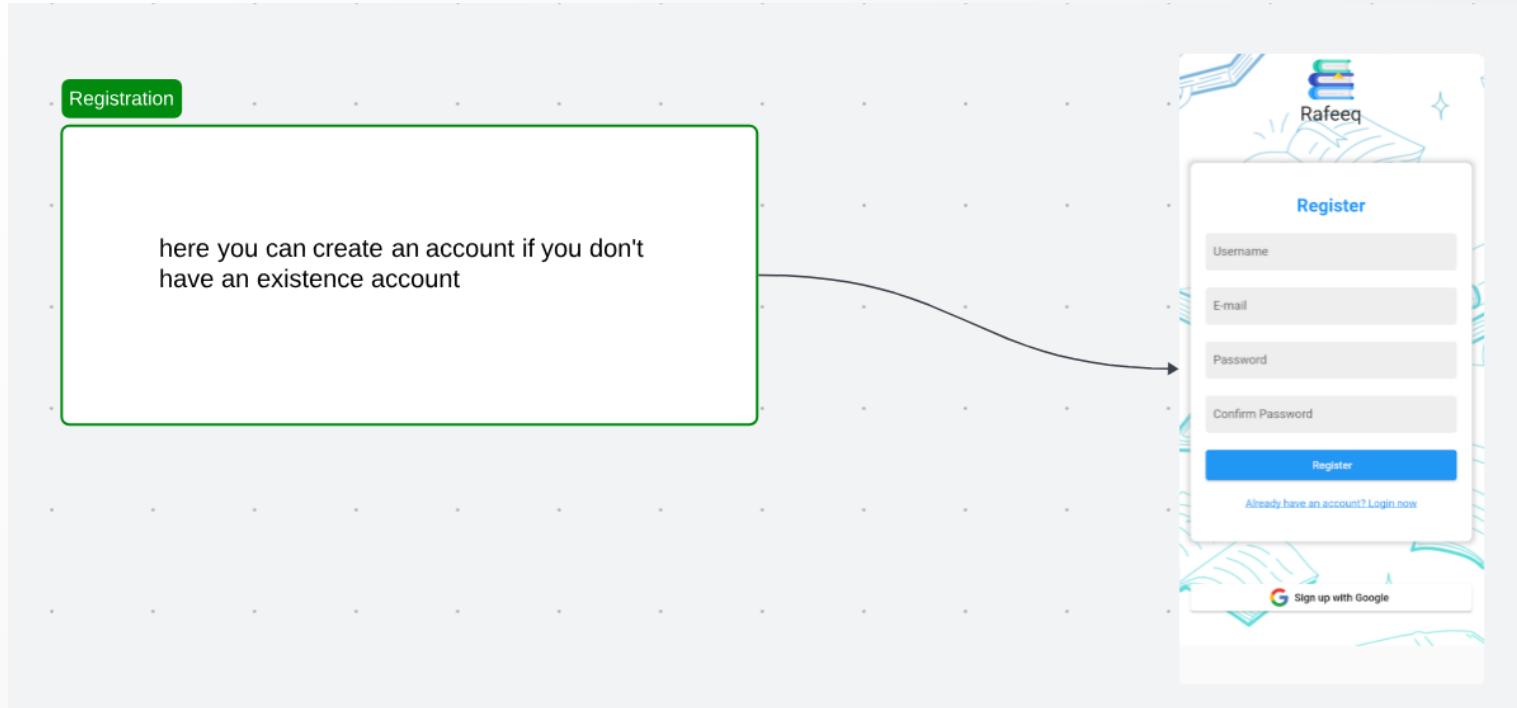
# User Guide

here is the login page , you can either login by your account , or create a new account , or simply sign in\up by Google account .



The image shows a login screen with a light blue background featuring a repeating pattern of open books and stars. At the top left is a logo consisting of three stacked books with the word "Rafeeq" written in a stylized font next to them. Below the logo is a white rectangular form with rounded corners. The word "Login" is centered at the top in a blue font. Inside the form, there are two input fields: one for "E-mail" and one for "Password", both with placeholder text. Below these is a large blue "Login" button. Underneath the button, a smaller link reads "Don't have an account? Register now". At the bottom left of the form is a "Sign up with Google" button, which includes the Google logo.

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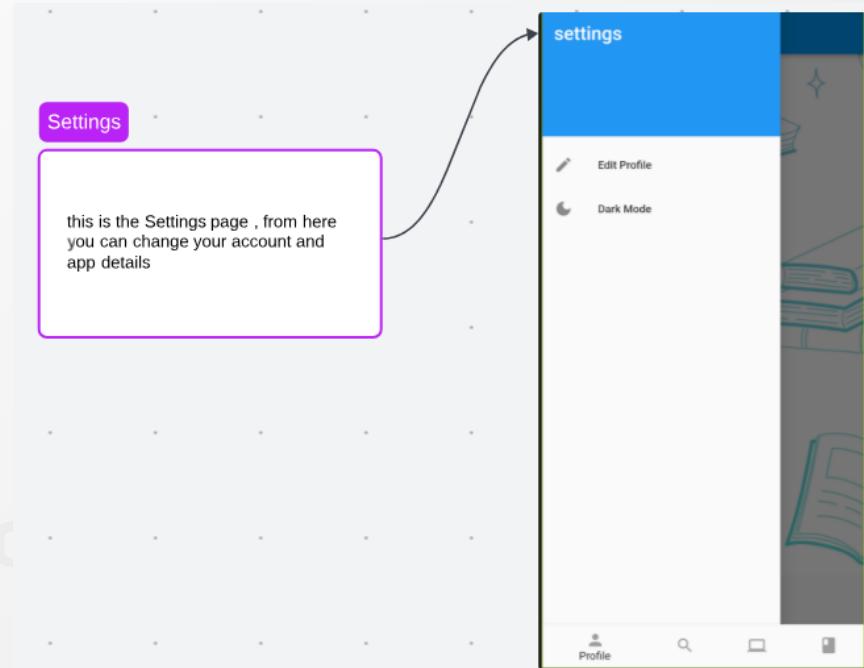
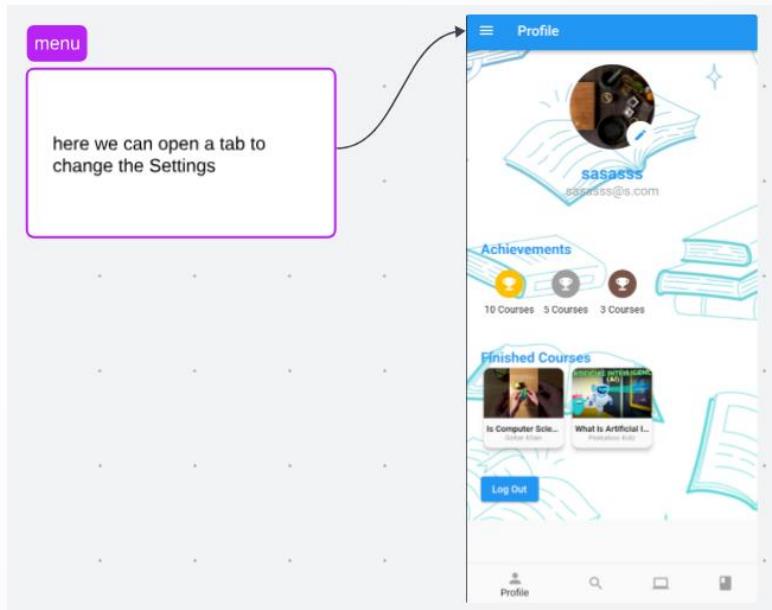
# User Guide

profile page

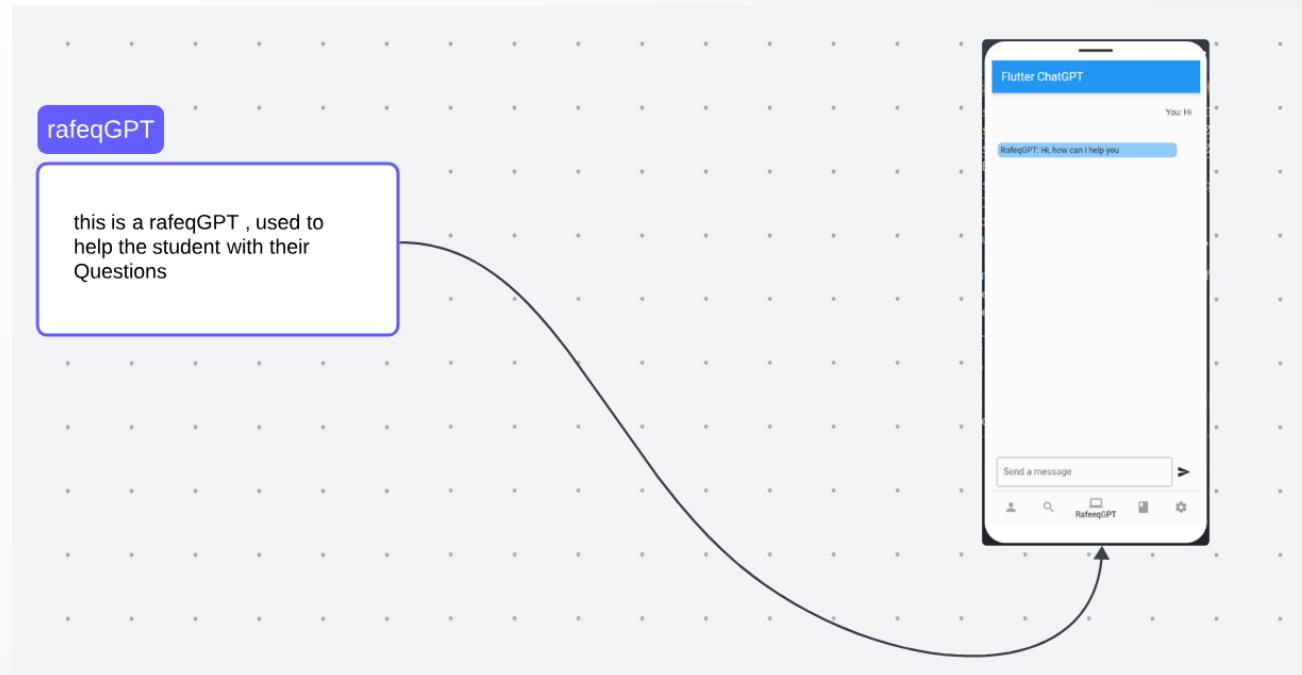
this is the profile page , you can see a few things , Such as Achievements , a list of finished courses and you can also log out from your account



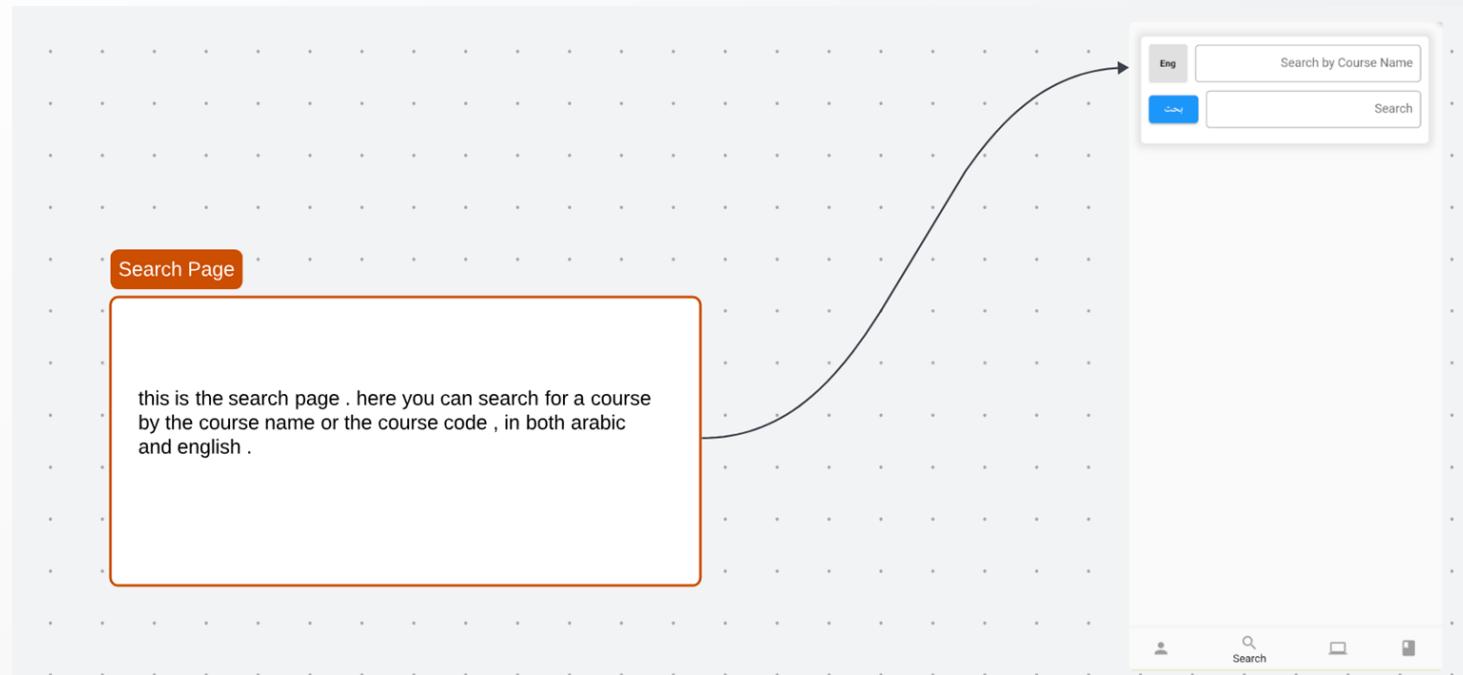
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**Thanks For Your Patient!**