

Software Engineering

Project



TEAM 27

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MILESTONE 1



Identify User Requirements

Identify User Requirements



1. Student Side

1

Home:

Access point for login and signup.

2

Login/Signup:

Allows users to enter the platform.

3

Dashboard:

Main area where users access various features.

A

Landing:

Announcements, upcoming deadlines, scheduled lectures.

B

Profile/Support (GenAI):

User profile, support options.

C

Subject:

a) Course completion percentage, graded assignments, practice assignments.

b) Course materials and content (GenAI) and scores.

2. Admin Side

1

Home:

Access point for login and signup.

2

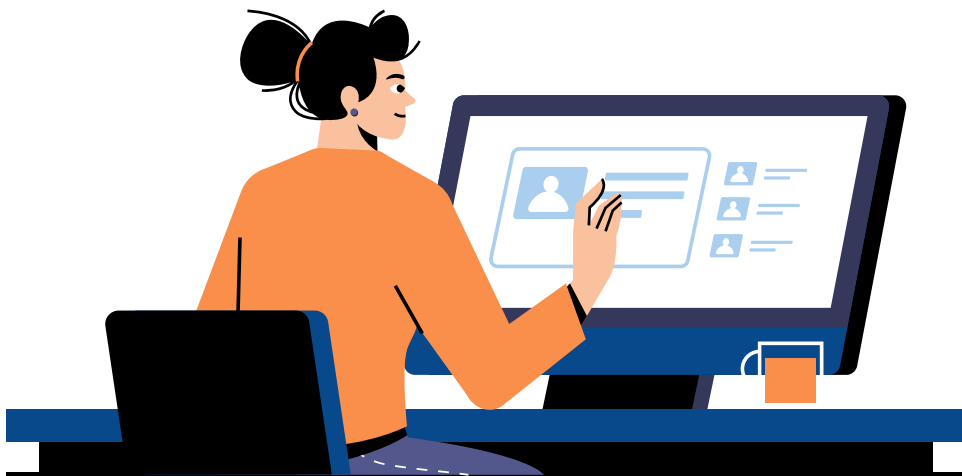
Login/Signup:

Allows admins to enter the platform.

3

Dashboard:

Main area where admins upload content.



Envision Different Experiences/Scenarios on SEEK Portal

1. Without GenAI

Scenario 1: Checking Course Progress

A

A learner logs in and navigates to their dashboard.

B

They check the completion percentage and view graded assignments.

Scenario 2: Accessing Support

A

A learner needs help with an assignment.

B

They navigate to the support section and submit a query.

Scenario 3: Solving a Programming Assignment Problem

A

A learner logs into the SEEK portal.

B

Navigates to the course page and selects the programming question.

C

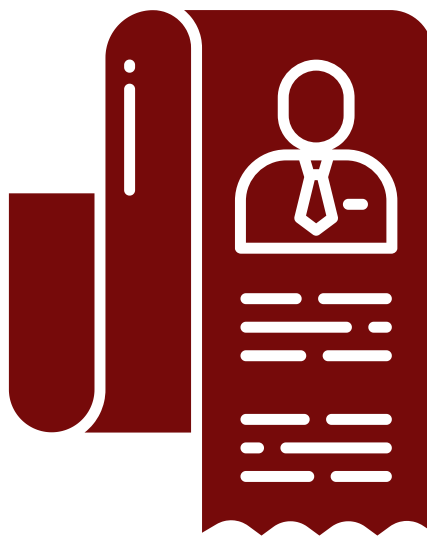
Reads the problem statement and writes code in the provided editor.

D

Submits the code and receives immediate feedback on test cases passed/failed.

E

Learner tries to understand why certain test cases failed and attempts to debug and resubmit.



Envision Different Experiences/Scenarios on SEEK Portal

2. With GenAI

Scenario 1: Checking Course Progress

A

A learner logs in and is greeted by a GenAI assistant.

B

The assistant provides a summary of course progress and suggests areas to focus on.

Scenario 2: Accessing Support

A

A learner needs help with an assignment.

B

They interact with a GenAI chatbot that provides instant assistance or directs them to relevant resources.

Scenario 3: Solving a Programming Assignment Problem

A

A learner logs into the SEEK portal.

B

Navigates to the course page and selects the programming question.

C

Reads the problem statement and writes code in the provided editor.

D

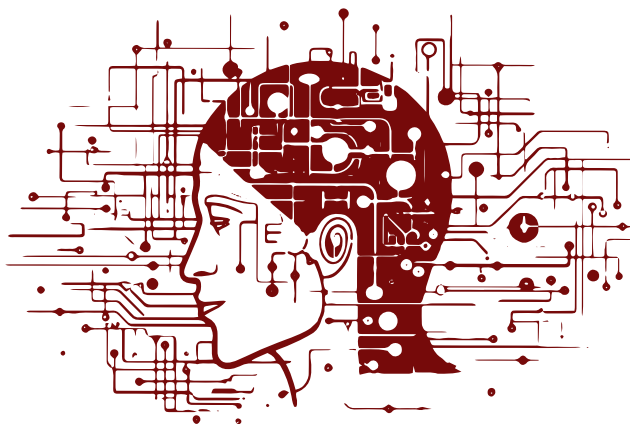
Submits the code and receives immediate feedback on test cases passed/failed.

E

GenAI suggests possible reasons for failed test cases and offers debugging tips.

F

Learner attempts to debug and resubmit with the help of GenAI's suggestions.



Learner Journey Maps

1. Without GenAI

Scenario 1: Checking Course Progress

A

Login

B

Navigate to Dashboard

C

View Completion Percentage

D

Check Graded Assignments

Scenario 2: Accessing Support

A

Login

B

Navigate to Profile/Support

C

Submit Query

D

Wait for Response

Scenario 3: Solving a Programming Assignment Problem

A

Login

B

Navigate to Course Page

C

Select Programming Question

D

Read Problem Statement

E

Write Code in Editor

F

Submit Code

G

Receive Feedback on Test Cases

H

Debug and Resubmit

2. With GenAI

Scenario 1: Checking Course Progress

A

Login

B

GenAI Assistant Greet and Summarizes Progress

C

View Detailed Suggestions

Scenario 2: Accessing Support

A

Login

B

Interact with GenAI Chatbot

C

Receive Instant Assistance



Scenario 3: Solving a Programming Assignment Problem

A

Login

B

Navigate to Course Page

C

Select Programming Question

D

Read Problem Statement

E

Write Code in Editor

F

Submit Code

G

Receive Feedback on Test Cases

H

GenAI Suggests Debugging Tips

I

Debug and Resubmit with GenAI Assistance

User Stories

Without GenAI

Scenario 1: Checking Course Progress

As a learner, I want to check my course completion percentage and graded assignments, So that I can track my progress and understand my performance.



Scenario 2: Accessing Support

As a learner, I want to interact with a GenAI chatbot for instant support, So that I can get immediate help with my assignments and resolve issues quickly.



Scenario 3: Solving a Programming Assignment Problem

As a learner, I want a to solve programming assignment problems and get immediate feedback, So that I can understand my mistakes and improve my coding skills.



User Stories

With GenAI

Scenario 1: Checking Course Progress

As a learner, I want a GenAI assistant to provide a summary of my course progress,
So that I can easily identify areas to focus on and improve my learning efficiency.



Scenario 2: Accessing Support

As a learner, I want to interact with a GenAI chatbot for instant support,
So that I can get immediate help with my assignments and resolve issues quickly.



Scenario 3: Solving a Programming Assignment Problem

As a learner, I want a GenAI assistant to suggest debugging tips when my code fails test cases, So that I can understand my mistakes better and improve my programming skills more efficiently.

