

# The Student Room

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## I. INTRODUCTION & PROJECT OVERVIEW

Student Room is a comprehensive student platform that offers a range of features to support student learning and academic success. The platform includes discussion forum, mock tests, question bank, faculty researcher list, and simulations. The system supports admin and user access permissions as well.

The discussion forum allows students to engage in discussions with their peers and experts in their field of study. The forum is organized by subject, making it easy for students to find relevant conversations and participate in discussions that interest them. The mock test feature allows students to practice and prepare for exams. The question bank is a collection of practice questions and answers that students can use to test their knowledge and understanding of course material. The faculty researcher list is a directory of researchers and experts in various fields, making it easy for students to find and connect with experts in their area of study. The simulations feature allows students to engage in virtual simulations and scenarios to enhance their learning and understanding of complex concepts.

Overall, the Student Room platform provides a range of resources and features to support student learning and academic success. It is a valuable tool for students looking to engage with their peers and experts in their field, prepare for exams, and deepen their understanding of course material.

## II. MOTIVATION

The motivation behind the system is to provide students with a central hub for learning and academic support. The Student Room platform offers a range of resources and features that can help students succeed in their studies, such as discussion forums, mock tests, a question bank, and simulations. By combining these resources, the system provides students to more easily find the support they require to excel academically.

## III. MARKET ANALYSIS

### A. Benchmark Report Summary

In order to understand how the Student Room platform compares to similar systems, a benchmark analysis was performed on Quizlet, Chegg, Amar-e-pathshala, LMS, and Stackoverflow.

Features	Quizlet	Chegg	Amar-e-pathshala	LMS	Stack Overflow	Student Room
<b>Simulations</b>	X	X	X	X	X	Yes
<b>Mock Test</b>	Yes	X	Yes	X	X	Yes
<b>Question Bank</b>	Yes	Yes	X	X	X	Yes
<b>Discussion Forum</b>	Yes	Yes	X	X	Yes	Yes
<b>Question Request &amp; share</b>	Yes	X	X	X	X	Yes
<b>Researcher List</b>	X	X	X	X	X	Yes
<b>Learning Resources</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Tutorial Upload</b>	X	X	Yes	X	X	X
<b>Messaging</b>	X	X	X	Yes	Yes	X
<b>Job &amp; Internship Circular</b>	X	Yes	X	X	X	X

Quizlet is a popular study tool that allows users to create and share flashcards and practice quizzes. Chegg is a platform that offers online tutoring and homework help, as well as textbook rentals and digital copies of textbooks. Amar-e-pathshala is an e-learning platform that offers online courses and resources for students in India. LMS (Learning Management System) is a software application or web-based technology used to plan, implement, and assess a specific learning process. Stackoverflow is a question-and-answer platform for programmers and developers.

The benchmark analysis compared the features and functionality of the Student Room platform to those offered by these similar systems.

### B. Feasibility Analysis Summary

The feasibility analysis for the Student Room platform was based on a survey of students using questionnaires. The survey found that a large majority of respondents expressed a desire for features such as Research List (93%), Simulation (86%), Discussion Forum (84.2%), Mock Test (80.7%), and Question Bank (66.7%). These results suggest that there is strong demand for the types of resources and tools offered by the Student Room platform, and that the platform is likely to be well-used by students if it is made available to them. Overall, the results of the feasibility analysis suggest that the Student Room platform is a viable and potentially successful project, with a high level of interest and demand among students for the types of resources and features it offers.

### C. SWOT Analysis

#### 1) Strengths:

1. Wide range of useful and well-designed features, including a discussion forum, mock tests, a question bank, and simulations, which support student learning and academic success.
2. A central hub for learning and academic support.

#### 2) Weakness:

1. Limited reach or adoption among students, if the platform is not widely known or used.
2. Lack of integration with other learning tools or resources.

#### 3) Opportunities:

1. Partnering with schools or universities to make the platform more widely available to students.
2. Expanding the range of resources and tools available on the platform to support a wider range of subjects.
3. Developing new features or integration with other learning tools to enhance the user experience and make the platform more valuable to students.

*4) Threats:*

1. Competition from other student platforms.
2. Changes in education technology or trends that make the platform less relevant or appealing to students.
3. Limited resources for development and support of the platform.

#### IV. SPECIFIC REQUIREMENT ANALYSIS

##### A. Selected Feature Set based on market research

Based on the results of the benchmark analysis and feasibility analysis, the following feature set has been selected for the Student Room platform:

**Latest Research List:** This feature allows students to access a directory of researchers and experts in various fields, helping them to find and connect with experts in their area of study.

**Simulation:** This feature allows students to engage in virtual simulations and scenarios to enhance their learning and understanding of complex concepts.

**Discussion Forum:** This feature allows students to engage in discussions with their peers and experts in their field of study. The forum is organized by subject, making it easy for students to find relevant conversations and participate in discussions that interest them.

**Mock Test:** This feature allows students to practice and prepare for exams by taking practice tests that mimic the format and content of real exams.

**Question Bank:** This is a collection of practice questions and answers that students can use to test their knowledge and understanding of course material.

Overall, these features have been selected based on market research, including the benchmark analysis and feasibility analysis, and are intended to meet the needs and preferences of the target market of students. These features are designed to support student learning and academic success, and provide students with the resources and support they need to succeed in their studies.

##### B. Specific Requirements/workflow of the features

Here are the specific requirements and workflow for each of the features included in the Student Room platform:

**Discussion Forum:**

**Requirement:** A forum organized by subject, allowing students to engage in discussions with their peers and experts in their field of study.

**Workflow:** Students can browse the forum by subject and participate in discussions by posting comments.

**Mock Test:**

**Requirement:** A collection of practice tests that mimic the format and content of real exams, allowing students to practice and prepare for exams.

**Workflow:** Students can access the mock tests through the platform, and complete the tests using the provided interface. The platform includes features such as a timer and a score tracker to help students simulate the exam experience as closely as possible.

**Question Bank:**

**Requirement:** A collection of practice questions and answers, organized by subject, that students can use to test their knowledge and understanding of course material.

**Workflow:** Students can access the question bank through the platform, and browse for questions by subject.

**Latest Research List:**

**Requirement:** A directory of researchers and experts of UIU, with contact information and a brief overview of their research interests and expertise.

**Workflow:** Students can view the contact information and research interests of the listed experts. Students can also contact with the experts, using the provided contact information.

**Simulation:**

**Requirement:** Virtual simulations or scenarios that allow students to practice and apply their knowledge and understanding of complex concepts.

**Workflow:** Students can access and participate in simulations through the platform, using the provided interface and instructions.

### C. Set of Tools & Technologies used

1. Language: PHP, HTML, CSS, MySQL, Javascript
2. Tool: VS Code, XAMPP
3. Other Platforms: Github, Jira

## V. DEVELOPMENT PLANNING

### A. Project Roadmap and workload distribution in sprint cycles

Projects / STUDENT ROOM

### Roadmap

DEC '22 JAN

Sprints	SR-Sp... SR-Spri... SR-Spri... SR-Spri...
SR-72 Home Page	[Progress Bar]
SR-74 navigation bar	[Status: DONE NR]
SR-73 Front page	[Status: DONE NR]
SR-2 Discussion Forum	[Progress Bar]
SR-3 Question Bank	[Progress Bar]
SR-21 Admin Panel	[Progress Bar]
SR-4 Simulation	[Progress Bar]
SR-5 Mock Test	[Progress Bar]
SR-8 Research Update	[Progress Bar]
SR-13 Authen	[Progress Bar]

Status category: SM NR KA SA +2. Status: Epic. View settings.

SR-72 Home Page

**Home Page**

To Do

Description: Add a description...

Child issues: Order by 100% Done

- SR-74 navigation bar: NR DONE
- SR-73 Front page: NR DONE

Add a comment... Pro tip: press M to comment

SR-2

**Done** ✓ Done

Description: Add a description...

Child issues: Order by 100% Done

- SR-24 Post: SA DONE
- SR-29 Admin Approval: SA DONE
- SR-25 Comment: SA DONE

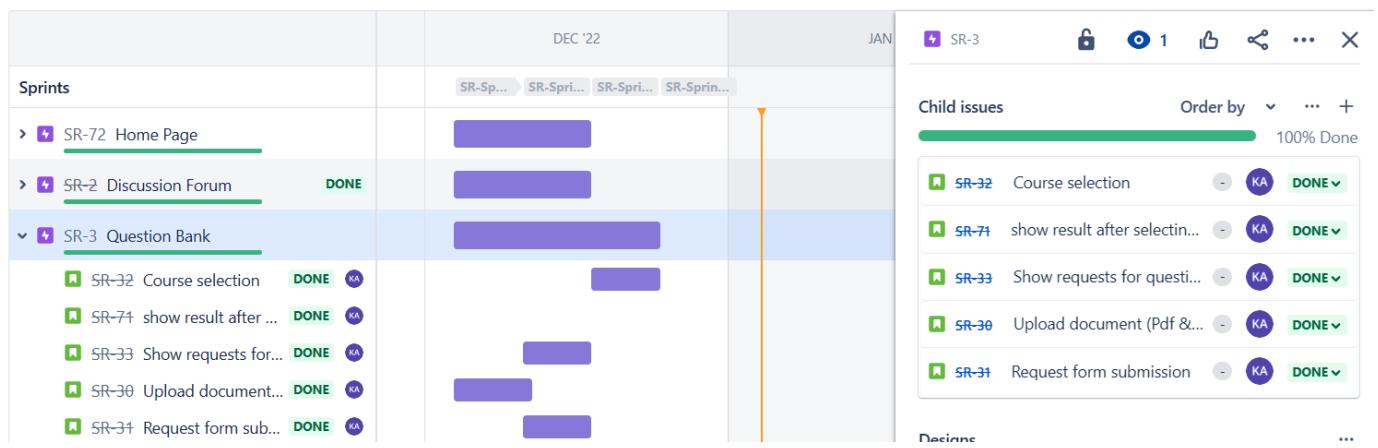
SR-21 Admin Panel

SR-44 approve post: NR DONE

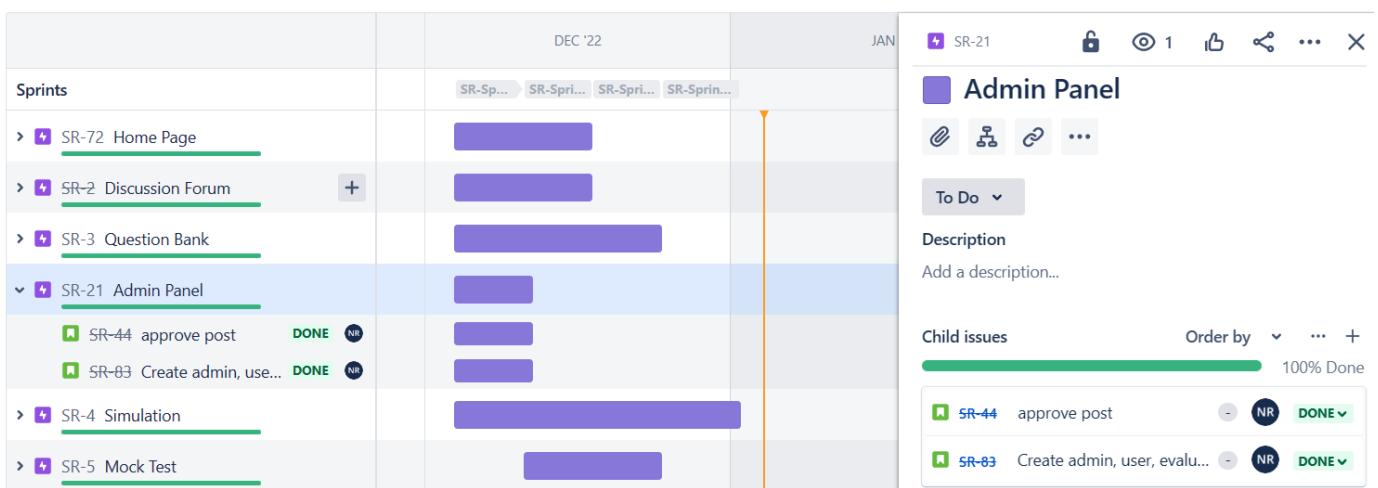
SR-82 Create admin user: NR DONE

Give feedback Share Export ...

## Roadmap

[Give feedback](#) [Share](#) [Export](#) ...
[View settings](#)

## Roadmap

[Give feedback](#) [Share](#) [Export](#) ...
[View settings](#)

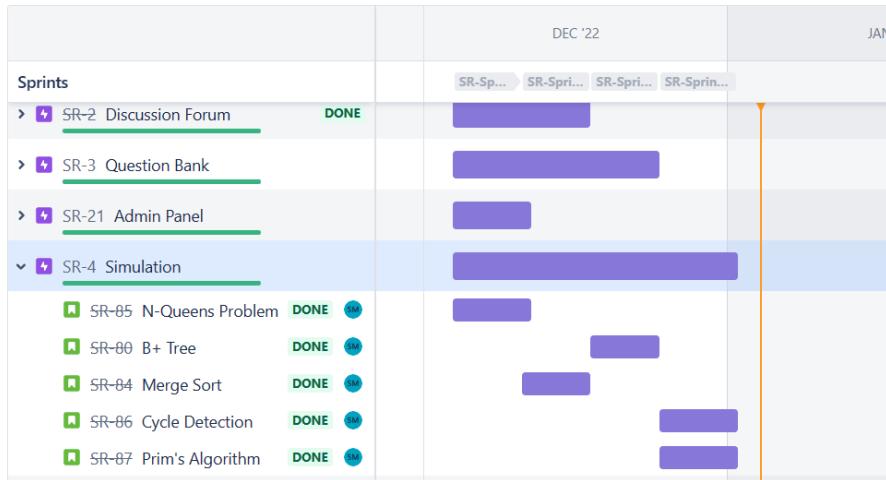
## Roadmap

[Give feedback](#)[Share](#)[Export](#) ...

SM NR KA SA +2

Status category

Epic

[View settings](#)

SR-4



1

**Description**

Add a description...

**Child issues**

Order by



100% Done

SR-85	N-Queens Problem	<span style="color: grey;">-</span>	SM	<b>DONE</b>
SR-80	B+ Tree	<span style="color: grey;">-</span>	SM	<b>DONE</b>
SR-84	Merge Sort	<span style="color: grey;">-</span>	SM	<b>DONE</b>
SR-86	Cycle Detection	<span style="color: grey;">-</span>	SM	<b>DONE</b>
SR-87	Prim's Algorithm	<span style="color: grey;">-</span>	SM	<b>DONE</b>

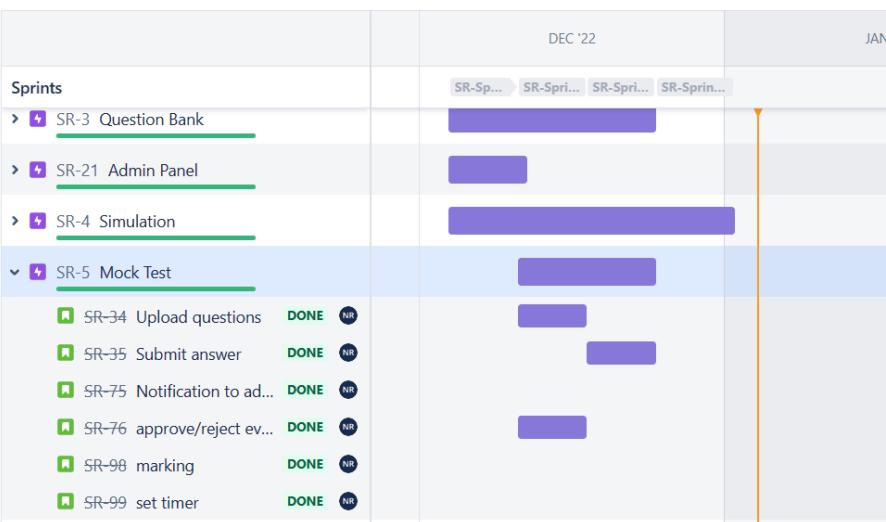
## Roadmap

[Give feedback](#)[Share](#)[Export](#) ...

SM NR KA SA +2

Status category

Epic

[View settings](#)

SR-5



1

**Child issues**

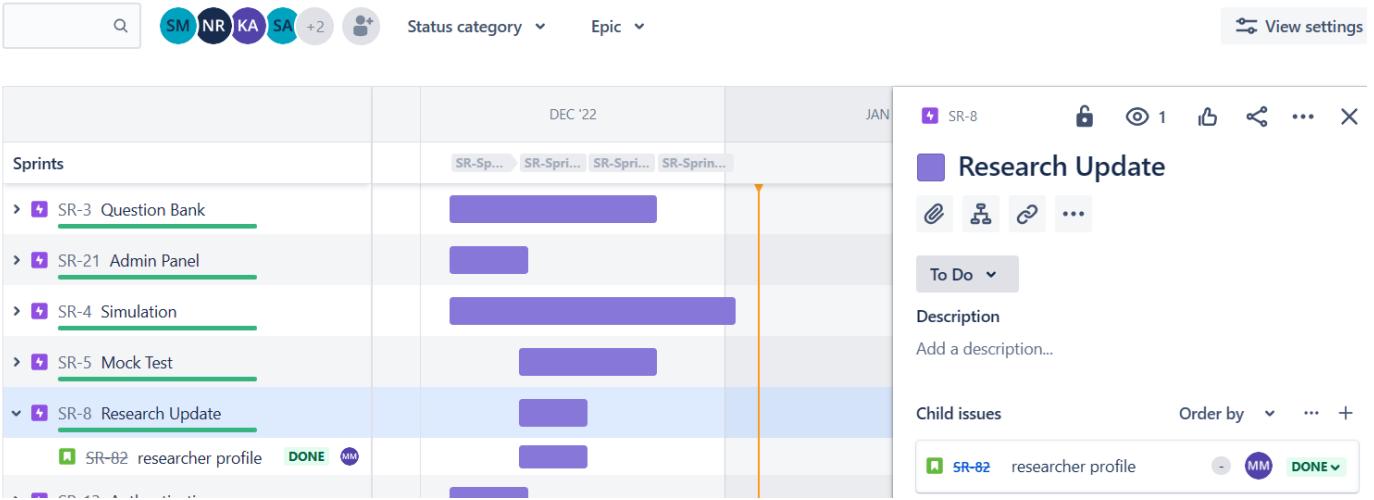
Order by



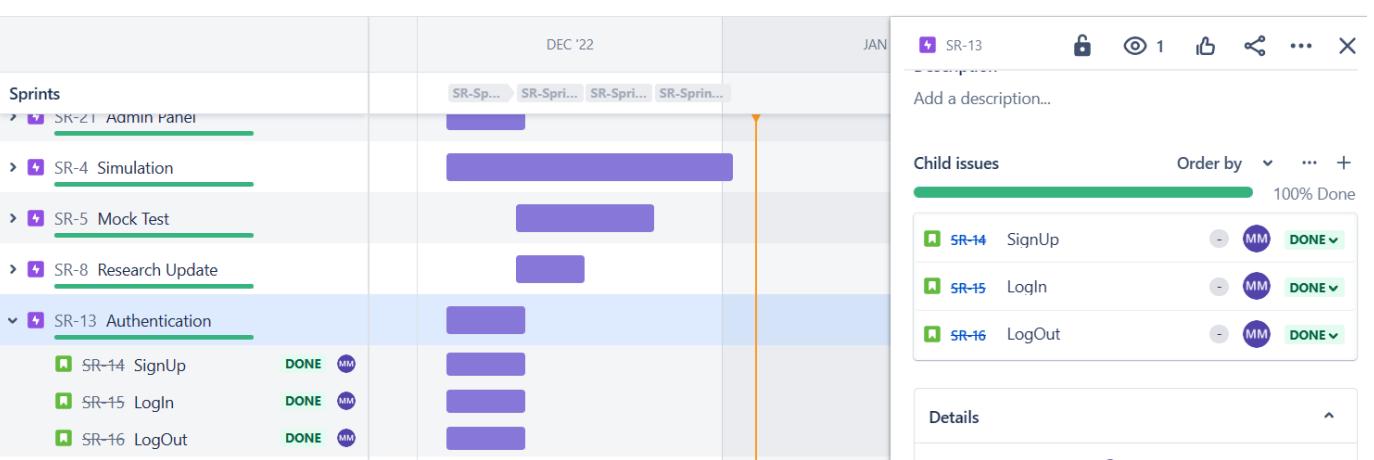
100% Done

SR-34	Upload questions	<span style="color: grey;">-</span>	NR	<b>DONE</b>
SR-35	Submit answer	<span style="color: grey;">-</span>	NR	<b>DONE</b>
SR-75	Notification to admin	<span style="color: grey;">-</span>	NR	<b>DONE</b>
SR-76	approve/reject evaluator	<span style="color: grey;">-</span>	NR	<b>DONE</b>
SR-98	marking	<span style="color: grey;">-</span>	NR	<b>DONE</b>
SR-99	set timer	<span style="color: grey;">-</span>	NR	<b>DONE</b>

## Roadmap

[Give feedback](#)[Share](#)[Export](#) ...

## Roadmap

[Give feedback](#)[Share](#)[Export](#) ...

## Roadmap

[Give feedback](#)[Share](#)[Export](#) ...

Status category

Epic

[View settings](#)

SR-20



### Search



To Do

Description

Add a description...

Child issues

Order by

SR-63 Show result by integrat... SIM DONE

Details

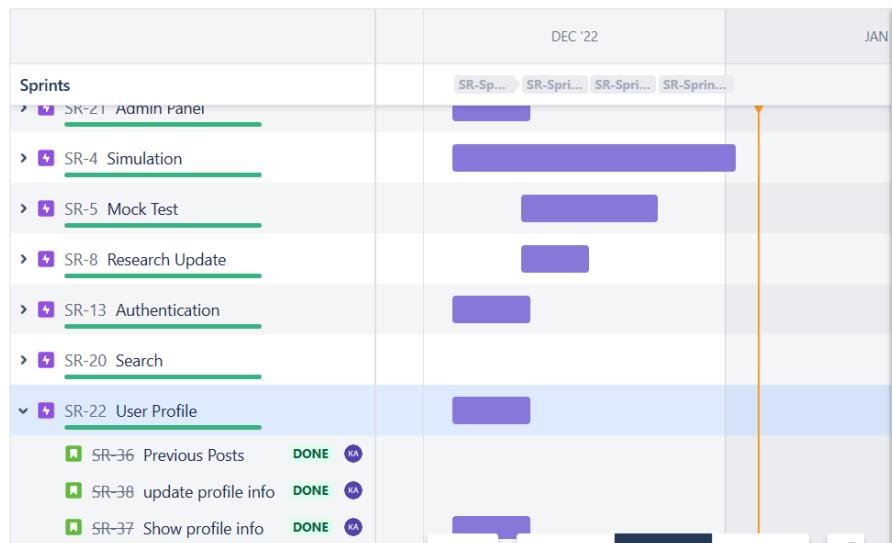
[Give feedback](#)[Share](#)[Export](#) ...

## Roadmap



Status category

Epic

[View settings](#)

SR-22



Description

Add a description...

Child issues

Order by

100% Done

SR-36 Previous Posts



SR-38 update profile info



SR-37 Show profile info



Details

Assignee K. M Shahriar Alam Adib

SM

Add a comment...

B. Final UI Design

StudentRoom    Login    Signup

## Signup to Student Room

Name

Email

Password

Confirm Password

Make sure to type the same password

**SignUp**

StudentRoom    Login    Signup

## Login to Student Room

Username

Password

**Login**



***The Expert in anything  
was once a beginner***

-NO IDEA WHO SAID THAT



**Question  
Bank**



**Discussion  
Forum**



**Mock Test**



**Research  
Papers**



**Simulation**

RESEARCH UPDATE •

New notification

Abdur Rahman- a researcher you follow  
published a article.[View](#)

## ***The Expert in anything was once a beginner***

-NO IDEA WHO SAID THAT



**Question  
Bank**



**Discussion  
Forum**



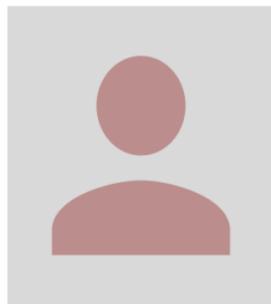
**Mock Test**



**Research  
Papers**



**Simulation**



Name :

E-MAIL :

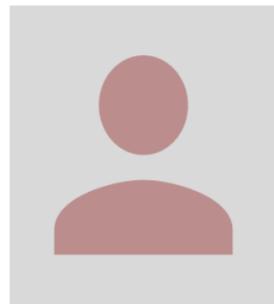
Trimester :

[Update Profile](#)

### Previous Posts

Requested for Data Structrue-1 Mid Question of Summer-2022.

Requested for Arduino.



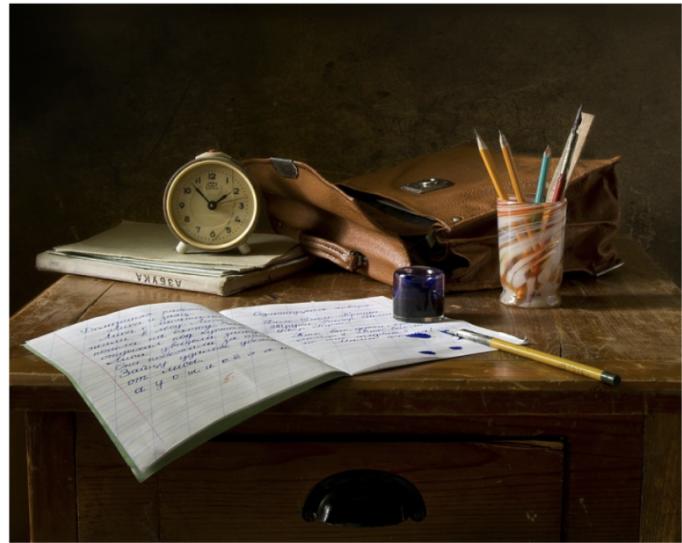
Name :

Password :

Confirm Password :

Update

# Largest Question Bank of UIU

[Upload](#)[Request](#)[Questions](#) [Artificial Intelligence](#)[Mid Term](#)[Final Term](#)[System Analysis and Design](#)[Financial and Managerial Accounting](#)[Electronics](#)

## FORM TO UPLOAD QUESTION

No File Choosen

## Request for Question

Saif Rahman requested for Data Structure-1 Mid Question of Summer-2022.

Anish Saha requested for BDS Mid Question of Summer-2021.

Rahim requested for Machine Learning Final Question of Summer-2021.

## Request Form

 Name Course Name of the Question Trimester

## Artificial Intelligence: Mid Term Questions

Questions	Department	View Question	Download Question
Summer 2022- Mid	CSE	<a href="#">Tap Here to View</a>	<a href="#">Tap Here to Download</a>
Winter 2021- Mid	CSE	<a href="#">Tap Here to View</a>	<a href="#">Tap Here to Download</a>
Fall 2021- Mid	CSE	<a href="#">Tap Here to View</a>	<a href="#">Tap Here to Download</a>
Winter 2020- Mid	CSE	<a href="#">Tap Here to View</a>	<a href="#">Tap Here to Download</a>
Fall 2020- Mid	CSE	<a href="#">Tap Here to View</a>	<a href="#">Tap Here to Download</a>
Summer 2020- Mid	CSE	<a href="#">Tap Here to View</a>	<a href="#">Tap Here to Download</a>
Winter 2020- Mid	CSE	<a href="#">Tap Here to View</a>	<a href="#">Tap Here to Download</a>
Summer 2019- Mid	CSE	<a href="#">Tap Here to View</a>	<a href="#">Tap Here to Download</a>

## Discussion Forum - Browse Categories



### Counselling

Lorem ipsum dolor sit amet, rushebour consectetur

[View Threads](#)



### Exchange/Sell

Lorem ipsum dolor sit amet, rushebour consectetur

[View Threads](#)

## Welcome to Counselling forum

Ask any questions and get help from seniors

This is peer-to-peer forum. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

### Start Discussion

Problem Title

  
Keep your title as short as possible

Problem Description

### Browse Questions



How to determine candidate key?

Asked by XYZ user at 2022-14-11 20:59:31

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.



How to do swot analysis?

Asked by ABC user at 2022-14-11 20:59:31

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.



Is benchmark analysis helpful?

Asked by ABC user at 2022-14-11 20:59:31

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This is peer-to-peer forum. Lorem ipsum dolor sit amet et dolore magna aliqua. Remain respectful to others.

## How to determine candidate key?

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

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Posted by: XYZ user

### Post a Comment

Type your comment

### Discussions



Adib at 2022-11-14 22:01:28

Lorem ipsum dolor sit amet, fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.



Reya at 2022-11-14 22:01:28

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Maria at 2022-11-14 22:01:28

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## Perform A Mock Test

Get better preparation for exams

This is peer-to-peer forum. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

[See Previous Tests](#)[Be An Evaluator](#)[Upload Question](#)

### Get Ready To Perform A Test!

Select Course

v

Select Topic

[Submit](#)

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## Get Ready To Perform A Test!

Time Remaining: 20m 16s

Accordion toggle top

Anim pariatur cliche reprehenderit, enim eiusmod high life accusamus terry richardson ad squid. 3 wolf moon officia aute, non cupidatat skateboard dolor brunch. Food truck quinoa nesciunt laborum eiusmod. Brunch 3 wolf moon tempor, sunt aliqua put a bird on it squid single-origin coffee nulla assumenda shoreditch et. Nihil anim keffiyeh helvetica, craft beer labore wes anderson cred nesciunt sapiente ea proident. Ad vegan excepteur butcher vice lomo. Leggings occaecat craft beer farm-to-table, raw denim aesthetic synth nesciunt you probably haven't heard of them accusamus labore sustainable VHS.

Select Your Answer

- Option A
- Option B
- Option C
- Option D

Submit

Previous

Next

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## Perform A Mock Test

Ask any questions and get help from seniors

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

### Upload Question and Get Feedbacks

Select Course

Upload Question

Upload Answer

Brief Description

**DSA 1**

Some quick example text to build on the card title and make up the bulk of the card's content.

[View Details](#)**DBMS**

Some quick example text to build on the card title and make up the bulk of the card's content.

[View Details](#)**Microcontroller**

Some quick example text to build on the card title and make up the bulk of the card's content.

[View Details](#)**SQD**

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[View Details](#)**Electronics**

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[View Details](#)**IPE**

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[View Details](#)**ICS**

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[View Details](#)**SPL**

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[View Details](#)[Previous](#) 1 2 3 [Next](#)

**DSA 1**

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[View Details](#)**DBMS**

Some quick example text to build on the card title and make up the bulk of the card's content.

[View Details](#)**Microcontroller**

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[View Details](#)**S&D**

Some quick example text to build on the card title and make up the bulk of the card's content.

[View Details](#)

## Details

## Uploaded Question

DSA\_ct\_question\_spring21.pdf



## Uploaded Answer

camscanner20\_10\_22.pdf



## Feedback

camscanner20\_10\_22.pdf

**Electronics**

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[View Details](#)**IPE**

Some quick example text to build on the card title and make up the bulk of the card's content.

[View Details](#)**ICS**

Some quick example text to build on the card title and make up the bulk of the card's content.

[View Details](#)**SPL**

Some quick example text to build on the card title and make up the bulk of the card's content.

[View Details](#)

**Merge Sort****Mock Test****Merge Sort****N-Queens Problem****B+ Tree****Cycle Detection****Prim's Algorithm**

**Merge Sort****N-Queens Problem****B+ Tree****Cycle Detection****Prim's Algorithm**

**Play**

## Merge Sort



Know more about Merge Sort

27 38

3 43

9 82

10

3 27 38 43

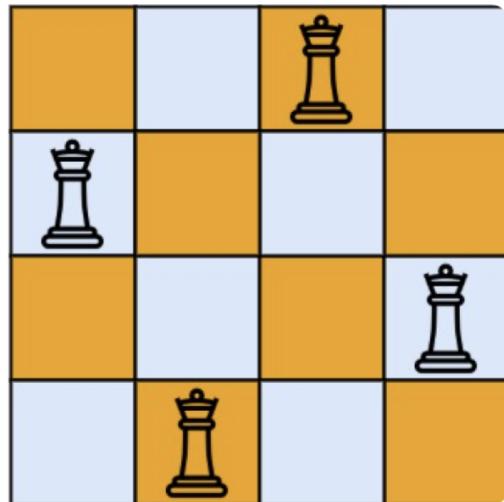
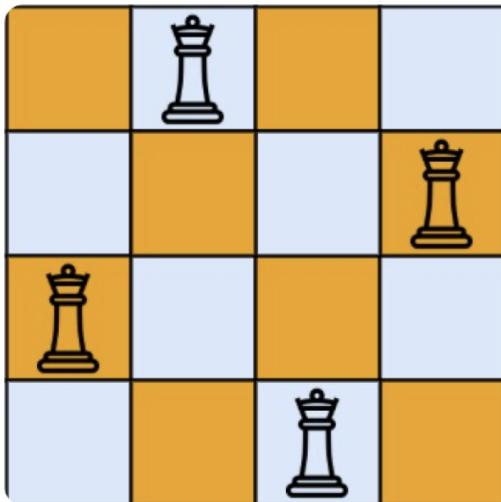
9 10 82

3 9 10 27 38 43 82

## N-Queens Problem

**Play**

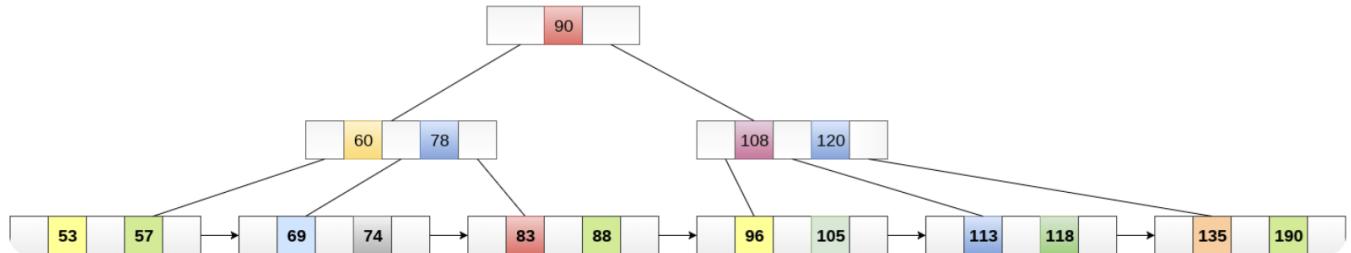
Know more about N-Queens Problem



## B+ Tree

**Play**

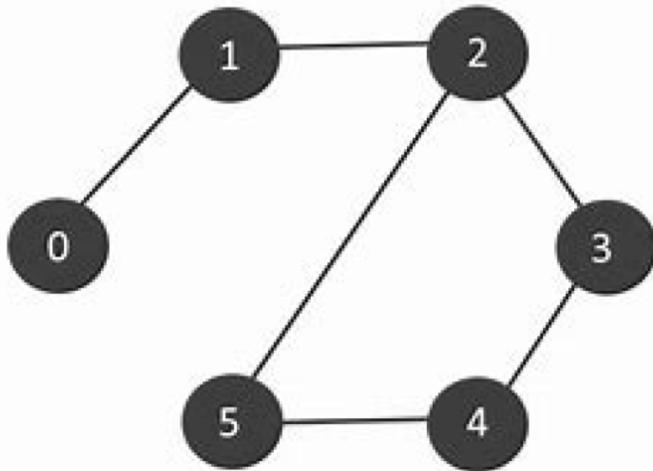
Know more about B+ Tree



## Cycle Detection

**Play**

Know more about Cycle Detection

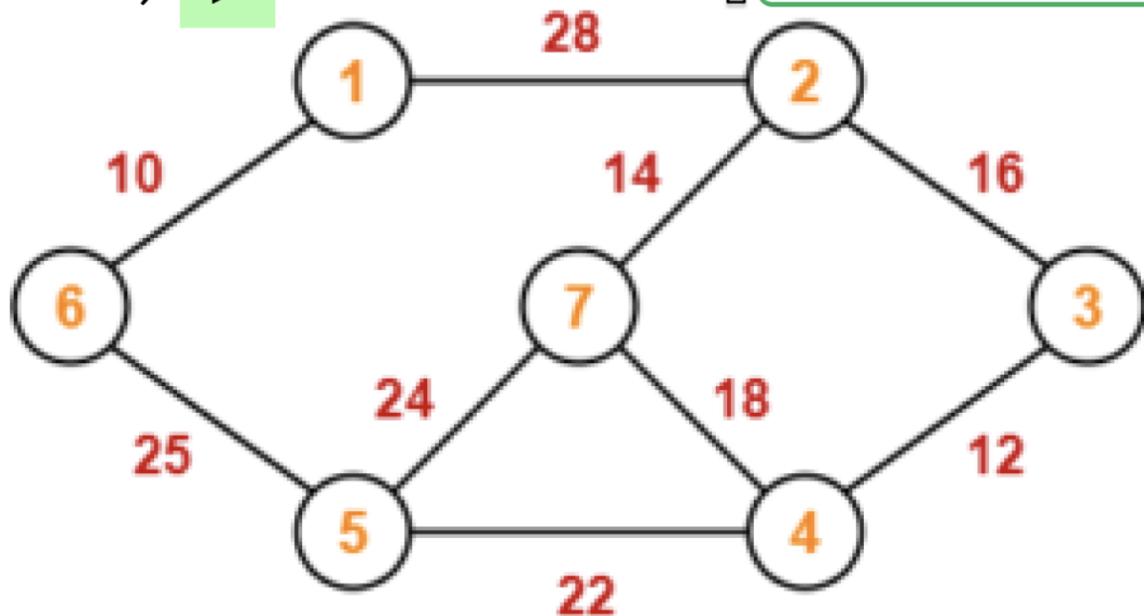


Cycle: 2-3-4-5-2

## Prim's Algorithm

**Play**

Know more about Prim's Algorithm



# Researcher Profiles



Abdur Rahman  
Professor

[Details](#)

Abdur Rahman  
Professor

[Details](#)

Abdur Rahman  
Professor

[Details](#)

Abdur Rahman  
Professor

[Details](#)

Abdur Rahman  
Professor



Abdur Rahman  
Professor



Abdur Rahman  
Professor



Abdur Rahman  
Professor

# Researcher Details

[Follow](#)**Total Followers**

122

## Abdur Rahman

United Internation University, Faculty Member

Research Interests: Protein Structures, Genome Rearrangement,  
Phylogenetic Trees, Clustering

About: Aaaaaa nnnnnn l kdmg skfoig ekfnfknek dk  
gkgndlg fdngkkne sfihynekf vldjgor

### ARTICLES

# Articles

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum

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1 2 3 >>

## VI. FINAL PROJECT UPDATE

### A. Project Completion Status

Completed

### B. Project Features Demonstration

Discussion Forum: Users can post and comment for different topics. They can also request for help and study materials.  
Mock test: Students can perform exams on different courses and topics. Here admins can set exams, timer, add options with images.

Question Bank: Students can upload, download questions of different courses. They can also request to others for questions.

Research Update: Users can get research updates. They can view profiles of faculties.

Simulation: Different algorithms can be simulated in our project for better understanding.

### C. Project Show Feedback

Samin Sharaf Somik: Other than Simulation, Video tutorials can be added.

Irtesam Mahmud Khan: Interactive UI should be used. And the UI must be user-friendly.

## VII. CONCLUSION & FUTURE WORK

In conclusion, the Student Room platform is a comprehensive and user-friendly resource for students, with a range of tools and features that are designed to support learning and academic success. The platform includes features such as a Discussion Forum, Mock Test, Question Bank, Latest Research List, and Simulation, which have been selected based on market research and the results of the benchmark analysis and feasibility analysis. These features are designed to meet the

needs and preferences of the target market of students and provide them with the resources and support they need to succeed in their studies.

In future work, one possible direction for the Student Room platform is to continue to expand and improve its existing features. For example, the platform could add new features to the discussion forum, such as the ability to create polls or surveys, or to include multimedia content in posts. The mock tests and question bank could also be expanded to include more practice questions and answers, to give students even more opportunities to practice and prepare for exams.

Another potential direction for the Student Room platform is to integrate with other learning tools and resources. For example, the platform could be linked to online resources such as textbook reading materials or lecture videos, allowing students to access all of their learning materials in one place. The platform could also be integrated with learning management systems, allowing students to access their course materials and assignments directly from the Student Room platform.