



### Final Year Project Showcase Batch 2021 Year 2025

**Department: Department of Computer Science & Information Technology**  
**Programme: BS Computer Science**

|   |   |
|---|---|
| 1 | <p><b>Project Title</b></p> <p>Design and Development of a Smart Proctoring System for Online Assessments.</p>  |
| 2 | <p><b>Project Idea</b></p> <p>The project aims to address the challenges of cheating and integrity in online examinations by developing an AI-powered proctoring system named CheatProof.</p> <p>This project aims to provide a comprehensive, scalable, and cost-effective solution that ensures academic integrity while enhancing the exam experience for both students and educators. CheatProof integrates advanced features such as <b>head-pose detection, gaze tracking, and object detection</b> enabling real-time identification of suspicious behavior. It also includes <b>browser locking mechanisms, IP restrictions and activity monitoring</b>, all contributing to a secure testing environment.</p> <p>Beyond proctoring, CheatProof supports the <b>entire exam lifecycle</b>, from test creation and question bank management to performance analytics and result generation, making it a one-stop platform for digital assessments. The system is designed to meet the needs of universities, professional certification bodies, and training organizations, particularly in regions where cost and accessibility are major concerns.</p> <p>By combining AI-driven monitoring with a user-friendly interface and strong backend infrastructure, The system empowers institutions to conduct credible, data-backed, and fair assessments in an increasingly digital academic world.</p> |
| 3 | <p><b>Process</b></p> <p><b>1. Methodology:</b> System was developed using the <b>Agile development methodology</b>, enabling rapid, flexible, and incremental progress. The project followed an iterative cycle involving continuous feedback, and adaptive planning.</p> <p><b>2. Technologies Used:</b><br/> <b>Frontend:</b> React JS, Tailwind CSS<br/> <b>Backend:</b> Node.js, Express.js, Flask (Python)<br/> <b>Database:</b> MySQL</p> <p><b>3. AI Models:</b><br/> <b>a. YOLO (You Only Look Once):</b> For real-time object detection to identify unauthorized devices or second persons during the exam.<br/> <b>b. OpenCV:</b> For implementing gaze tracking to monitor student eye movement and detect suspicious behavior.<br/> <b>c. MediaPipe:</b> For precise head-pose detection to ensure students are focused on their screens.</p>  |

## 4. Key Steps:

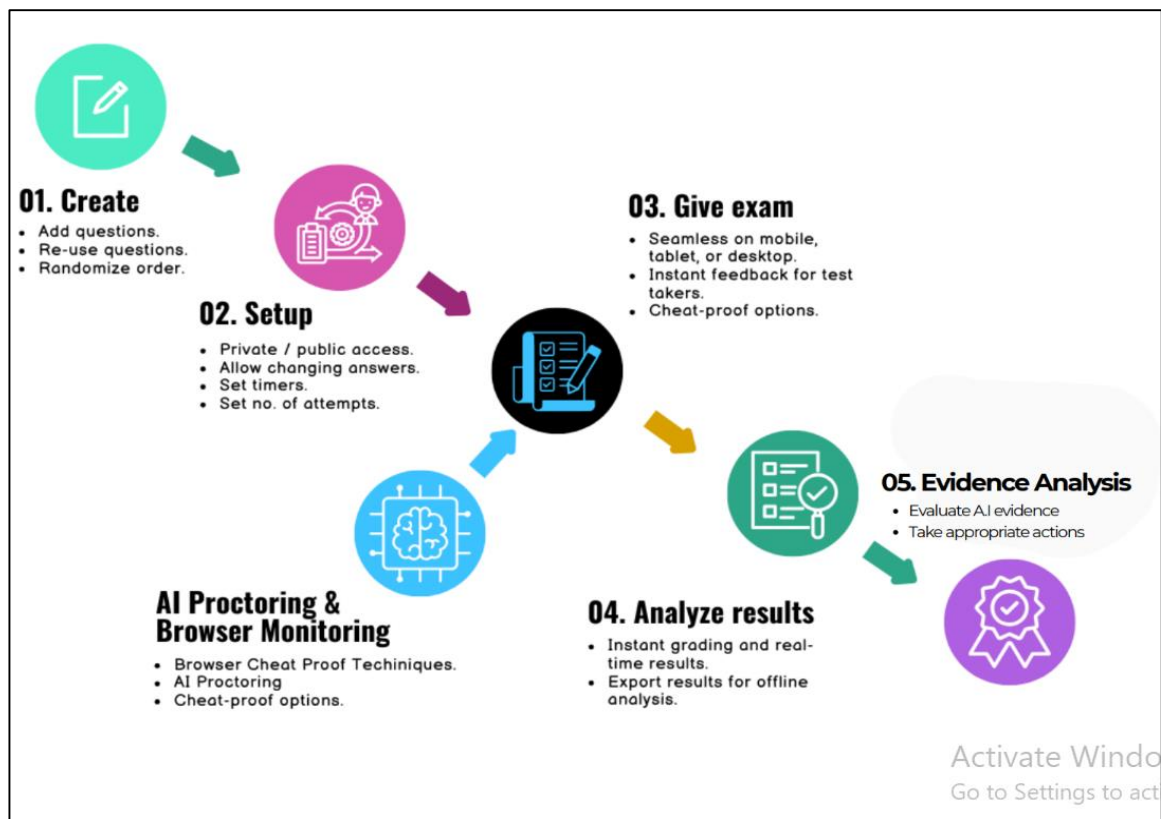
**a. Requirement analysis:** Detailed research was conducted to understand the shortcomings of current proctoring tools and the specific needs of educational institutions.

**b. System Design:** Architected a modular and scalable system capable of handling AI model integration, role-based dashboards, and secure exam management workflows.

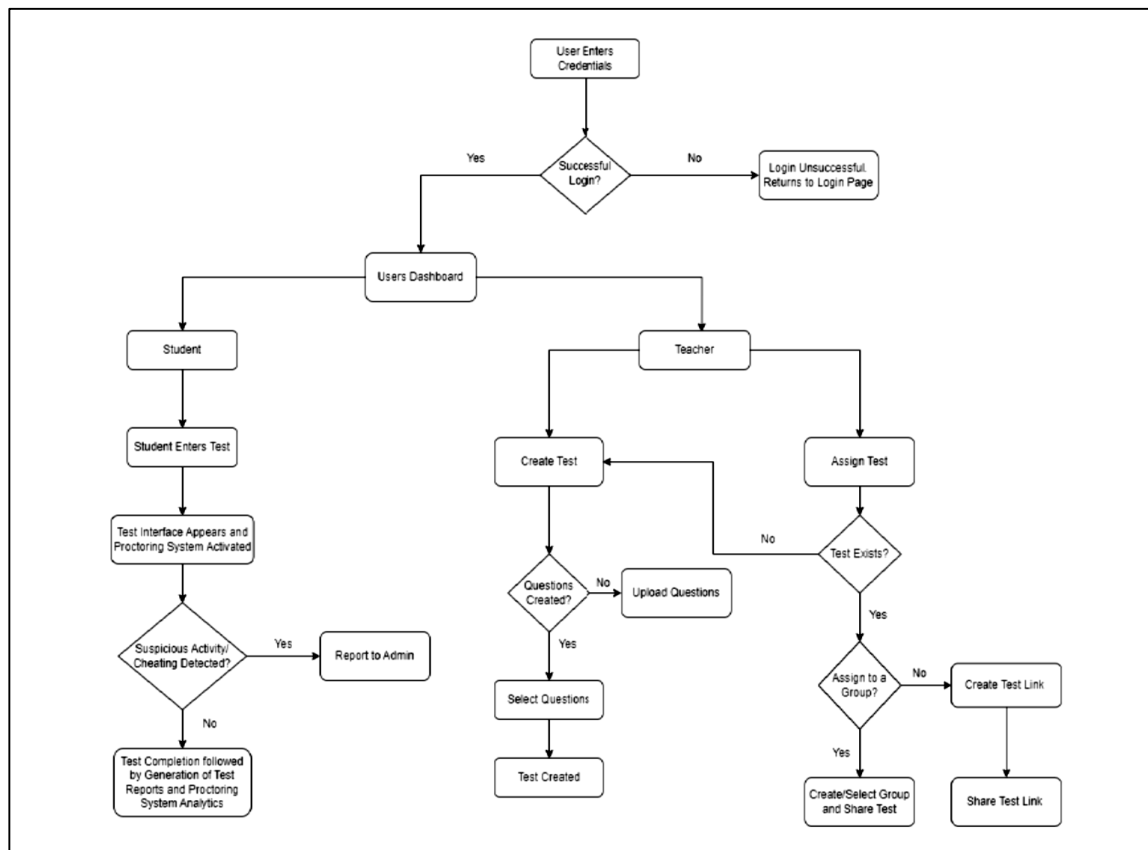
**c. Integration of AI Proctoring:** Integrated computer vision models (YOLO, MediaPipe, OpenCV) for real-time monitoring. Flask was used to bridge Python-based AI tools with the JavaScript-based backend via APIs.

**d. Rigorous testing** including unit tests and integration tests were carried out in multiple testing phases.

**e. Deployment:** Deployed the platform on a cloud environment, ensuring secure access, scalability, and minimal latency. CI/CD pipelines were configured for faster rollouts and updates.



#### 5. System Flow Diagram:



#### *Outcome*

4

A fully functional platform for creating, administering, and proctoring online exams. Successfully tested in real-world scenarios (e.g., live quizzes for 200+ concurrent users). Demonstrated 95% accuracy in detecting malpractice (e.g., phone usage, tab switching).

#### *Evidence* (Theoretical Basis)

5

The project builds on research in AI proctoring (e.g., gaze tracking, identity verification) and addresses gaps in existing tools like ProctorParhai and Classmarker. It combines secure exam management with advanced monitoring, as validated in peer-reviewed studies cited in the report (e.g., Malhotra et al., 2022).

#### *Impact on Sustainability of Urban Regions or SDG-11 “Sustainable Cities and Communities”*

6

The project contributes to Sustainable Development Goal (SDG) 11 by:

1. **Reducing Infrastructure Pressure:** Enables online assessments, reducing the need for physical exam centers, travel, and resource consumption in urban areas.
2. **Promoting Digital Inclusivity:** Provides equitable access to secure exams in underserved urban communities through low-bandwidth support and affordability.



|   |  |
|---|--|
|   | <ol style="list-style-type: none"> <li><b>Enhancing Urban Resilience:</b> Ensures continuity of education during crises (e.g., pandemics) through a remote-ready, always-available exam system.</li> <li><b>Lowering Environmental Impact:</b> Minimizes paper usage, transportation emissions, and energy consumption associated with traditional assessments.</li> <li><b>Empowering Smart Cities:</b> Integrates AI and cloud technologies to modernize urban education systems, aligning with smart city goals.</li> <li><b>Fostering Community Development:</b> Builds trust in digital education systems, enabling long-term sustainable learning practices in growing urban populations.</li> </ol> <p><b>Contribution to Other Sustainable Development Goals</b></p> <p><b>SDG 4: Quality Education</b><br/>The project supports <b>SDG 4</b> by:</p> <ol style="list-style-type: none"> <li><b>Ensuring Equitable Access</b><br/>Delivers credible and secure online assessments to students regardless of location or socio-economic background.</li> <li><b>Maintaining Academic Integrity</b><br/>Uses AI-powered proctoring features such as gaze tracking, head pose detection, and real-time monitoring to prevent cheating.</li> <li><b>Providing a Fair Assessment Environment</b><br/>Offers a secure, accessible, and unbiased digital examination platform to ensure equal opportunities for all learners.</li> </ol> <p><b>SDG 9: Industry, Innovation, and Infrastructure</b><br/>The project supports <b>SDG 9</b> by:</p> <ol style="list-style-type: none"> <li><b>Providing Scalable Educational Infrastructure</b><br/>Leverages modern technologies to deliver a robust, flexible, and cost-effective digital assessment system.</li> <li><b>Driving Innovation in Education</b><br/>Incorporates AI, automation, and analytics to transform conventional exam processes into smart, data-driven systems.</li> <li><b>Enhancing Institutional Resilience</b><br/>Supports educational institutions in adopting innovative, future-ready solutions that improve scalability, efficiency, and sustainability.</li> </ol> |
| 7 | <b>Competitive Advantage or Unique Selling Proposition</b>   |
| a | <p><i>Attainment of any SDG</i></p> <p>While CheatProof primarily supports <b>SDG 4 (Quality Education)</b> and <b>SDG 9 (Industry, Innovation, and Infrastructure)</b>, it also contributes to <b>SDG 11 (Sustainable Cities and Communities)</b> by promoting equitable, tech-driven education in urban regions.</p> <ul style="list-style-type: none"> <li><b>SDG 4 (Quality Education):</b> Ensures fair and credible online assessments by preventing cheating through AI-powered proctoring (e.g., gaze tracking, object detection). Increases accessibility to remote education by providing a secure, scalable platform for institutions in underserved areas.</li> <li><b>SDG 9 (Industry, Innovation, and Infrastructure):</b> Introduces scalable, AI-driven infrastructure for online examinations, reducing reliance on manual invigilation. Promotes digital innovation in education systems and strengthens the resilience of institutions post-pandemic.</li> </ul>  |



|   |   |
|---|---|
|   | <ul style="list-style-type: none"> <li>• <b>SDG 11 (Sustainable Cities and Communities):</b> Supports digital transformation in urban education systems, reduces exam-related infrastructure pressure, and fosters inclusive, resilient communities through remote-ready assessment tools.</li> </ul>   |
| c | <p><b><i>Cost Reduction and Improved Efficiency compared to Existing Solutions</i></b></p> <p>CheatProof significantly lowers the cost of digital assessments by unifying all key features into one platform:</p> <ul style="list-style-type: none"> <li>• Significantly improves the entire online examination process by integrating test creation, AI-based proctoring, question bank and group's management, and result analytics into a <b>single unified platform</b>.</li> <li>• Unlike existing solutions that require multiple disconnected tools for assessment, monitoring, and reporting, CheatProof streamlines the workflow—reducing manual effort, operational costs, and administrative overhead.</li> <li>• By automating identity verification, behavior tracking during examination, and result generation, the system not only ensures <b>higher exam integrity</b> but also delivers <b>faster, more accurate evaluations</b>.</li> <li>• Project's end-to-end automation increases efficiency, enhances the overall user experience for students and educators, and offers institutions a <b>cost-effective alternative</b> to expensive live proctoring or multiple paid tools.</li> </ul> |
| d | <p><b><i>Process Improvement</i></b></p> <p><b>Current Issues in Proctoring:</b></p> <ul style="list-style-type: none"> <li>• <b><u>High Costs</u>:</b> Traditional proctoring requires human invigilators, increasing operational expenses.</li> <li>• <b><u>Scalability Limits</u>:</b> Manual monitoring struggles with large-scale exams (e.g., 1,000+ test-takers).</li> <li>• <b><u>Human Error</u>:</b> Fatigue and bias in human proctors lead to inconsistent malpractice detection.</li> </ul> <p><b>Improvements by CheatProof:</b></p> <ul style="list-style-type: none"> <li>• <b><u>AI Automation</u>:</b> Replaces 90% of manual proctoring tasks, cutting costs by up to 60% for institutions.</li> <li>• <b><u>Real-Time Analytics</u>:</b> Flags suspicious behavior (e.g., phone usage, tab switching) instantly, reducing post-exam review time.</li> <li>• <b><u>24/7 Availability</u>:</b> Unlike human proctors, the system operates continuously without downtime.</li> </ul>   |
| e | <p><b><i>Expansion of Market Share</i></b></p> <p>The system aims on creating substantial opportunities to tap into <b>emerging educational markets</b> by addressing long-standing pain points in online assessment.</p> <p><b>1. Solving Cost and Accessibility Barriers in Underserved Regions</b></p> <p>Existing tools like ProctorParhai and Classmarker are often expensive and lack integrated exam management features. This project offers an affordable, all-in-one solution that removes reliance on expensive human proctoring or fragmented setups, making modern, secure online assessments accessible.</p>  |



|   |  |
|---|--|
|   | <p><b>2. Replacing Outdated Assessment Methods</b><br/>In many regions like South Asia, Africa, and Latin America, institutions still depend on unreliable methods like Zoom monitoring or basic browser lockdowns. CheatProof attempts to capture this market by offering a professional-grade system with AI proctoring, question management, and analytics, meeting modern standards at a fraction of the cost.</p> <hr/> <p><b>3. Targeting Educational Boards, Universities, and Governments</b><br/>With its scalable infrastructure and built-in integrity mechanisms, this system can partner with educational boards and government agencies to standardize digital assessments across regions.</p> <hr/> <p><b>4. Enabling Institutions to Go Fully Online</b><br/>By providing end-to-end exam lifecycle support, from creation to analysis, this project tries to empower smaller institutions to adopt fully digital exam systems without needing multiple tools or technical expertise. This ease of adoption accelerates market capture among schools, colleges, and training centers transitioning to digital.</p>   |
| f | <p><b>Capture New Market</b></p> <p>CheatProof targets underserved markets in developing regions by addressing key accessibility and affordability gaps:</p> <ul style="list-style-type: none"> <li>• <b>Affordable Pricing:</b> Subscription model at 1/3 the cost of competitors, making it ideal for low-resource institutions.</li> <li>• <b>Localized Support:</b> Optimized for low-bandwidth environments, ensuring reliability in remote and rural areas.</li> <li>• <b>All-in-One Solution:</b> Integrates proctoring, test creation, grading, and analytics—offering a complete, cost-effective alternative to fragmented tools.</li> </ul>  |
| 8 | <p><b>Target Market</b></p> <p><b>Primary Users: Universities &amp; Colleges</b><br/>Serves higher education institutions conducting high-stakes exams such as university entrance tests, and online evaluations. With the growing shift toward hybrid and remote learning models, universities are increasingly seeking secure, scalable, and affordable solutions to uphold academic integrity amid rising online cheating cases.</p> <p><b>Certification Bodies (e.g., ISO, Cisco)</b><br/>Ensuring integrity in professional certification exams. AI-powered monitoring, identity authentication, and detailed analytics features ensure the credibility of online certification exams.</p> <p><b>1. Secondary Users: Corporate Training Programs</b><br/>Employee skill assessments with anti-cheating measures.</p> <p><b>2. K–12 Schools Use Case:</b> Supports secure online assessments for school boards and K–12 institutions, especially in regions shifting to remote or hybrid learning models.</p> <p><b>Geographic Focus</b><br/><b>Initial:</b> Initially focused on emerging education markets such as <b>Pakistan, India, and Nigeria</b>, where there is a growing need for cost-effective and secure digital examination solutions.<br/><b>Long-term:</b> aims to partner with <b>global ed-tech companies</b> to offer its scalable exam management and proctoring system worldwide.</p> |
| 9 | <p><b>Team Members</b> (Names along with email address)</p> <ol style="list-style-type: none"> <li>1. Muhammad Jawwad – <a href="mailto:muhammadjawwad417@gmail.com">muhammadjawwad417@gmail.com</a></li> <li>2. Abdul Rafay Chohan – <a href="mailto:abdulrafaychohan986@gmail.com">abdulrafaychohan986@gmail.com</a></li> <li>3. Muhammad Zaryab – <a href="mailto:zaryab.110786@gmail.com">zaryab.110786@gmail.com</a></li> <li>4. Muhammad Rohan – <a href="mailto:rohanahmed5102@gmail.com">rohanahmed5102@gmail.com</a></li> </ol>   |





|    |   |  |
|----|---|--|
| 10 | <b>Supervisor Name</b> (along with email address) | Dr. Abdul Karim Kazi – <a href="mailto:karimkazi@neduet.edu.pk">karimkazi@neduet.edu.pk</a><br>(Assistant Professor, CS & IT)  |
| 11 | <b>Video</b>                                      | <a href="https://drive.google.com/drive/folders/1OLX4h6-6yh3Aa4AK-SGb_2Pr13bV46k?usp=sharing">https://drive.google.com/drive/folders/1OLX4h6-6yh3Aa4AK-SGb_2Pr13bV46k?usp=sharing</a><br><br>This video presents a full demonstration of the CheatProof system, showcasing all major features—from test creation and question management to AI-powered proctoring and result analytics. It offers a complete walkthrough of the platform's capabilities and user experience. |

### Pictures

#### Question Bank Management

The screenshot shows the 'Add New Questions' form in the CheatProof system. The form is divided into several sections:

- 1. Select Question Type:** Includes buttons for Multiple Choice, True/False, Matching, Fill in the Blank, Grammar, and Essay.
- 2. Write your question:** Includes a text area for the question and an optional image upload field.
- 3. Add your multiple choice answer options:** Includes a section for adding multiple choice options with a 'Set as correct answer' checkbox and a 'Mandatory' label.
- 4. Give feedback (optional):** Includes a section for providing feedback for 'Correctly answered' and 'Incorrectly answered' questions.

The screenshot shows the 'Question Bank' list in the CheatProof system. The interface includes a sidebar with navigation options like Dashboard, Tests, Question Bank, Categories, Files, Groups, Links, Activity Monitor, Question Generator, Assistants, and IP Restrictions. The main content area displays a list of questions with filters for Active (488) and Archived (0) questions. The questions are listed with their status, category, and points.

| Question  | Category  | Points |
|---|---|--------|
| Question 1  | Computer Communications & Networks / HCIA - Datacom | 1 pts  |
| When the Trunk port send the data frame, how to deal with?  |   |        |
| <input type="radio"/> When the VLAN ID is different from the PVID of the port, the data frame is dropped<br><input type="radio"/> When the VLAN ID is different from the PVID of the port, replace it with PVID forwarding<br><input checked="" type="radio"/> When the VLAN ID is the same as the PVID of the port and is a VLAN ID allowed by the port, remove the Tag and send the message<br><input type="radio"/> When the VLAN ID is different from the PVID of the port, strip off the TAG and forward |   |        |
| Question 2  | Computer Communications & Networks / HCIA - Datacom | 1 pts  |
| How many bits are there in the VLAN ID in the VLAN format defined by IEEE802.1Q?  |   |        |
| <input type="radio"/> 8<br><input type="radio"/> 10<br><input checked="" type="radio"/> 12<br><input type="radio"/> 6   |   |        |

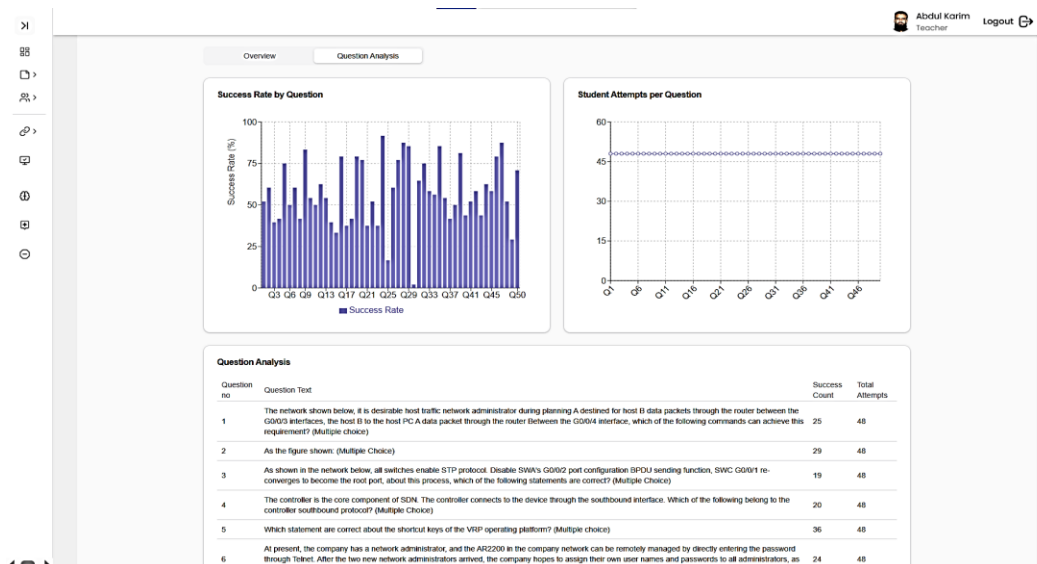


# SUSTAINABLE URBAN REGIONS

NED University of Engineering & Technology



unesco  
Chair



## Teacher's Documents Repository

CheatProof

Dashboard Tests Question Bank Categories Files Groups Links Activity Monitor Question Generator Assistants IP Restrictions

Files

Upload File:

Click to upload a file (image, video, document, audio, etc.)

Reference name

Upload New File

Images

No images available

Documents

1001

Download Replace Delete

Videos

No videos available

Audios

No audios available

Instructions

- Allowed image types: jpg, jpeg, gif, png
- Allowed document types: doc, docx, pdf, ppt, pptx
- Allowed video types: mp4
- Allowed audio types: mp3
- Max file size: Images 500K, Documents 5MB, Videos 5MB, Audio 2MB

Developed and designed by FTEP Group, @xrayn0vaq4. Some icons are from Flaticon.com.

## Categories Management

CheatProof

Dashboard Tests Question Bank Categories Files Groups Links Activity Monitor Question Generator Assistants IP Restrictions

All categories

Dashboards > All categories

Category Management

Organize your content with categories and parent categories

Child Categories Parent Categories

Parent Category

Select a parent category

Category Name

Enter category name

Parent categories group your child categories.

Categories are used to organize your questions.

Add Child Category

Existing Child Categories

| Category         | Number of Questions | Parent Category                    | Actions                                     |
|------------------|---------------------|------------------------------------|---|
| Parent Questions | 0                   | Computer Communications & Networks | <a href="#">Edit</a> <a href="#">Delete</a> |
| Generic          | 0                   | Generic Parent                     | <a href="#">Edit</a> <a href="#">Delete</a> |
| HCIA - Datacom   | 468                 | Computer Communications & Networks | <a href="#">Edit</a> <a href="#">Delete</a> |





## Group Management & Analytics

**CheatProof** K

Abdul Karim Teacher Logout

**Groups** (4 total) [+ New Group](#)

Search groups...

|               |               |                |
|---------------|---------------|----------------|
| AI-TSCS-22    | + Assign Test | Edit Group (3) |
| Testing-Group | + Assign Test | Edit Group (2) |
| DT-TSCS-22    | + Assign Test | Edit Group (4) |
| CR-TSCS-22    | + Assign Test | Edit Group (4) |

**All Group Members**

Search by name or username Filter by group Sort by

Total Members: 175

| Username                       | First Name               | Last Name | Group      | Status     | Actions |
|--------------------------------|--------------------------|-----------|------------|------------|---------|
| M MuhammadAhsan536             | MuhammadAhsan            | AI-22033  | AI-TSCS-22 | (Enrolled) |         |
| A AbdulahKobib8008             | AbdulahKobib             | AI-22026  | AI-TSCS-22 | (Enrolled) |         |
| M muhammadaryab8466            | muhammadaryab            | noqel     | AI-TSCS-22 | (Enrolled) |         |
| S SyedMuhammadDanyalQadri7254  | SyedMuhammadDanyalQadri  | AI-22037  | AI-TSCS-22 | (Enrolled) |         |
| S SajjeelTariq908              | SajjeelTariq             | AI-22029  | AI-TSCS-22 | (Enrolled) |         |
| N noorahussain                 | SyedMuhammadBilalHussain | AI-22046  | AI-TSCS-22 | (Enrolled) |         |
| U UsakAhmed3933                | UsakAhmed                | AI-22092  | AI-TSCS-22 | (Enrolled) |         |
| S SyedMuhammadMessumHassan0902 | SyedMuhammadMessumHassan | AI-22043  | AI-TSCS-22 | (Enrolled) |         |
| M MuhammadImrAkram7598         | MuhammadImrAkram         | AI-22035  | AI-TSCS-22 | (Enrolled) |         |
| H HunzaKhanKodernKhan9473      | HunzaKhanKodernKhan      | AI-22007  | AI-TSCS-22 | (Enrolled) |         |
| A AbdulWagor5651               | AbdulWagor               | AI-22042  | AI-TSCS-22 | (Enrolled) |         |
| Y YusraTariq2753               | YusraTariq               | AI-22080  | AI-TSCS-22 | (Enrolled) |         |
| D Duatharif5896                | Duatharif                | AI-22303  | AI-TSCS-22 | (Enrolled) |         |

**CheatProof** K

Abdul Karim Teacher Logout

**Adding Groups Members**

Manually register users into this Group now. Have their username and password emailed to them. Note: Self registration codes are a separate way to register users and are not required with this option.

**Add New Members**

1,000 Max. Members per Group 51 Members in this Group 949 Member places available

**Example Format**

kim, Sanders, kimg@example.com  
Paul, Smith, paul@example.com

• One user per line  
• First name, last name and email  
• Fields are separated with comma

**New Members**

Enter member details...

**Name Order**

☒ First name, last name, email  
☐ Last name, first name, email

**Language**

English

**Common Password**

Enter a common password

**Administrator Email**

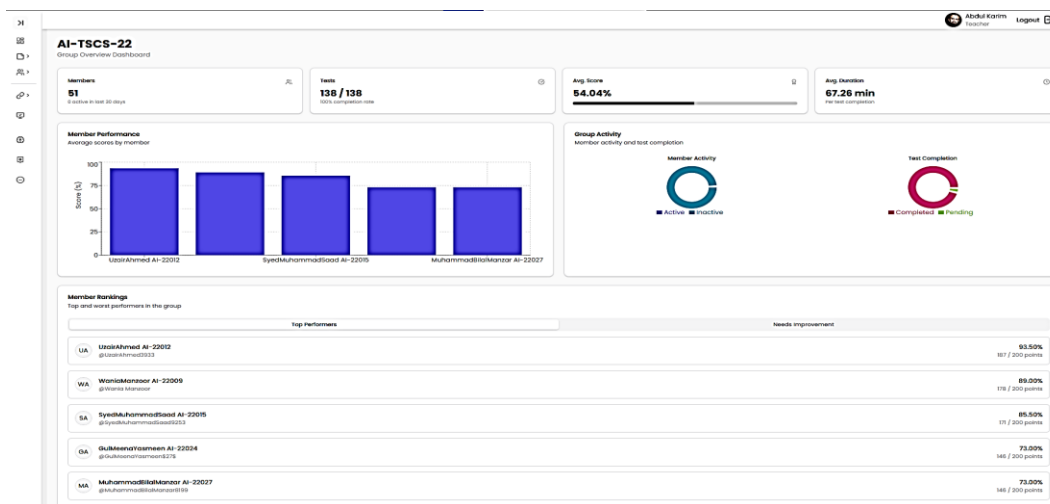
Enter email address

**Send Usernames and Passwords to:**

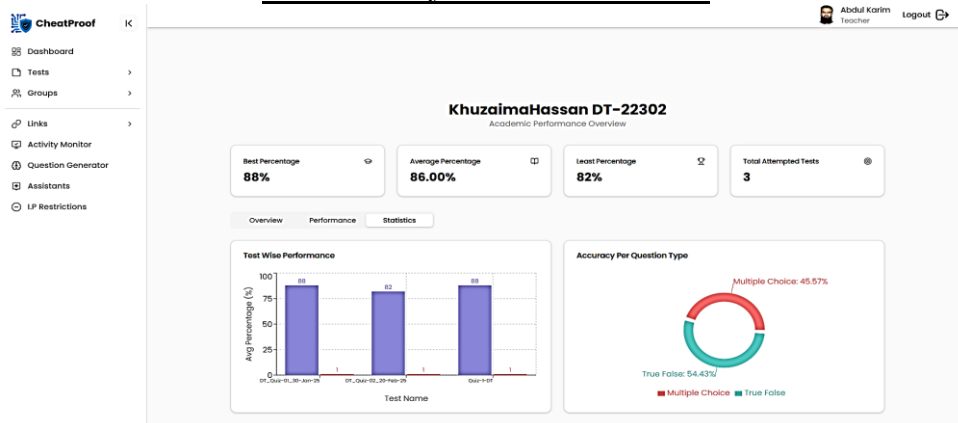
☒ No do not send login details to new members  
☐ Yes Send login details to new members

[Add Members](#)

Developed and designed by PHP Group, gptaryabqul. Some icons are from Flaticon.com.



## Student Analytics and Performance



## Test Management and Analytics

**Tests > All Tests**

| Test Name            | Questions     | Total Pts | Created On              |
|----------------------|---------------|-----------|-------------------------|
| AI_Quiz-01_28-Jan-25 | 50 questions  | 100       | Created on Jan 28, 2025 |
| AI_Quiz-02_20-Feb-25 | 50 questions  | 100       | Created on Feb 20, 2025 |
| AI_Quiz-03_15-Apr-25 | 100 questions | 100       | Created on Apr 15, 2025 |
| CR_Quiz-01_28-Jan-25 | 50 questions  | 100       | Created on Jan 28, 2025 |
| CR_Quiz-02_20-Feb-25 | 50 questions  | 100       | Created on Feb 20, 2025 |
| CR_Quiz-03_15-Apr-25 | 100 questions | 100       | Created on Apr 15, 2025 |
| DT_Quiz-01_30-Jan-25 | 50 questions  | 100       | Created on Jan 30, 2025 |
| DT_Quiz-02_20-Feb-25 | 50 questions  | 100       | Created on Feb 20, 2025 |
| DT_Quiz-03_17-Apr-25 | 100 questions | 100       | Created on Apr 17, 2025 |
| Quiz-1-DT            | 50 questions  | 100       | Created on Jan 20, 2025 |
| Quiz-CCN-CR-1        | 25 questions  | 25        | Created on Jan 21, 2025 |
| Testing 25           | 25 questions  | 25        | Created on Jan 21, 2025 |



# SUSTAINABLE URBAN REGIONS

## NED University of Engineering & Technology



**CheatProof** K

[Dashboard](#)  
[Tests](#)  
[Groups](#)  
[Links](#)  
[Activity Monitor](#)  
[Question Generator](#)  
[Assistants](#)  
[IP Restrictions](#)

**Select Test**  
Select Test for Assignment Links

**checking Test**  
0 questions  
points  
Created on 14/04/2025

**CR\_Quiz-02\_20-Feb-25**  
50 questions  
50 points  
Created on 13/02/2025

**AI\_Quiz-02\_20-Feb-25**  
50 questions  
50 points  
Created on 13/02/2025

**DT\_Quiz-02\_20-Feb-25**  
50 questions  
50 points  
Created on 13/02/2025

**AI\_Quiz-01\_28-Jan-25**  
This is the Quiz # 1 for the Practice of HCIA-Datacom Certification.  
50 questions  
50 points  
Created on 27/01/2025

**DT\_Quiz-01\_30-Jan-25**  
This is the Quiz # 1 for the Practice of HCIA-Datacom Certification.  
50 questions  
50 points  
Created on 27/01/2025

**Abdul Karim** Teacher Logout

**AI\_Quiz-02\_20-Feb-25**  
AI-TSCS-22

Unavailable Export to CSV Mark unmarked Questions

Results (48) Settings Statistics

**Test Analytics**  
Performance Overview

Passed Students  
28

Failed Students  
20

AI Cheating Cases  
5

Best Score  
94%

Least Score  
20%

Average Score  
57.29%

Overview Question Analysis

**Top Performers**

| Username             | Percentage | Total Attempts |
|----------------------|------------|----------------|
| UsraAhmed3953        | 94%        | 1              |
| SyedMuhammadSaad9253 | 94%        | 1              |
| AbdulKarim5685       | 94%        | 1              |
| Warda Manzoor        | 94%        | 1              |
| YusufTariq7753       | 88%        | 1              |

## Test Results

**AI\_Quiz-02\_20-Feb-25**  
AI-TSCS-22

Unavailable Export to CSV Mark unmarked Questions

Results (48) Settings Statistics

Filter

Export

| FIRST NAME           | LAST NAME | PERCENTAGE | OBTAINED MARKS | TOTAL MARKS | DURATION | DATE                | ACTIONS | DETAILS |
|----------------------|-----------|------------|----------------|-------------|----------|---------------------|---------|---------|
| Class Average        | —         | 57.29%     | 28.65          | 2400        | 00:28:00 | N/A                 |         |         |
| AbdulKarim           | AI-22025  | 34%        | 17             | 50          | 00:31:27 | 20/02/2025 11:06:32 |         | Details |
| SyedMuhammadSaad9253 | AI-22037  | 84%        | 42             | 50          | 00:31:34 | 20/02/2025 11:07:21 |         | Details |
| SajadTariq           | AI-22029  | 86%        | 43             | 50          | 00:21:33 | 20/02/2025 11:10:00 |         | Details |
| SyedMuhammadSaad9253 | AI-22046  | 26%        | 13             | 50          | 00:27:55 | 20/02/2025 11:17:16 |         | Details |
| UsraAhmed            | AI-22012  | 94%        | 47             | 50          | 00:12:53 | 20/02/2025 11:07:12 |         | Details |
| SyedMuhammadSaad9253 | AI-22043  | 72%        | 36             | 50          | 00:19:05 | 20/02/2025 11:05:13 |         | Details |
| MuhammadJavedKhan    | AI-22035  | 76%        | 38             | 50          | 00:23:02 | 20/02/2025 11:04:00 |         | Details |
| HanifaChaudhary      | AI-22007  | 80%        | 40             | 50          | 00:18:25 | 20/02/2025 11:05:08 |         | Details |
| AbdulKarim           | AI-22042  | 64%        | 32             | 50          | 00:32:38 | 20/02/2025 11:07:19 |         | Details |



## AI Proctoring and Evidences

Abdul Karim  
Teacher

Logout

Risk Level: High

**AI Proctoring Evidence Review**  
Session ID: ad0f333d-e7af-4bfe-9784-7c55e9ae584b

**Student Information**  
jaward rizvi  
ID: f430c329-167d-4eed-97e1-98181fabfc68  
Course: DT\_Quiz-01\_30-Jan-25  
Exam: June 14, 2025  
Previous Incidents: 0

**Evidence (22)** **AI Analysis**

**Review Required**  
22 potential violations detected during this exam session. Please review each incident and make a determination.

**Gaze Detection**  
Student's eyes are directed towards left  
Jun 12

**Mobile Detection**  
Mobile phone detected during test session  
Jun 12

**Tab Switching**  
Tab switch detected during test session  
Jun 12

**AI Remarks**  
Student is looking right

**Timeline Context**

|                     |         |
|---------------------|---------|
| Gaze Detection      | 0112 AM |
| Tab Switching       | 0105 AM |
| Head Pose Detection | 0112 AM |
| Mobile Detection    | 0112 AM |

**Detection Details**  
Type: Head Pose Detection  
Confidence: Not available  
Recorded At: 1:12:56 AM

### AI Analysis Summary

Generated on 6/14/2025

#### Investigative Summary

The evidence indicates potential academic dishonesty during the test session on 2025-06-11. Multiple instances of mobile phone detection (10 instances with 90% confidence), gaze deviations (4 instances), head pose anomalies (3 instances), and tab switching (5 instances with 100% confidence) were recorded. The data suggests a pattern of behavior inconsistent with a closed-book, solitary test environment.

The mobile phone detections, all with 90% confidence, raise a high level of concern and are supported by available media for review. The numerous tab switching events, although lacking media evidence, further strengthen the suspicion of unauthorized resource access. The gaze and head pose detections,

Directorate of University Advancement & Financial Assistance