

Mirox Cyber Security & Technology Pvt Ltd 4th Floor Nila Technopark 695581 Trivandrum Kerala India Ph: + 91-471- 4016888, 4000545. <u>www.miroxindia.com</u> **Mirox is Empanelled as an IT Security Auditor by CERT-In (Govt. of India)**

SECURITY AUDIT CERTIFICATE

Ref : MI-CERT/IND-037/2021 Dated : 17-09-2021

This is hereby certified that Web Application/Site URL: https://joinus-auto.iitpkd.ac.in/, Static IP: 61.0.251.139 :443 is been Security Audited & Assessed as per CERT-IN Guideline & OWASP Standard. The Site & Web Application is fit and safe for hosting under continuous monitoring and observation by Authorized Authorities. The Application/Site is fulfilled the criteria as per CERT-IN Security norms.

The Security Audit and Penetration Test was conducted by Mirox Cyber Security's certified security engineers. We identified several Vulnerabilities and provided remediation advice to **Indian Institute of Technology, Palakkad** that all vulnerabilities had been Security Tested & verified. Mirox performed a verification security test on **24th May 2021** to **10th September 2021** and confirmed that all vulnerabilities identified were either fixed & rectified or had been adequately addressed through other controls.

While no application or system can be 100% secure, all of our security findings were rectified /corrected or addressed and it is our opinion that the applications tested are reasonably well written from a security perspective and the applications and supporting systems are deployed, configured and implemented in a secure manner. Application to remain secure, however, security posture must be evaluated and improved continuously.

| S.No | Details | Details | | | |
|------|---|--|--|--|--|
| 1 | Application Name | IIT Palakkad Staff Recruitment Portal Web Application. | | | |
| 2 | Application URL name & IP | Application URL: https://joinus-auto.iitpkd.ac.in/ Application IP – 61.0.251.139 :443 | | | |
| 3 | Applications Tested URL - IP Details | Tested IP: 61.0.251.139 Port: 443 Tested URL: https://joinus-auto.iitpkd.ac.in/ | | | |
| 4 | Testing Report Date | 24 th MAY 2021 to 10 th SEPTEMBER 2021 | | | |
| 5 | Certification Validity | 6 months to 1 Year Max from the issue date of the last audit report. | | | |

Mirox - Security Audit Certificate - Confidential & Authorized Authority only **Ref:** MI-CERT/IND-037/2021 Dated: 17/09/2021 https://joinus-auto.iitpkd.ac.in/ **This is a computer-generated document. No signature is required**



| SI. No. | OWASP 2017 | | | | | |
|------------|--|------------------------|----------------------|------------------------|---------------------|----------------------|
| | Top 10 Vulnerabilities | No. of Vulnerabilities | Status | | | |
| A1 | Injection | N/A | N/A | | | |
| A2 | Broken Authentication | N/A | N/A | | | |
| A3 | Sensitive Data Exposure | 2 | 1 Fixed – High | | 1 Fixed - Medium | |
| A4 | XML External Entities (XXE) | N/A | N/A | | | |
| A5 | Broken Access Control | N/A | | | | |
| A6 | Security Misconfiguration | 7 | 2 Fixed – High | 1 Fixed _ Medium | 3 Fixed _ Low | 1 Fixed _ Info |
| Α7 | Cross-Site Scripting (XSS) | 1 | 1 Fixed – High | | | |
| A8 | Insecure Deserialization | N/A | N/A | | | |
| A9 | Using Components with Known Vulnerabilities | 1 | 1 Fixed - Medium | | | |
| A10 | Insufficient Logging & Monitoring | N/A | N/A | | | |

Disclaimer

Mirox Cyber Security & Technology conducted this Audit/ Assessment/ VAPT on the applications and systems that existed as of **10th September 2021**. Information security threats are continually changing, with new vulnerabilities discovered on a daily basis, and no application can ever be 100% secure no matter how much Security Auditing, Assessment & Testing is conducted.

This report & certificate cannot and does not protect against personal or production loss as the result of use of the applications or systems described. Mirox offers no warranties, representations or legal certifications concerning the applications or systems it tests. All software includes defects: nothing in this document is intended to represent or warrant that security testing was complete and without error, nor does this document represent or warrant that the application tested is suitable to task, free of other defects than reported, fully compliant with any industry standards, or fully compatible with any operating system, hardware, or other application.



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Services Performed For:

Indian Institute of Technology Palakkad Ahalia Integrated Campus, Kozhippara P.O, Palakkad Kerala , Pin: 678557







ValueMentor Consulting LLP

Chandanam, Infopark Thrissur, Koratty, Kerala, India - 680 308

Cert No: VM/IND/2018/116

Date of Issue: 16-03-2018

Security Audit Certificate

ValueMentor Security Assessment Testing Program has tested and certified the following application.

| Application Name | : | Website of IIT-Palakkad |
|-----------------------|---|--|
| Production URL | : | https://iitpkd.ac.in |
| URL Tested | : | https://iitpkd.ac.in |
| Testing Date | : | 12 th Febrauary, 2018 to 15 th March, 2018 |
| Auditing Performed By | : | ValueMentor Consulting LLP |

Observation (in Details): The page hosted on production server was tested against OWASP Top 10 and other known vulnerabilities.

Conclusion: Application was found safe to host for its production usage.

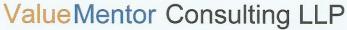
Recommendations:

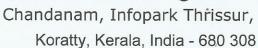
- 1. Web server and OS level hardening need to be in place for the production server.
- 2. Site may be hosted with the privileges of read only permission for the general public.
- 3. Write permission should be granted only on the folder where the files are to be uploaded.
- 4. It is recommended to deploy the site over TLS with recommended practices.





Certificate Validity: The certificate is valid for a period of one year from the issue date or until a new version of the application is released, whichever date is earlier.





Appendix: Certification Status

The application was tested against the CERT-IN recommended certification standards and the table below shows the overall status of the application against the certification criteria. The different status that can be assigned to each criteria are "Meets Criteria", "Fails Criteria" or "Not Applicable" based on the vulnerabilities discovered in the application.

| | Security Requirement Criteria | | | | | |
|----|---|----------------|--|--|--|--|
| # | Criteria Label | Status | | | | |
| 1 | Injection | Meets Criteria | | | | |
| 2 | Broken Authentication | Meets Criteria | | | | |
| 3 | Sensitive Data Exposure | Meets Criteria | | | | |
| 4 | XML External Entities (XXE) | Meets Criteria | | | | |
| 5 | Broken Access Control | Meets Criteria | | | | |
| 6 | Security Misconfiguration * | Meets Criteria | | | | |
| 7 | Cross-Site Scripting (XSS) | Meets Criteria | | | | |
| 8 | Insecure Deserialization | Meets Criteria | | | | |
| 9 | Using Components with Known Vulnerabilities | Meets Criteria | | | | |
| 10 | Insufficient Logging&Monitoring | Meets Criteria | | | | |

Disclaimer

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ValueMentor Certificate does not certify that the concerned Client Product is completely secure or free from all security vulnerabilities/holes and that there will not be any security breaches with respect to any such certified Client Product. The ValueMentor Certificate merely evidences that such Client Product has passed various universally recognized security checks, which are applied by ValueMentor during the program.