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(54) Title of the invention : RUNTIME APPLICATION SELF-PROTECTION PLATFORM

<p>(51) International classification :G06F0021570000, G06F0021550000, G06F0021560000, G06F0021510000, G06F0021520000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Chitkara University</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p><b>2)Bluest Mettle Solutions Private Limited</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)MISHRA, Rahul</b> Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----</p> <p><b>2)SINGH, Dhiraj</b> Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----</p> <p><b>3)MANTRI, Archana</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Patiala -----</p>
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(57) Abstract :

The system in the present disclosure is a cutting-edge security technology designed to protect applications (108) during runtime. By integrating directly into the application (108) runtime environment, the system empowers applications (108) to defend themselves against a wide range of runtime threats and vulnerabilities in real-time. This abstract outline the key features and benefits of the system, which enhances application (108) security and ensures data integrity in the dynamic landscape of modern computing. The system operates as an intelligent shield within the application (108), continually monitoring its behavior, data flow, and execution. It dynamically analyses application (108) interactions, identifying potential security threats such as SQL injection, code injection, cross-site scripting (XSS), and other application 108-layer vulnerabilities. Once a threat is detected, the system responds with immediate action, mitigating risks in real-time. It can block malicious requests, terminate suspicious sessions, or modify the application's (108) behavior to thwart exploits. Contextual awareness allows the system to minimize false positives, ensuring legitimate user (104) actions are not unnecessarily restricted. The platform (102) integrates seamlessly with diverse application (108) architectures and is easily deployable with minimal code changes. It provides centralized security policy management, enabling administrators to define and enforce application-specific security measures.

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