**SYSTEM ANALYSIS**

**EXISTING SYSTEM:**

In the existing system Securing web applications is well known to be hard. There are several reasons for this, ranging from the heterogeneity and complexity of the web platform to the adoption of undisciplined scripting languages offering dubious security guarantees and not amenable for static analysis. Though this limited perspective might miss important insights, it has the key advantage of offering a language-agnostic vulnerability detection approach, which abstracts from the complexity of scripting languages and offers a uniform interface to the widest possible range of web applications.

**DISADVANTAGES OF EXISTING SYSTEM:**

* In white-box techniques which require access to the web application source code.
* Black-box methods operate at the level of HTTP traffic, i.e., HTTP requests and responses.
* **Algorithm**: Burp and ZAP tools

**PROPOSED SYSTEM:**

Cross-Site Request Forgery (CSRF) is a well-known web attack that forces a user into submitting unwanted, attacker controlled HTTP requests towards a vulnerable web application in which she is currently authenticated. The key concept of CSRF is that the malicious requests are routed to the web application through the user’s browser, hence they might be indistinguishable from intended benign requests which were actually authorized by the user. The CSRF does not require the attacker to intercept or modify user’s requests and responses: it suffices that the victim visits the attacker’s website, from which the attack is launched. Thus, CSRF vulnerabilities are exploitable by any malicious website on the Web.

**ADVANTAGES OF PROPOSED SYSTEM:**

* The value of standard HTTP request headers such as Referrer and Origin, indicating the page originating the request.
* The presence of custom HTTP request headers like X-Requested-With, which cannot be set from a cross-site position.
* The presence of unpredictable anti-CSRF tokens, set by the server into sensitive forms.
* **Algorithm**: RandomForestClassifier