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INFORMATION SECURITY &

CYBER LAWS

PAPER CODE =

Ques I study the different types of vulnerability for hacking a website or web application.

=> 1. SQL injections

SEM = 6th sem

SQL injection is a type of web application

Security vulnessability in which an attacker

attempts to use application code to access or

corrupt database content. If successful, this

allows the attacker to create, read, update,

alter, or delete data stored in the back-end

database. SQL injection is one of the most

prevalent types of web application vulnessabilities

2. CROSS SITE SCRIPTING (XSS)

E) Choss-site scripting tangets an application's usually a client-side usually a client-side script such as Javascript, into a web applications output. The concept of XSS is no manipulate client-side scripts of a web application to execute in the monner desired by therms.

Signature

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the attacker. XSS allows attackers to execute swipts in the victim's 690 wscs which can hijack uses seglissed deface websites or redirect the uses to malicious sites.

3. BROKEN AUTHENTICATION & SESSION MANAGEMENT

Broken authentication & session management encompass Several security issues, all of them having to do with maintaining the identity of a user. If authentication credentials and session identifies are not protected at all times, an attaches can hijack an active session and assume the identity of a user.

4. INSECURE DIRECT OBJECT REFERENCES

Discourse direct object references is when a web application exposes a reference to an internal implementation objects. Internal implementation objects include files, doctabase records, directories and doctabase keys. when an application exposes a reference to one of these objects in a URL, hackers can manipulate it to gain access to a user's personal data.

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5- SECURITY MISCONFIGURATION

Security misconfiguration encompasses several tops of vulnessatilities all centescel on a lack of maintenance on a lack of maintenance on a lack of attention to the web application configuration. A secuse configuration must be defined and deployed for the application frameworks, application server, web server, database server and platform. Security misconfiguration gives hackers access to private data or feature and can result in a complete system comprinise.

6. CROSS- SITE REQUEST FORGERY (CSRF)

E) CSPF is a modicions attack where a wer is tricked into performing an action he or she didn't intend to do. A third-party website will sund a request to a web orplication that a user is already authenticated against (eg. their bank). The advances can then access functionality via the victims already authenticated browser.

Targets including areb applications like social media, in browser email clients, online banking, web interfaces & network devices.

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7. INSUFFICIENT TRANSPORT LAYER PROTECTION

Deals with information exchange between the user (client) and the Server (application). Applications frequently transmit scalinive information like authentication details, credit cord information, and session tokens over a hetroopk.

Vulnerable objects:

- · Data sent over the network.
- 8. Unvalidated Redirects and torwards.
- The web application was few methods to rediscut and forwards words to other lages from an intended prespose. It there is no proper validation while medis ecting to other pages, attackers can make use of this and can rediscut victims to phishing on malwage sites, on use forwards to access unauthorized pages.

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