**Experiment no. 6**

**Aim:** Student should be able to installBurp Suite is a web application security testing tool used to identify potential vulnerabilities in web applications.

**Learning Objective:** Student should be able to understand and implement the Burp Suite

**Tools:** Burp Suite and any browser Firefox, chrome, edge etc.

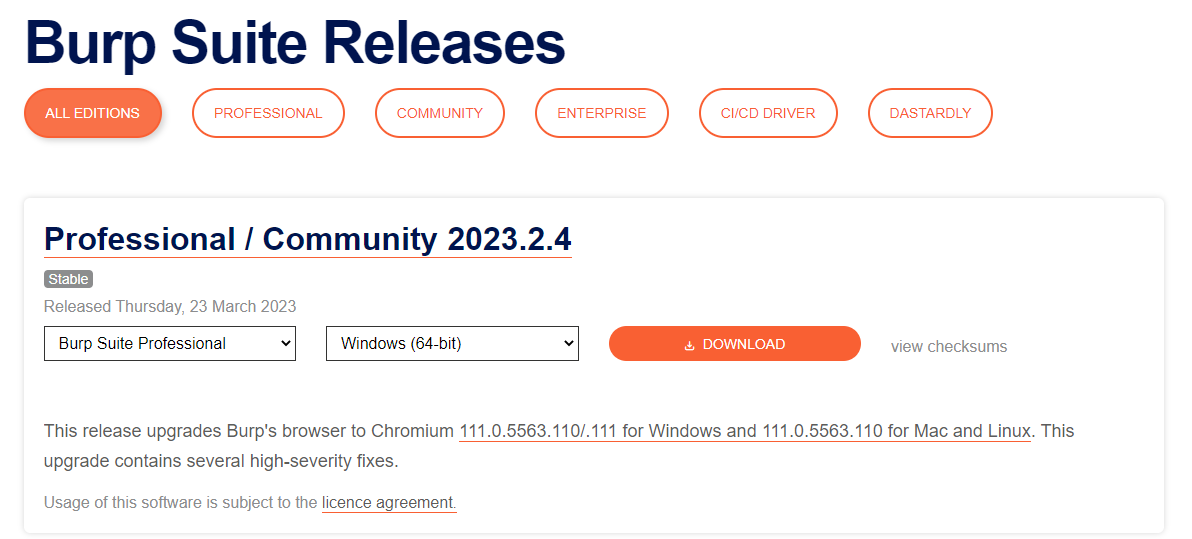
### Theory: Burp Suite is a powerful tool for web application security testing and analysis. It is designed to help security professionals identify and exploit vulnerabilities in web applications, and it includes a range of features and tools that can be used to perform a variety of testing and analysis tasks.

### One of the key features of Burp Suite is its ability to intercept and modify HTTP requests and responses. This allows security professionals to inspect the traffic between a client and a server, and to manipulate the data being sent and received. By intercepting and modifying requests and responses, security professionals can identify vulnerabilities and test the security of web applications in a controlled environment.

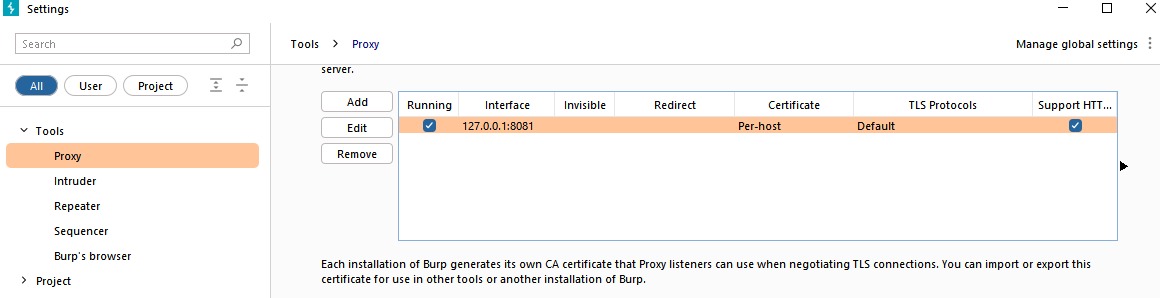
Another important feature of Burp Suite is its scanning capabilities. Burp Suite includes a range of scanning tools that can be used to automatically identify and exploit vulnerabilities in web applications. These tools include a vulnerability scanner, an active scanner, and a passive scanner, among others.

In addition to its interception and scanning capabilities, Burp Suite includes a range of other features that can be used to test and analyze web applications. For example, it includes tools for manipulating cookies, inspecting and modifying HTML and JavaScript code, and fuzzing input fields to identify vulnerabilities.

**Installation and setup of burp suite:** Download Burp suite from below site https://portswigger.net/burp/releases  
1) Install burp suite community version.



2) Go to Proxy setting in burp suite  
Proxy - > Proxy Setting - > Edit - > Blind to port -> Write port no = 8081  
(Here we are using 127.0.0.1:8081)

  
3) Go to mozilla browser  
Go to setting -> Network setting  -> Go to Manual Proxy Setting -> HTTP Proxy : 127.0.0.1 -> Port: 8081

Graphical user interface, text, application, email

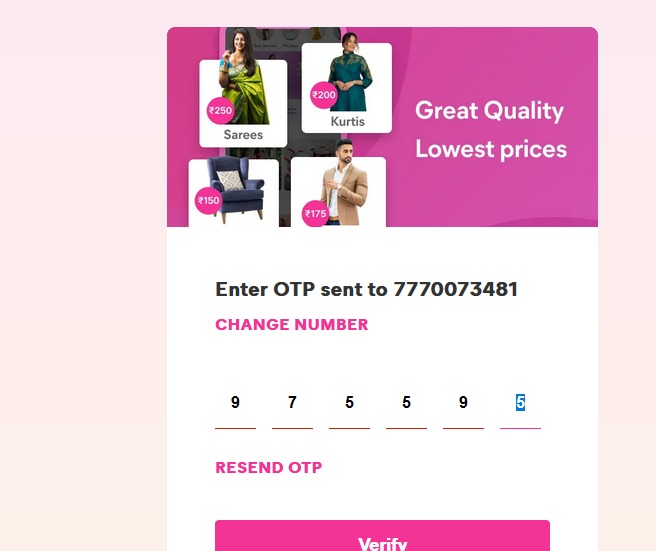
Description automatically generated  
Check the box- Also use the proxy for HTTPS  
4) Check for browser is setup for Burp suite  
Type in browser <http://burp>

  
  
Click on CA Certificate and Download the certificate  
  
5) Go to Mozilla Browser - > Settings - > View Certificate - > Authorities Tab - > Import - > Import cacert Certificate - > ok



**Get OTP from application:**

1. **Enter OTP in Meeshoa and click on verify:**



**Check burp suite OTP get save in it:**

POST /api/v1/user/login HTTP/2

Host: www.meesho.com

Cookie: VIRTUAL\_LIST=0.8849621424037861; RETURNS\_UNBUNDLING=0.8225687600394176; \_cf\_bm=Zqo8sMj9UxZvo2Y4O3SVK78zy4qvk0TpkpESh.8\_SZo-1679548393-0-AZghO05L7J9tvM1n5Wc3ty7490tbHYfn8J29o2p/BbAIQPtpNEf09xeLfKkHExGaQ7+BC7nR1TuSyWpjAhSf9fU=; \_\_cfruid=f5821ec55fcb21f09145be72f00060a440b4df20-1679548393; CSO\_ENABLE=0.8980791144320274; \_\_connect.sid=s%3ARqt9N2LylPp4Z4k2\_zcHVCS9oRebY9Eg.XJnUZ9B9XZwB7FtHPxjGdi8KnJvh010%2Bpo2avbScd1s; WZRK\_S\_48K-65W-Z75Z=%7B%22p%22%3A5%7D; \_gcl\_au=1.1.1895185420.1679548399; \_fbp=fb.1.1679548399848.238828269; \_ga\_ZB97HR591S=GS1.1.1679548400.1.1.1679548522.49.0.0; \_ga=GA1.1.77368838.1679548400; \_\_logged\_in\_user\_id=153691196; is\_logged\_in=1; mp\_60483c180bee99d71ee5c084d7bb9d20\_mixpanel=%7B%22distinct\_id%22%3A%20%221870ce377a9755-0741e6b99740a2-d545429-100200-1870ce377aa96c%22%2C%22%24device\_id%22%3A%20%221870ce377a9755-0741e6b99740a2-d545429-100200-1870ce377aa96c%22%2C%22last%20event%20time%22%3A%201679548542336%2C%22%24search\_engine%22%3A%20%22google%22%2C%22%24initial\_referrer%22%3A%20%22https%3A%2F%2Fwww.google.com%2F%22%2C%22%24initial\_referring\_domain%22%3A%20%22www.google.com%22%2C%22Is%20Anonymous%22%3A%20%22False%22%2C%22Session%20ID%22%3A%20%2211658844-55bc-45c9-b1a1-af02d4ae%22%7D

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/111.0

Accept: application/json, text/plain, /

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/json

Meesho-Iso-Country-Code: IN

Content-Length: 154

Origin: https://www.meesho.com

Referer: https://www.meesho.com/auth/verify?redirect=https%3A%2F%2Fwww.meesho.com%2F&source=profile&entry=header&screen=HP

Sec-Fetch-Dest: empty

Sec-Fetch-Mode: cors

Sec-Fetch-Site: same-origin

Te: trailers

{"request\_id":"b3M.0WbTgkFi28","instance\_id":"eddc6e8a-4579-41b4-9e0e-97199b25","phone\_number":"7770073481","otp":"**975595**","login\_type":"meesho\_sms\_auth"}

**Learning Outcomes:** The student should have the ability to install and use burp suite.

LO1: To understand the burp suite.

LO2: To use Burp suite with Firefox.

**Course Outcomes:** Upon completion of the course students will be able to understand & install and use burp suite.

**Conclusion:**

Burp Suite is a robust web application security testing and analysis tool that offers a variety of features for identifying and exploiting vulnerabilities.

**For Faculty Use**

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| **Correction Parameters** | **Formative Assessment [40%]** | **Timely completion of Practical**  **[40%]** | **Attendance / Learning Attitude [20%]** |  |
|  |  |  |  |
| **Marks Obtained** |  |  |  |