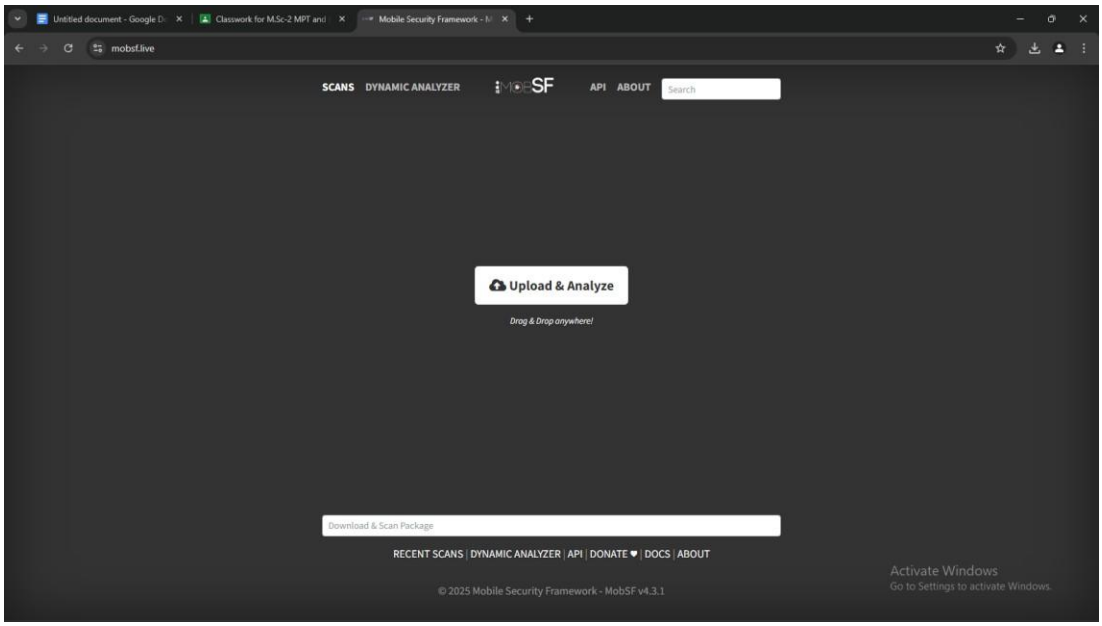
PRACTICAL 7

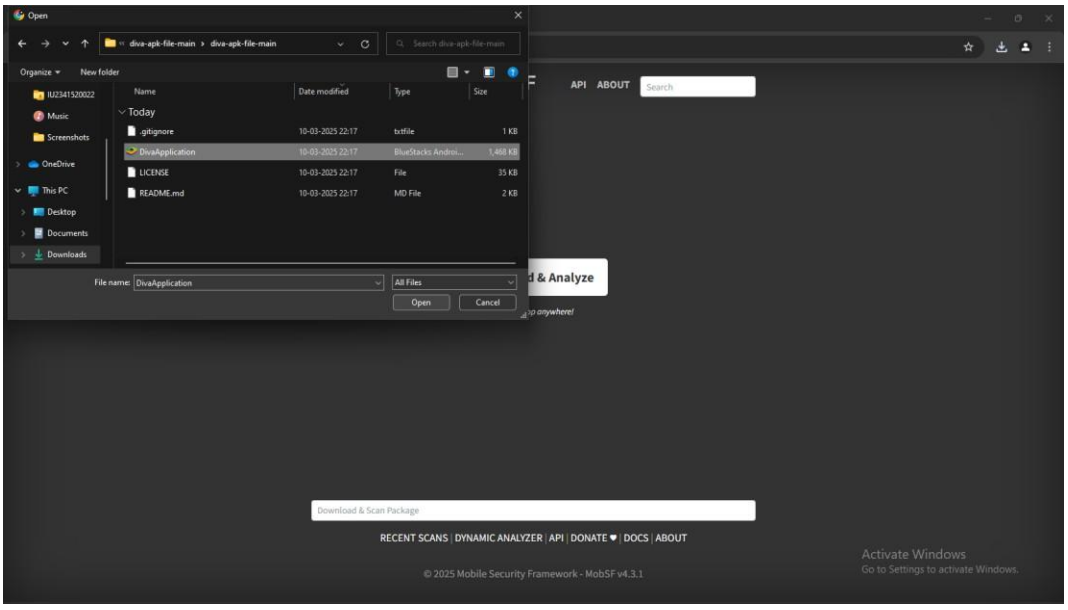
Aim: Install Mobsf and do Static/Dynamic Analysis

Mobsf: Mobsf (Mobile Security Framework) is an open-source automated mobile application security testing framework designed to perform static and dynamic analysis of mobile applications. It is primarily used for identifying security vulnerabilities in Android and iOS applications.

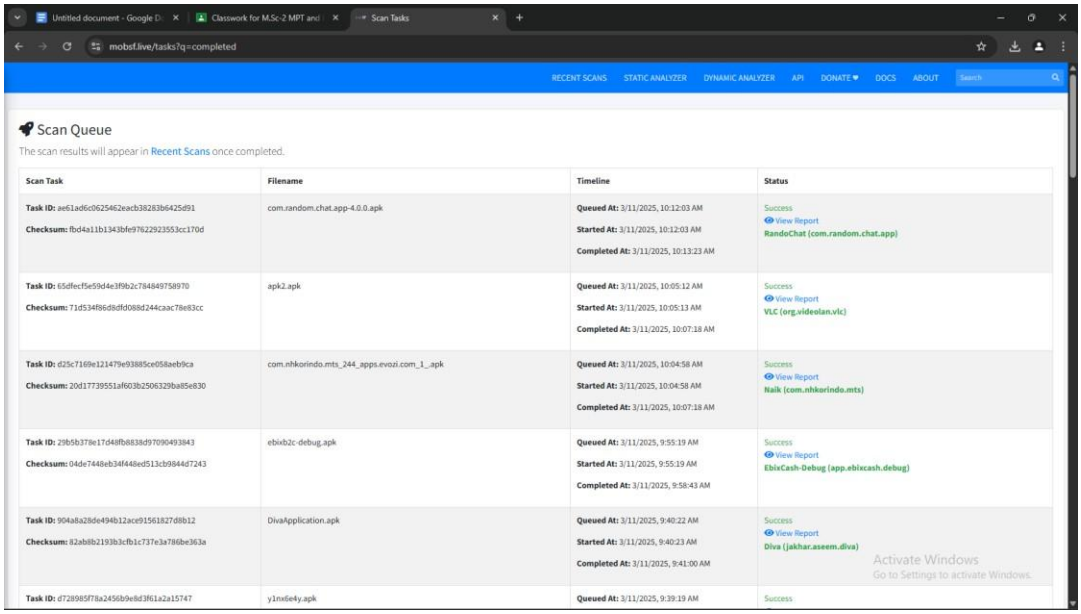
Step 1: Open Mobsf. Live Web Application and start static analysis for Android Analysis.



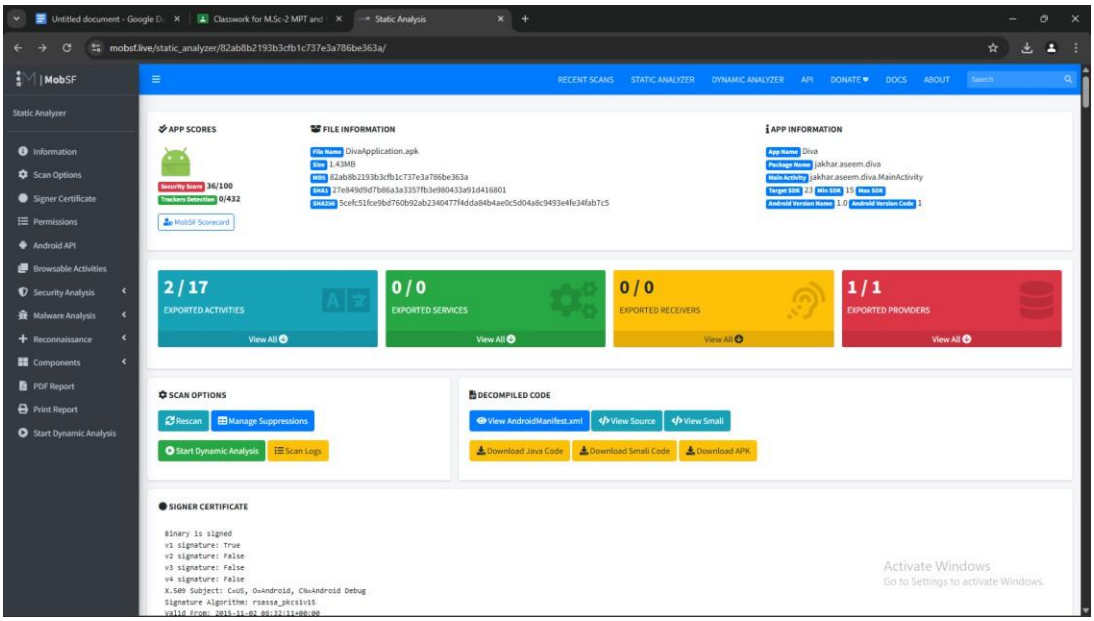
Step 2: Upload A base Andriod Application and analyze that the App is malicious or Not ?



Step 3: Now the Mobsf.live will give the Scan report of the android application.



Step 4: Now mobsf.live will give you the report of the application.

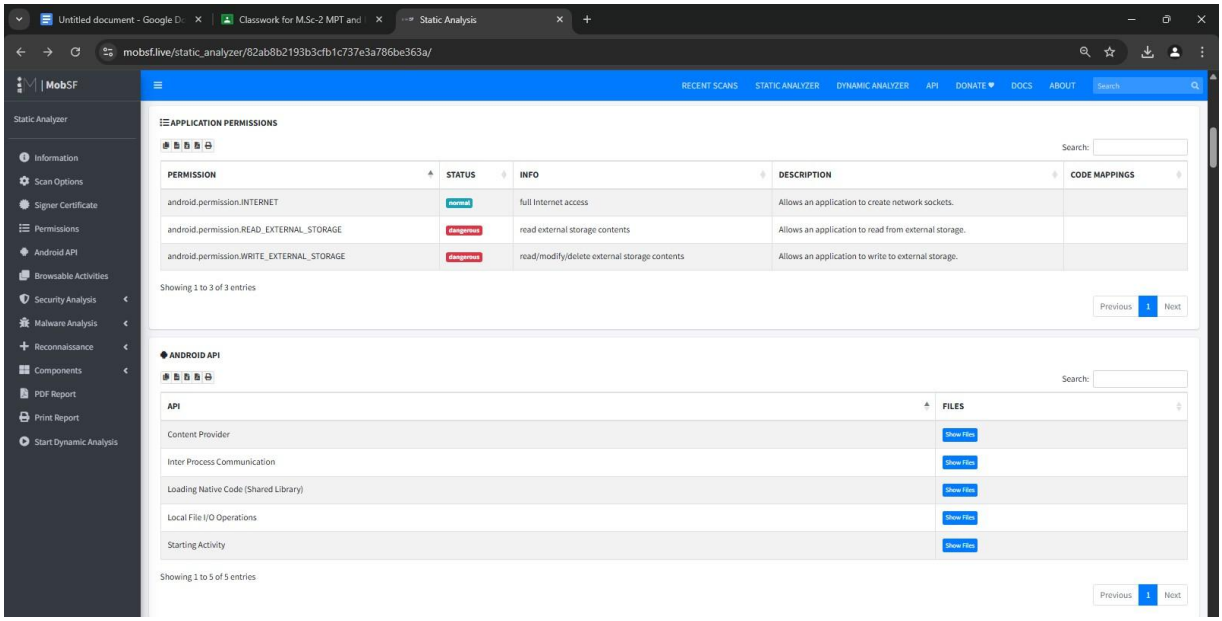


Step 5: Mobsf. Live Web application will provide you types of vulnerabilities in the application.

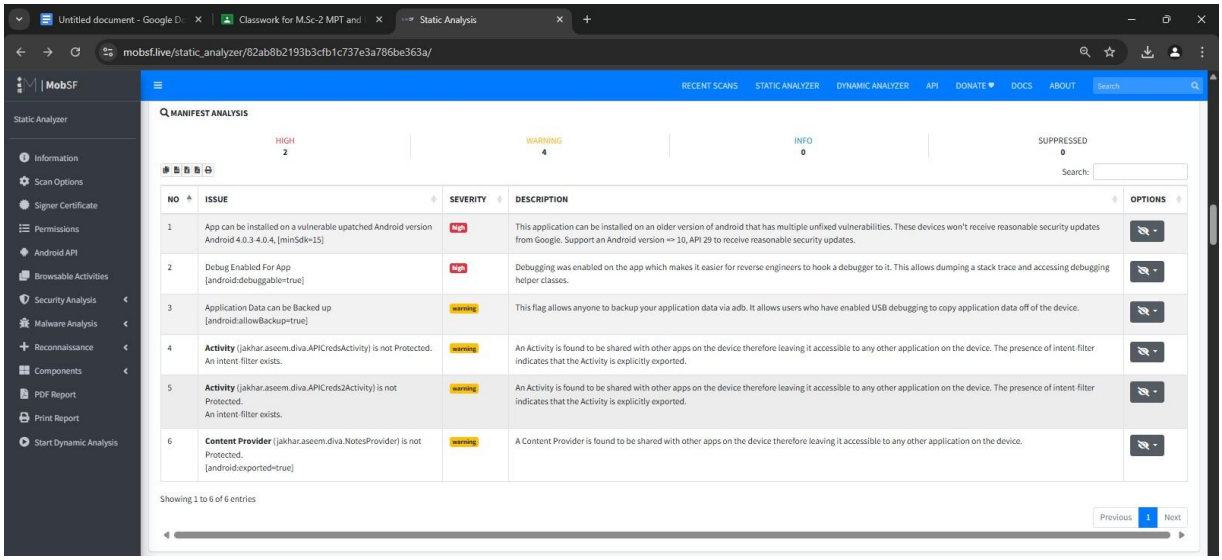
SIGNER CERTIFICATE

```
Binary is signed
v1 signature: True
v2 signature: False
v3 signature: False
v4 signature: False
X.509 Subject: C=US, O=Android, CN=Android Debug
Signature Algorithm: rsassa_pkcs1v15
Valid From: 2015-11-02 08:32:11+00:00
Valid To: 2045-10-25 08:32:11+00:00
Issuer: C=US, O=Android, CN=Android Debug
Serial Number: 0x218330df
Hash Algorithm: sha256
md5: d620162ac34ee974d7fd3a1862e7e4df
sha1: ae4ead5aeaba4e9e4fc928e7c7f7fd459f008031
sha256: 35d7f7ad35dfb826b70fa4b73187ed478540e32c8b8c5653b86568029fcd5040
sha512: e936169585893a7a248e393ddb296b2101432de5b07c3d7e2bdc8070dc0b58277b46e443eff3730b4f5a25b61f78c9078f54cc325cb86c17160b5bae13148d1e
Found 1 unique certificates
```

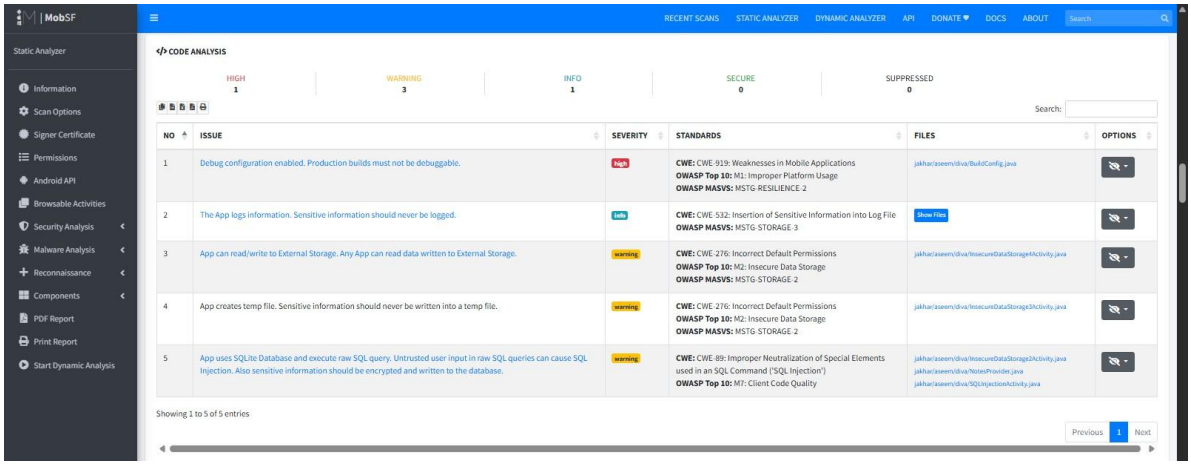
Step 6: The Permission of Application and Android API



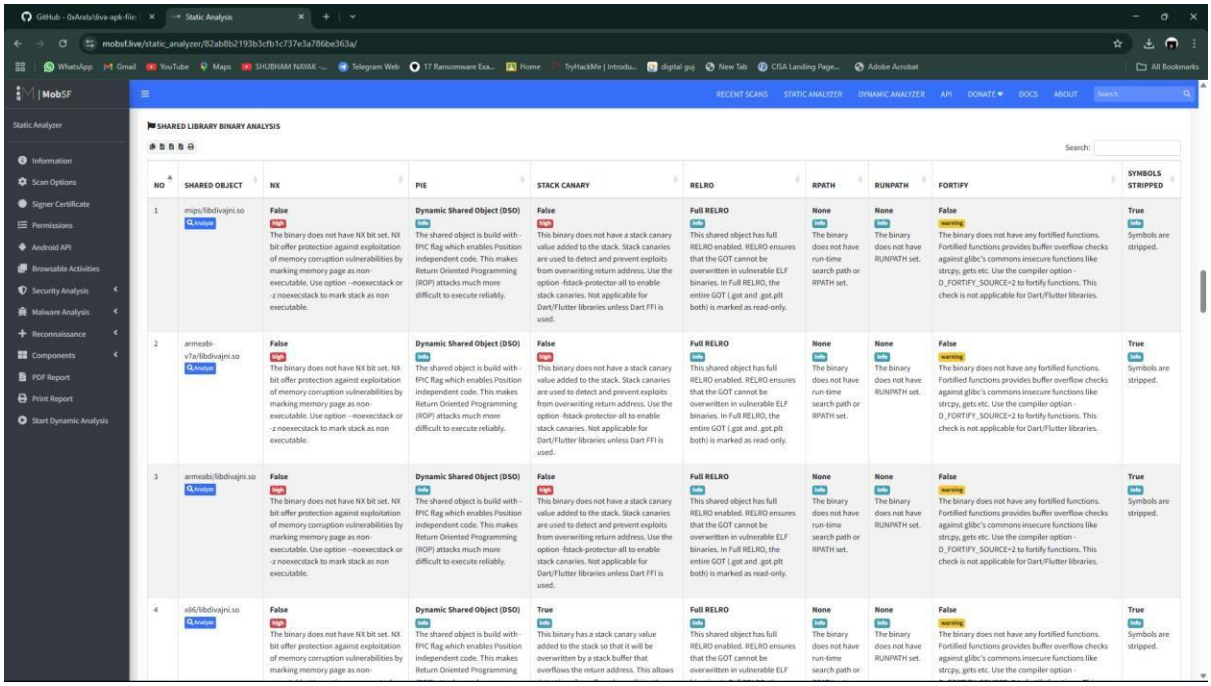
Step 7: The manifest analysis of the application



Step 8: The Application code Analysis:



Step 9: Shared library Binary Analysis



Conclusion:

Once MobSF is running, upload your APK or IPA file for static analysis. After the analysis, review the report for key findings related to permissions, code issues, and security risks. The conclusion will depend on the specific vulnerabilities and security issues identified in the report.