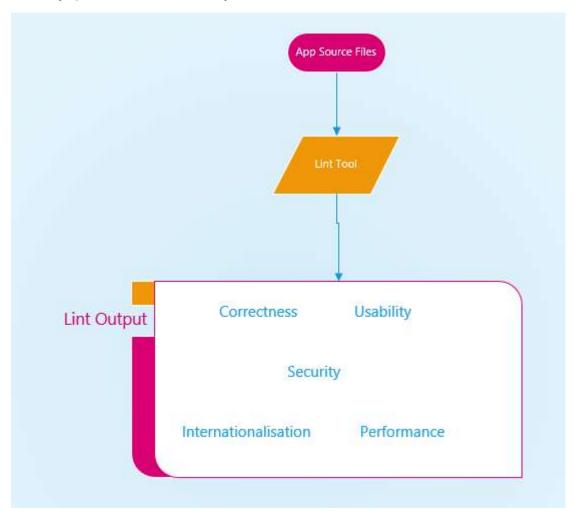
Code improvement with lint checks.

In addition to ensuring the application meets functional requirements by building tests, it was essential to ensure that the code has no structural problems by running it through lints. Lints were used for identifying and correcting issues with the structural quality of the code. Critical improvements were made for correctness, security, performance, usability, and internationalisation.



1. Main (main.py)

```
Check results
    E265:1:1:block comment should start with '#'
    W291:1:17:trailing whitespace
    E265:2:1:block comment should start with '#'
    W291:3:13:trailing whitespace
    W293:7:1:blank line contains whitespace
    E111:8:3:indentation is not a multiple of four
10
    E111:9:3:indentation is not a multiple of four
11
    W291:9:57:trailing whitespace
12
    E111:10:3:indentation is not a multiple of four
13
    W293:11:1:blank line contains whitespace
14
    E111:13:3:indentation is not a multiple of four
15
    W293:14:1:blank line contains whitespace
16
    E203:17:40:whitespace before ':'
17
    E111:18:3:indentation is not a multiple of four
18
    E501:18:80:line too long (103 > 79 characters)
19
    E111:19:3:indentation is not a multiple of four
20
    W291:19:48:trailing whitespace
21
    E111:20:3:indentation is not a multiple of four
22
    E203:20:24:whitespace before ':'
23
    E203:21:8:whitespace before ':'
24
    E111:22:7:indentation is not a multiple of four
25
    E111:24:7:indentation is not a multiple of four
26
    E501:24:80:line too Long (89 > 79 characters)
27
    E203:25:11:whitespace before ':'
28
    E111:26:7:indentation is not a multiple of four
29
    W293:27:1:blank line contains whitespace
30
    E111:28:3:indentation is not a multiple of four
31
    E203:28:26:whitespace before ':'
32
    E111:29:7:indentation is not a multiple of four
33
    E203:29:10:whitespace before ':'
    W293:31:1:blank line contains whitespace
35
    E111:32:11:indentation is not a multiple of four
36
    W293:33:1:blank line contains whitespace
    W293:35:1:blank line contains whitespace
38
    E111:36:7:indentation is not a multiple of four
39
    E203:36:13:whitespace before ':'
40
    W293:38:1:blank line contains whitespace
41
    W391:41:1:blank line at end of file
42
```

```
#import register
#import top_packet_capture
import login

def print_hi(name):

print("*** SSD Group 4 Internet Forensics Tools ****)
print("*** SSD Group 4 Internet Forensics Tools ****)

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```

2. Create Database(create_database.py)

3. Create Table(create_tables.py)

```
Check results
     E265:11:1:block comment should start with '# '
     E501:12:80:line too Long (198 > 79 characters)
     E265:13:1:block comment should start with '#'
    E501:13:80:line too Long (197 > 79 characters)
    W291:13:198:trailing whitespace
    E501:14:80:line too Long (177 > 79 characters)
    W291:14:178:trailing whitespace
11
    E265:16:1:block comment should start with '# '
12
    E111:20:3:indentation is not a multiple of four
13
    E111:24:3:indentation is not a multiple of four
    E265:26:1:block comment should start with '#'
15
    E501:27:80:line too long (91 > 79 characters)
    E501:28:80:line too long (96 > 79 characters)
    E501:29:80:line too Long (103 > 79 characters)
    E111:33:3:indentation is not a multiple of four
    E265:36:1:block comment should start with '#'
    E501:37:80:line too Long (141 > 79 characters)
    E501:38:80:line too Long (125 > 79 characters)
    E265:41:1:block comment should start with '#'
     E111:45:3:indentation is not a multiple of four
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4. Register(register.py)

```
Check results
    E211:1:21:whitespace before '('
    E203:1:24:whitespace before ':'
    E111:2:2:indentation is not a multiple of four
    E262:2:19:inline comment should start with '#'
    E111:3:2:indentation is not a multiple of four
    E262:3:19:inline comment should start with '#'
    E501:3:80:line too Long (97 > 79 characters)
    E111:4:2:indentation is not a multiple of four
11
12
    W291:4:24:trailing whitespace
    E265:5:1:block comment should start with '#'
    E501:5:80:line too Long (88 > 79 characters)
    E111:6:2:indentation is not a multiple of four
    W291:6:33:trailing whitespace
    E265:7:4:block comment should start with '#'
    E111:14:2:indentation is not a multiple of four
    E262:14:15:inline comment should start with '#'
    E111:15:3:indentation is not a multiple of four
    E111:16:3:indentation is not a multiple of four
    E111:17:3:indentation is not a multiple of four
    E262:17:53:inline comment should start with '#'
    E501:17:80:line too Long (101 > 79 characters)
    E111:18:3:indentation is not a multiple of four
    E111:19:3:indentation is not a multiple of four
    E111:20:3:indentation is not a multiple of four
    E111:22:3:indentation is not a multiple of four
    E111:23:3:indentation is not a multiple of four
    E111:24:3:indentation is not a multiple of four
    E262:24:38:inline comment should start with '#'
    E501:24:80:line too Long (136 > 79 characters)
    E111:26:3:indentation is not a multiple of four
    E261:26:27:at least two spaces before inline comment
    E262:26:28:inline comment should start with '#'
    W293:27:1:blank line contains whitespace
    E111:28:2:indentation is not a multiple of four
    E261:29:63:at least two spaces before inline comment
    E262:29:64:inline comment should start with '#'
    E501:29:80:line too Long (100 > 79 characters)
    E202:30:33:whitespace before ')'
42
    E501:30:80:line too long (207 > 79 characters)
43
    E114:31:7:indentation is not a multiple of four (comment)
    E265:31:7:block comment should start with '#'
    E111:32:7:indentation is not a multiple of four
    E501:33:80:line too long (153 > 79 characters)
    E262:33:107:inline comment should start with '#
    E111:35:2:indentation is not a multiple of four
    E262:35:18:inline comment should start with '#
    E111:36:3:indentation is not a multiple of four
    E111:37:3:indentation is not a multiple of four
    E262:37:20:inline comment should start with '#'
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E111:39:3:indentation is not a multiple of four
    W293:40:1:blank line contains whitespace
    W293:41:1:blank line contains whitespace
    E111:43:2:indentation is not a multiple of four
    E303:43:2:too many blank lines (3)
    E111:44:3:indentation is not a multiple of four
    E111:45:3:indentation is not a multiple of four
    E231:45:24:missing whitespace after ',
    E265:46:5:block comment should start with '#'
    E111:48:3:indentation is not a multiple of four
    E111:50:2:indentation is not a multiple of four
    E111:51:3:indentation is not a multiple of four
    E111:52:3:indentation is not a multiple of four
    E111:53:3:indentation is not a multiple of four
    E111:54:3:indentation is not a multiple of four
    W291:54:59:trailing whitespace
    E115:55:1:expected an indented block (comment)
    E265:55:1:block comment should start with '#
71
    E111:57:3:indentation is not a multiple of four
    E111:58:2:indentation is not a multiple of four
    E111:59:2:indentation is not a multiple of four
    E501:59:80:line too long (116 > 79 characters)
    E111:60:2:indentation is not a multiple of four
    E111:61:2:indentation is not a multiple of four
    E262:61:50:inline comment should start with '#'
    E501:61:80:line too Long (106 > 79 characters)
79
    E111:62:2:indentation is not a multiple of four
    E111:63:2:indentation is not a multiple of four
    E262:63:49:inline comment should start with '#'
    E302:65:1:expected 2 blank lines, found 1
    E211:65:18:whitespace before '('
    E203:65:21:whitespace before ':'
    E111:66:2:indentation is not a multiple of four
    E262:66:19:inline comment should start with '#'
    E111:67:2:indentation is not a multiple of four
    E262:67:19:inline comment should start with '#'
    E501:67:80:line too long (97 > 79 characters)
    W291:67:98:trailing whitespace
    E114:68:3:indentation is not a multiple of four (comment)
    E116:68:3:unexpected indentation (comment)
    E265:68:3:block comment should start with '#'
    E501:68:80:line too long (90 > 79 characters)
    E111:69:2:indentation is not a multiple of four
    W291:69:24:trailing whitespace
    E111:70:2:indentation is not a multiple of four
    E265:71:4:block comment should start with '#'
    W293:77:1:blank line contains whitespace
    E111:78:2:indentation is not a multiple of four
    E262:78:19:inline comment should start with '#
    E111:79:3:indentation is not a multiple of four
    E111:80:3:indentation is not a multiple of four
    E111:81:3:indentation is not a multiple of four
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E111:82:3:indentation is not a multiple of four
      E111:83:3:indentation is not a multiple of four
      E111:84:3:indentation is not a multiple of four
     E111:86:3:indentation is not a multiple of four
      E111:87:3:indentation is not a multiple of four
110
      E111:88:3:indentation is not a multiple of four
111
     E501:88:80:line too long (106 > 79 characters)
112
     E111:90:3:indentation is not a multiple of four
113
     W293:91:1:blank line contains whitespace
114
     E111:92:2:indentation is not a multiple of four
115
     E115:93:1:expected an indented block (comment)
116
     E265:93:1:block comment should start with '#'
117
     E501:93:80:line too Long (138 > 79 characters)
     E202:95:33:whitespace before ')'
118
     E501:95:80:line too Long (207 > 79 characters)
119
120
     E111:96:7:indentation is not a multiple of four
121
     E501:97:80:line too Long (104 > 79 characters)
122
     W293:98:1:blank line contains whitespace
123
     E111:99:2:indentation is not a multiple of four
124
     E111:102:7:indentation is not a multiple of four
     W293:104:1:blank line contains whitespace
126
     E111:105:2:indentation is not a multiple of four
127
     E115:106:1:expected an indented block (comment)
      E265:106:1:block comment should start with '#'
128
129
     W291:106:65:trailing whitespace
130
     E111:107:3:indentation is not a multiple of four
     E111:108:3:indentation is not a multiple of four
132
     E231:108:16:missing whitespace after ',
     E111:109:3:indentation is not a multiple of four
134
     E111:111:3:indentation is not a multiple of four
135
     E111:113:2:indentation is not a multiple of four
136
     E231:115:26:missing whitespace after ',
137
     E115:116:1:expected an indented block (comment)
138
     E265:116:1:block comment should start with '#'
139
      E111:117:7:indentation is not a multiple of four
     E111:120:2:indentation is not a multiple of four
     W293:121:1:blank line contains whitespace
142
     E111:122:3:indentation is not a multiple of four
      E111:123:3:indentation is not a multiple of four
     E111:124:3:indentation is not a multiple of four
     E111:125:3:indentation is not a multiple of four
     E115:126:1:expected an indented block (comment)
     E265:126:1:block comment should start with '#
     E111:128:3:indentation is not a multiple of four
     E111:129:2:indentation is not a multiple of four
150
     E111:130:2:indentation is not a multiple of four
151
      E501:130:80:line too Long (100 > 79 characters)
152
     E111:131:2:indentation is not a multiple of four
153
     E111:132:2:indentation is not a multiple of four
154
     E262:132:48:inline comment should start with '#'
155
     E501:132:80:line too Long (91 > 79 characters)
     E265:133:1:block comment should start with '#'
156
```

```
E501:133:80:line too long (117 > 79 characters)
158
      E111:134:2:indentation is not a multiple of four
      E111:135:2:indentation is not a multiple of four
      E111:138:7:indentation is not a multiple of four
     W293:140:1:blank line contains whitespace
     E111:141:2:indentation is not a multiple of four
     E111:144:7:indentation is not a multiple of four
     W293:146:1:blank line contains whitespace
     E111:147:2:indentation is not a multiple of four
     E111:150:7:indentation is not a multiple of four
     E111:152:2:indentation is not a multiple of four
     E111:153:2:indentation is not a multiple of four
     E501:153:80:line too long (107 > 79 characters)
170
     E111:154:2:indentation is not a multiple of four
171
     E111:155:2:indentation is not a multiple of four
     E262:155:40:inline comment should start with '#'
172
     E501:155:80:line too long (86 > 79 characters)
173
174
     E111:156:2:indentation is not a multiple of four
175
     E111:157:2:indentation is not a multiple of four
     E262:157:17:inline comment should start with '#'
176
     W293:161:1:blank line contains whitespace
177
178
     W391:161:1:blank line at end of file
```

```
Order

Code

Code
```

```
while True: # Raw while loop to allow user to add the 16.

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will - [user_16]

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```
while from:

weep flowe - faput("\infater your Phone: ")

prometist = (st((surr_phone))

prometist = (st((surr_phone))

ff ((st = (art_ourr_phone)) and (s = [0^*, 2^*, 0^*]));

ff ((st = (art_ourr_phone)) and (s = [0^*, 2^*, 0^*]));

# from number must be 11 numbers and starts with 620

prometic your number is wrong")

# squareor = synth_curse()

sql = (art_ourr_phone)

# squareor = synth_curse()

# squareor = synth_curse(
```