

Cyber Security

Summer Internship

Mini Project

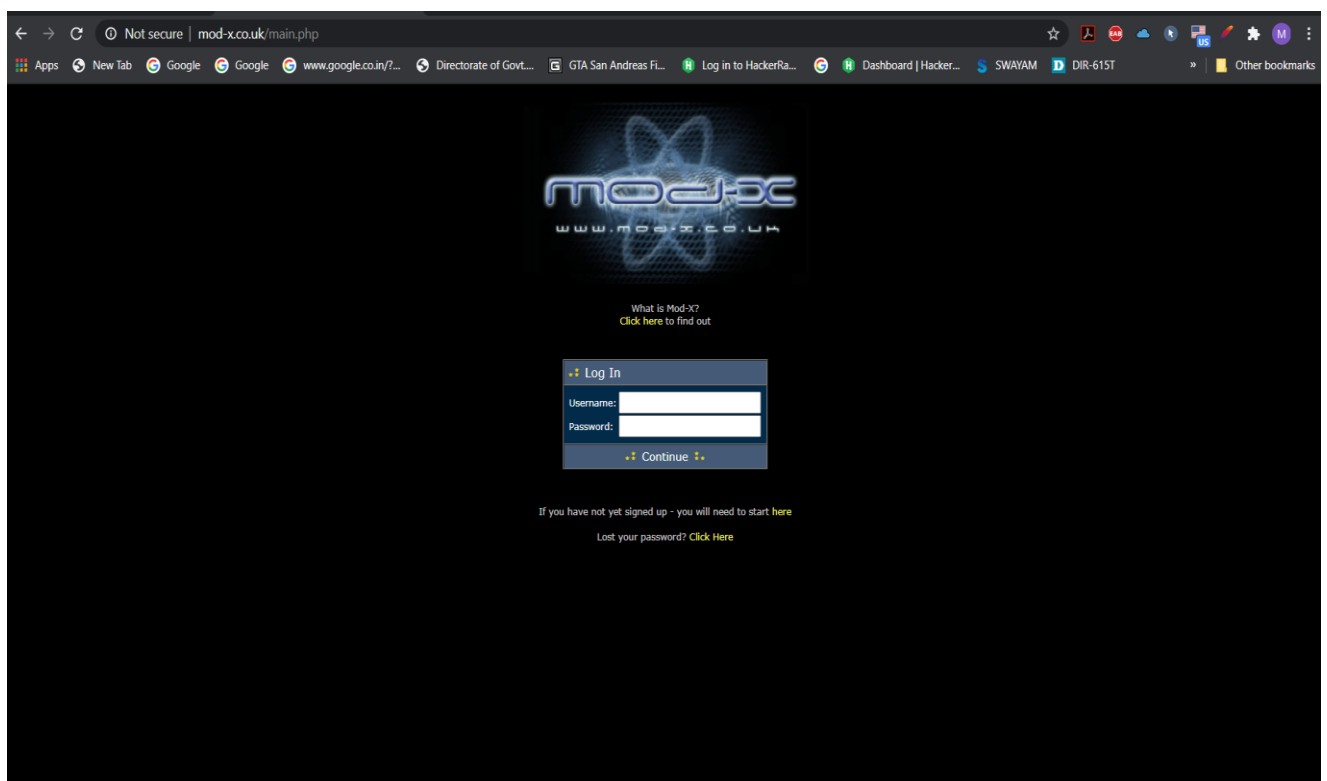
MOD-X CTF(Capture The Flag)

Steps Taken:

- Our aim is to be an agent in the Mod-x community
- To prevent the intruders this site has a different procedure to register its agents.
- We get a ZIP file with a text document in it and the only hint we get is “ The information present in the text document is Encoded”.
- And now we need to find the information present in the document by decoding it.
- There are various decoding techniques.
- As I am a Beginner the only way I thought is Trial and error method.
- After lot of research I found that the information in the text document is UUencoded.

- And then I started Looking for tools which decode the given Information.
- And after lots of trials I found that this text document has another Zip file in it and I need to extract that Zip file to get the required information.
- I took the help of WinZip tools to Unzip the hidden text file in a Zip Format.(This is Special Encoding Technique UUencoding).
- And After I Unzipped the file, I found out that the encoded Information is a mail from Mod-x Community.
- And this mail contains Credentials(for me) and a URL in which I have to Continue the further process.
- And I used the credentials and registered myself as a Mod-X agent.

Our goal is to Sign up for this website:





What is Mod-X?
[Click here](#) to find out

✪✪ Log In

Username:

Password:

✪✪ Continue ✪✪

If you have not yet signed up - you will need to start [here](#)

Lost your password? [Click Here](#)



Welcome to Mod-X.

We can not tell you any more at this point - some of you will find out everything there is to know...others will never go beyond this page. The usual login procedure applies, security restrictions are in place.

[Please proceed to enter Mod-X](#)

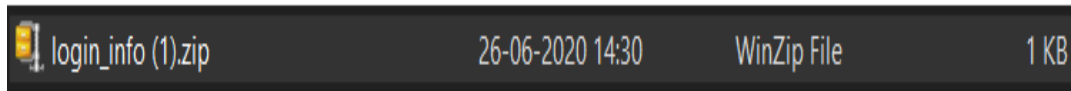


Agent, our login procedure has had to change for security reasons - please follow the new login procedure. The login procedure details have been secured to prevent any unknown intruders.

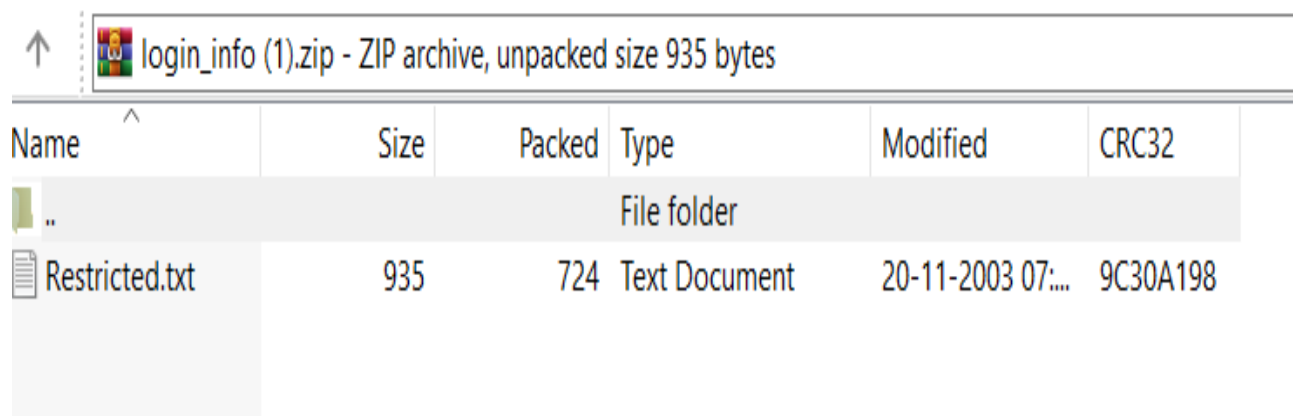
Not just anyone can be a Mod-X agent. We need to ensure you have what it takes! Get through this initiation, and then you can become a Mod-X agent (your hint is: this is a popular encoding, not an encryption).

[Click here for login procedure](#)

When we click on the above link we get a zip file downloaded as below:



When you open the zip file you find this txt file as below:

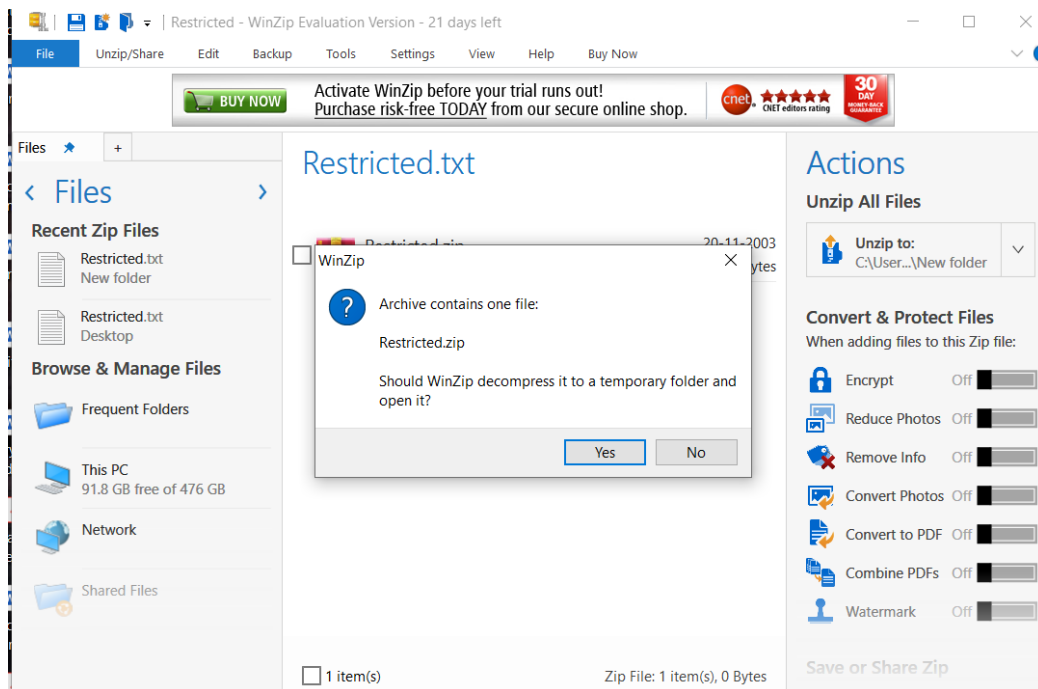


That text file contains below information:

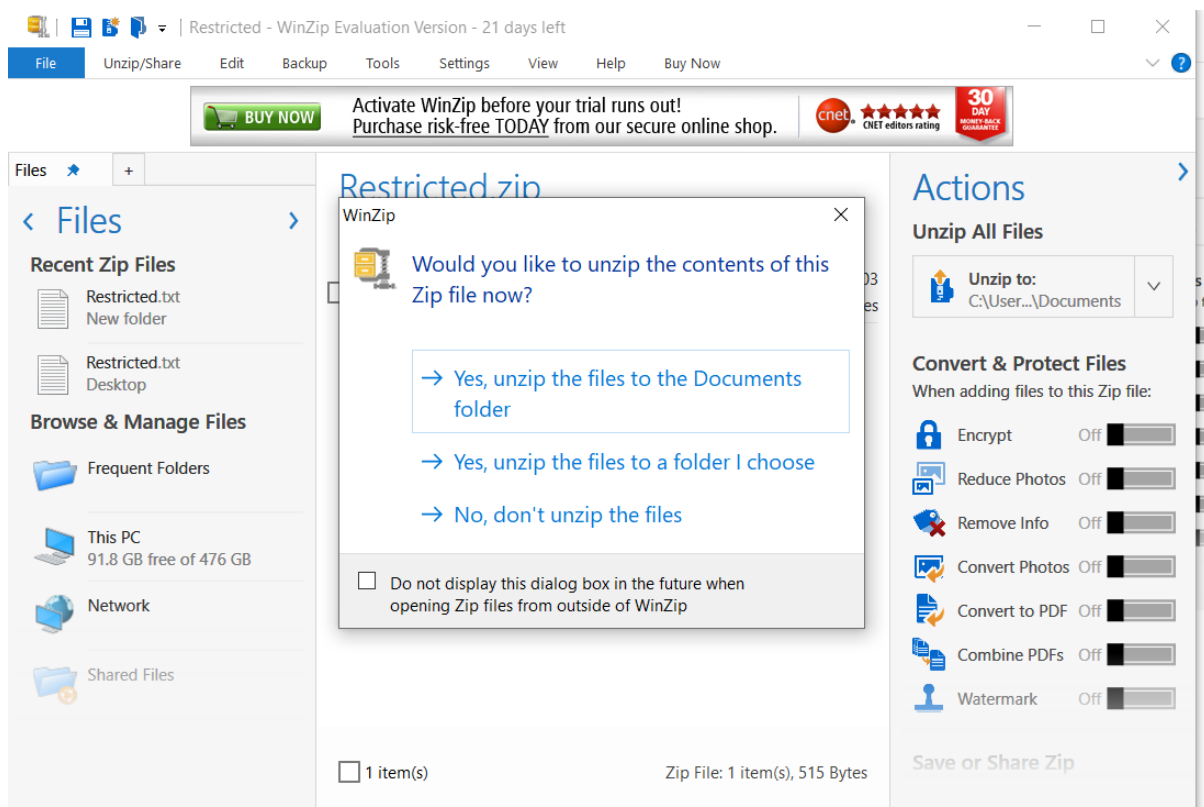
And the information in it is encoded(UUencoding)

```
Restricted.txt - Notepad
File Edit Format View Help
begin 666 Restricted.zip
M4$L#!!0` `` ``(`%T[="_]<LYX`P(``'0#` `` ``.`` ``4F5S=')I8W1E9"YT>'1M
M4\MNVT`0NQOP/TSNM@PT0!/X4N16`RE0%.GC.I9&TE;2CKH/J_K[<E;IX]" +
M'UJ20W)6^]U3)SX=]KO][D*]SD(7XHD2CX/S'26EU`L%U_6)9@E1?46NQ4,7
MR?E6P\3)J:=%@ABZY7'$P2MO"0J1GGT3Z;B1YJ#?I4ZT:!X;N@KI34)%3Y%6
MS8#>A#I-&[;E`-H%'(EY@G[/(-I',=GI;XN"H49?' 'YXT#LE]BNU.<!&*(W
M0&4Y7V#,F_&11NV<-TNU-!D!>H2P5"MF91^YE0-D&H2C5CAL\T&P:#/'A*<+
M#F6(!IEXW?Q?13Q=@P[XLBHJ>L[UX,;U8+`"X3I)0S^RjX=Q+3-28)@@+IK:
MEAD@AQRm7DY)ICG%BK[:(:,\=L$C>20*EUCR/8BP'&'H+.OT5:+`V>,*NK$%9
MZ<;>Q1X"1WJOBZ#_8HQ+`3?K%(U<1U-:7.HI6A]_+/V[\RU,J]DW!SMV@<37
M89W+>5QCL6/"MDHTQPV&UT5-<R!=?%D)MG^AR&Y3^>]::JP0H2MZ4>3UR?F,
M[>18,L'"..I2K'. ,BP8TF<K)YT_/IG1S#<@VZ^,KX$QO'[\WC_<W;V[?_-P
MW>^^/%.?TGP^G99EJ29MCC^K6JL\G%H78CJQC[CGU=S/V_M2KEN<A0?;A5U`
M[AC.U2*6OUOE0<KD#Q#\MM_]`E!+`0(4`!0` `` ``(`%T[="_]<LYX`P(``'0#
M` ``.`` `` `` ``$`(`"V@0` `` ``!297-T<FEC=&5D+G1X=%!+!08` `` `` ``0`!
+`#P` `` ``0`@` `` `` ``
end
```

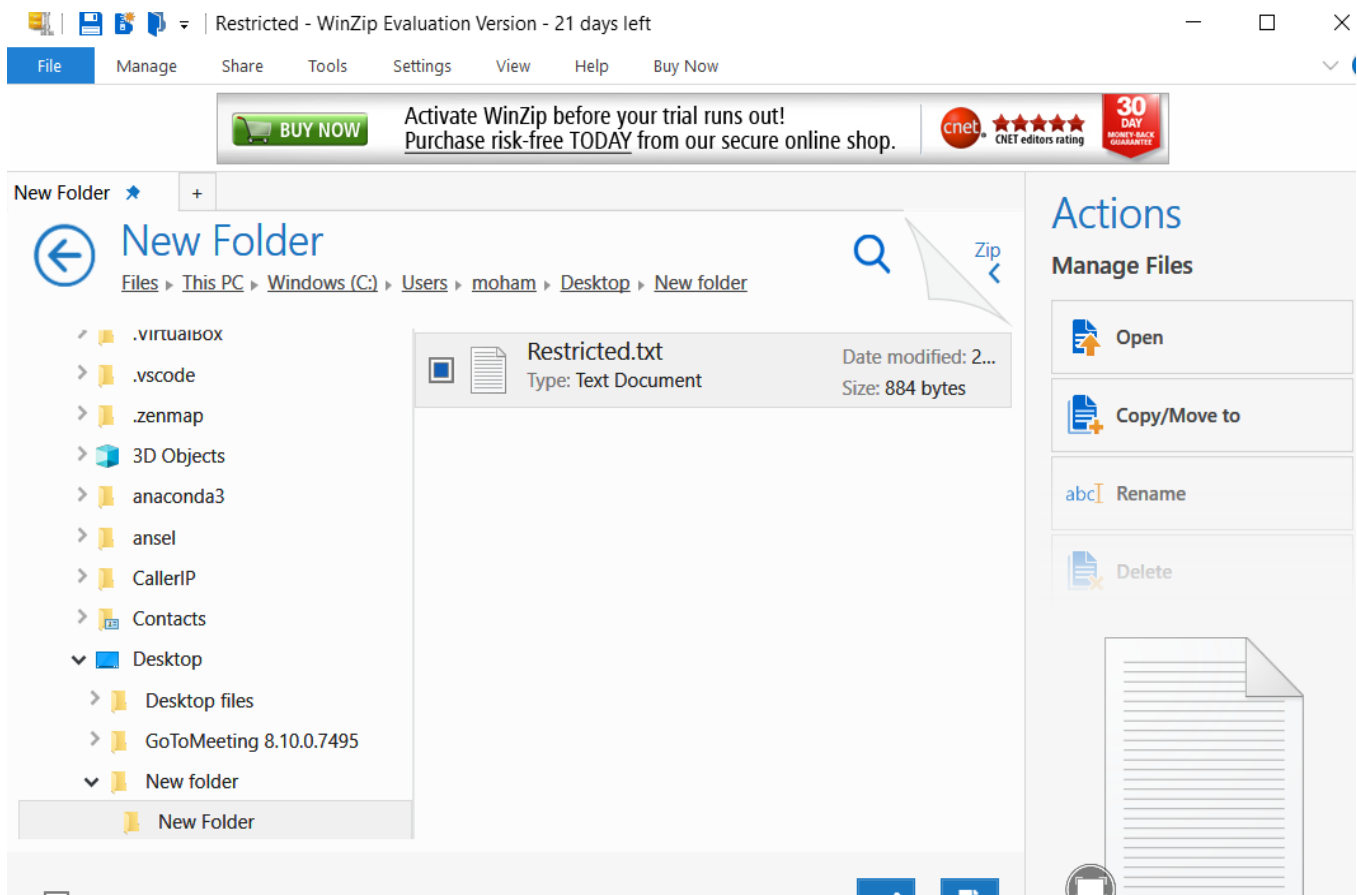

I used the below tool to open the text document I downloaded and found that it contains another Zip file in it and I decompressed it



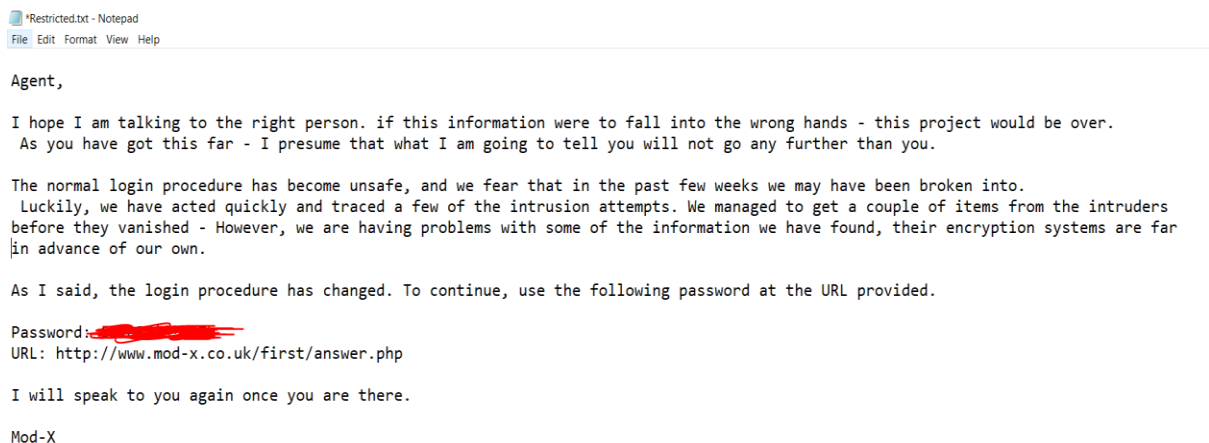
I unzipped the files and It has another file named similarly as previous file Restricted.txt



Now open the unzipped file:

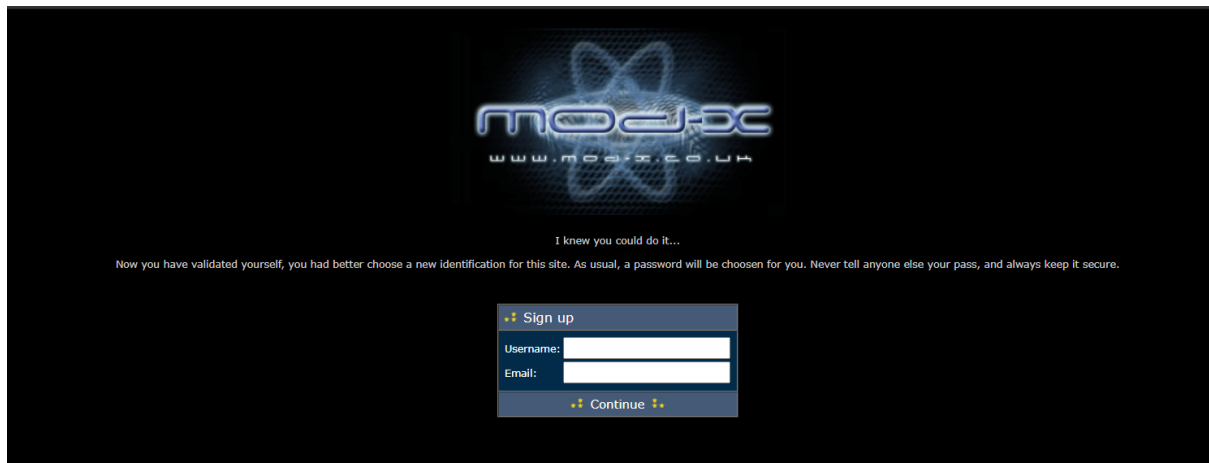


And it has a decoded message from Mod-x



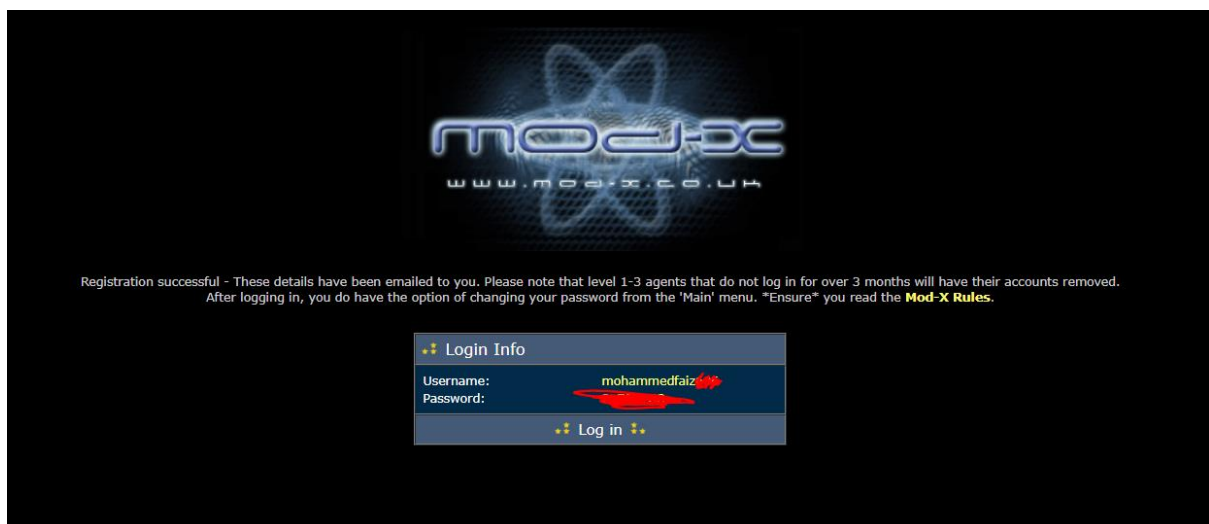
Md Qamruddin Jelani
B14, 121710314035
GITAM University

Using the provided Credentials I created my account:



The screenshot shows the MOD-X website's registration interface. At the top, the MOD-X logo is displayed with the URL www.mod-x.co.uk below it. A message reads: "I knew you could do it... Now you have validated yourself, you had better choose a new identification for this site. As usual, a password will be chosen for you. Never tell anyone else your pass, and always keep it secure." Below this is a "Sign up" form with fields for "Username:" and "Email:", and a "Continue" button.

I was provided with a unique Password



The screenshot shows the MOD-X website's login interface. At the top, the MOD-X logo is displayed with the URL www.mod-x.co.uk below it. A message reads: "Registration successful - These details have been emailed to you. Please note that level 1-3 agents that do not log in for over 3 months will have their accounts removed. After logging in, you do have the option of changing your password from the 'Main' menu. *Ensure* you read the **Mod-X Rules**." Below this is a "Login Info" form with fields for "Username:" (containing "mohammedfaiz") and "Password:" (containing a redacted password), and a "Log in" button.

And this is the Final page of Mod-X(Central Command):

