



# Web Phishing Detection

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| <div>SCENARIO</div> <div>Browsing, booking, attending, and rating a local city tour</div>  | <div></div> <div>Entice</div> <div>How does someone initially become aware of this process?</div>  | <div></div> <div>Enter</div> <div>What do people experience as they begin the process?</div>   | <div></div> <div>Engage</div> <div>In the core moments in the process, what happens?</div>   | <div></div> <div>Exit</div> <div>What do people typically experience as the process finishes?</div>                            | <div></div> <div>Extend</div> <div>What happens after the experience is over?</div>                              |
| <div></div> <div>Steps</div> <div>What does the person (or group) typically experience?</div>  | <div>Home Page</div> <div>The user can see the details about the application in home page</div> <div>Login Page</div> <div>The user must login to use our service</div> <div>Registration Page</div> <div>If the user is new to our service, they should have to register.</div> | <div>Details about our application</div> <div>The user can explore the features and services of our application in home page</div> <div>Login Process</div> <div>The user should login by entering the credentials in order to detect the URL</div> <div>Login Process</div> <div>If the user is new to our service, they can register by entering the credentials</div> <div>Input the URL</div> <div>After login, they can input the URL to detect whether the URL is malicious or not</div> | <div>URL Checking</div> <div>The entered URL will be checked by passing into the model end.</div> <div>Using of algorithm</div> <div>The model will be trained by using suitable algorithm</div> <div>Display the result.</div> <div>The detection result whether it is phishing or not will be displayed in front</div> | <div>logout</div> <div>After the user finishes their process, they can logout from the application</div>                       | <div>History of the detection</div> <div>The history of the detected URL will be saved automatically</div>       |
| <div></div> <div>Interactions</div> <div>What interactions do they have at each step along the way?<ul style="list-style-type: none"><li>■ <b>People:</b> Who do they see or talk to?</li><li>■ <b>Places:</b> Where are they?</li><li>■ <b>Things:</b> What digital touchpoints or physical objects would they use?</li></ul></div> | <div>This website will be accessed through any devices with responsiveness.</div> <div>Only the browser, URL is required to process the service.</div>   | <div>Business man, working employees, common people can use this application</div> <div>The user can see the precaution technique and report option</div>  | <div>This website is responsive in any kind of devices</div> <div>This website is easily accessible</div>  | <div>The result will be displayed in the user interface if the process gets complete.</div>                                    | <div>Blacklist and whitelist approaches are the traditional techniques to identify the phishing.</div>           |
| <div></div> <div>Goals &amp; motivations</div> <div>At each step, what is a person's primary goal or motivation? ("Help me..." or "Help me avoid...")</div>  | <div>To secure the user sensitive data from hackers</div> <div>To avoid losing of money</div>  | <div>To avoid the losing of private data.</div>  | <div>To know that the website is malicious or not.</div>   | <div>Getting clarified about the phishing websites</div>   | <div>Enhance the security of the websites at the time of developing</div>  |
| <div></div> <div>Positive moments</div> <div>What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?</div>  | <div>When the site is detected as phishing, the user should not give the data further.</div>   | <div>The user is already knows the phishing website and they guessed it.</div>   | <div>The user can detect the malicious website by just feeding the input URL to the application</div>  | <div>The user is satisfied on knowing whether the site is phishing or not.</div>   | <div>Detect and prevent against unknown phishing attacks, as new patterns are created by hackers</div>           |
| <div></div> <div>Negative moments</div> <div>What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?</div>  | <div>If the internet is disconnected, this application won't work</div>  | <div>It is the manual process. So, the user cannot verify for all the websites.</div>  | <div>Searching of deleted websites</div>   | <div>The user is already provided information even before if the website is detected as phishing site.</div>                   | <div>A new phishing website may prove to be detrimental because it has not been added to the blacklist yet</div> |
| Areas of opportunity   | <div>Detecting all the sites using this product</div>  | <div>Identifying the phishing sites</div>  | <div>Facility to report the detected malicious website</div>   | <div>Applying ML techniques in the proposed approach in order to analyze the real time URLs and produce correct results.</div> | <div>Next level of intelligence on top of signature based prevention techniques and blacklists.</div>            |