

Project Design Phase-II
Solution Requirements (Functional & Nonfunctional)

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| Date | 29 Oct 2022 |
| Team ID | PNT2022TMID49434 |
| Project Name | Project - Web Phishing Detection |

Functional Requirements:

Following are the functional requirements of the proposed solution.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|-------------------------------|---|
| FR-1 | User Registration | Registration through Form Registration through Gmail Registration through LinkedIn Registration through websites. |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | User Authentication | Confirmation for email. Confirmation for passwords |
| FR-4 | User Security | Strong Passwords, Two factor authentication, updating device management |
| FR-5 | User Performance | Usage of legitimate websites, optimize network traffic. |

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | Usability is commonly considered to be the enemy of security. In general, being secure means taking extra steps to avoid falling for different attacks. This is especially true of phishing where the best ways to prevent most phishing attacks are commonly known, but cybersecurity guidance is rarely followed. |
| NFR-2 | Security | Implementation of updated security algorithms and techniques. |
| NFR-3 | Reliability | The reliability factor evaluates if a suspected site is legitimate or not. |
| NFR-4 | Performance | A phishing website has two key characteristics: it closely resembles a real website and has at least one field for users to enter their credentials. A suspicious attachment is frequently used as a phishing attempt warning sign. |

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| NFR-5 | Availability | A common social engineering tactic used to acquire user credentials is phishing. containing account information and payment information. It happens when an attacker deceives a victim into opening an email, instant message, or text message by disguising themselves as a reliable source. |
| NFR-6 | Scalability | Scalable phishing detection and isolation, the primary ideas are to shift protection from end users to network providers and to use the innovative bad neighbourhood concept to detect and isolate both phishing email and phishing web servers. |