**SKILL SET AND INFRASTRUCTURE REQUIREMENTS**  25.8.2025

To build up an environment required for development of internal portals, primarily three steps are involved. The table below gives the steps, the activities and the associated skill sets.

Step 1: This is a **one-time** configuration which involves installation of various software/platform required for development of internal webpages. Typically the activities in this step are carried out by IT vendors in most organizations. It is very likely that already such environment is available in NIA and in that case, step 1 can be skipped.

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| **Type of Activity** | **Skill Set** | **Responsibility of** |
| Allocation of in-premises dedicated server (preferably at DC) for hosting intranet portals | Hardware Installation | IT Vendor/hardware team |
| Installation of XAMPP (64 bit i.e. xampp-windows-x64-8.2.12-0-installer.exe) | System Software | IT Vendor |
| Configuration of “.ini” and “oci.dll” files  (enable php\_oci8.dll extension in php.ini) | System software | IT Vendor |
| Installation of VPN connectors (eg Forticlient/Cisco AnyConnect etc) | Network/security | IT Vendor/ network/security team |
| Installation Remote Control Tool/VNC | Network/security | IT Vendor/ network/security team |
| Installation of Toad/SQL Developer | Database knowledge | IT Vendor |
| Installation of Dreamweaver or other suitable text editor | Web development | IT Vendor/software team |
| DNS configuration to assign appropriate name to server IP | Network/security | IT Vendor/ network/security team |

**Time Frame : Estimated total time required to build the above set-up is 7-15 days.**

Once Step 1 is completed, its proper functioning needs to be tested. For testing purpose, a simple PHP code is given in ANNEXURE-I. The code should run smoothly after creating a table named “employee” with “char\_name” as a character column of width 30.

Step 2: This step has two sections and the two sections are responsibilities of two different sets of team members.

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| --- | --- | --- |
| **Type of Activity** | **Skill Set** | **Responsibility of** |
| Creation of actual table to feed data info into web portals. | Handling oracle tables | Web developers team |
| Scheduling extraction of data from business tables/ warehouse to the web portal table to be consumed by web portals (event scheduler/DBMS scheduler) | SQL queries | IT Vendor |

**Time Frame : Estimated time required for initial roll-out of this step is 5-7 days**

It may be noted that building of SQL queries and the extraction scheduler (mentioned as activities under step 2) will require to be refined periodically and hence this is a continuous process. Requirements of such refinements will be more frequent in the initial days of developments and will gradually reduce and finally approach stabilization.

Step 3: This is the most important and critical step of the whole process. It comprises actual web development, testing and publication of various portals one by one. Such portals may include a large number of utilities like Dashboard, Fraud Claim Analytics, Circular Search Engine and many more as indicated later.

|  |  |  |
| --- | --- | --- |
| **Type of Activity** | **Skill Set** | **Responsibility of** |
| Understanding user requirement, prioritising, SRS, designing data schema, creation of tables/other source of information, macro and micro flow diagram, design of pages and navigation planning, testing, beta release and final publication of webportal. | Web development and SQL queries | Web developers |

Step 3 is a continuous process which will involve actual building of various portals like Dashboard, Health Claim Fraud Analytics, Internal Circular Search Engine, CR Submission module, Internal Election Module (Like Unions, PF Trustees), Motor Third Party Claim Analysis, Online Holiday Home Booking System….. there is no end to this list. If an internal development team is built, they can continuously add new modules and portals depending on requirements of the Organization and its employees.

**Time Frame :** Since this is a continuous process, time frame for each project is to be set individually. Typically, for Real time Dashboard, it may take 20-30 days to build the first page showing RO-level data. Each subsequent page may take typically 3-5 days. **Thus the premium related portion of Dashboard may be expected to be published in about 2 months time** after completion of step 2 activities**.** But again, any software including portals are not static in nature and continuous bug-fixing, upgradation, addition of new features etc. keep happening post roll-out also.

**Developer’s HARDWARE requirements:**

For actual development of webpages, the web developer would require a **properly configured laptop with network connections.**

**ANNEXURE-I**

<!DOCTYPE html>

<html>

<head>

<title>New India Test Page</title>

</head>

<body>

<!DOCTYPE html>

<html>

<head>

<title>Connectivity Testing</title>

</head>

<body>

<h2>List of Employees</h2>

<?php

$username = "username";

$password = "password";

$connection\_string = "localhost/niafile";

$conn = oci\_connect($username, $password, $connection\_string);

if (!$conn) {

$e = oci\_error();

echo "Connection failed: " . htmlentities($e['message']);

} else {

$sql = "SELECT char\_name FROM employees WHERE ROWNUM <= 5";

$stid = oci\_parse($conn, $sql);

oci\_execute($stid);

echo “<table border='1' cellpadding='5'>”;

echo “<tr><th>Employee ID</th><th> Name</th></tr>”;

while ($row = oci\_fetch\_assoc($stid)) {

echo "<tr>";

echo "<td>" . $row['CHAR\_NAME']) . "</td>";

echo "</tr>";

}

echo "</table>";

// Close connection

oci\_free\_statement($stid);

oci\_close($conn);

}

?>

</body>

</html>

</body>

</html>