Cyber Security Assessment Report

Of

PUBLIC SERVICE COMMISSION (PSC),

ANDHRA PRADESH PUBLIC SERVICE COMMISSION (APPSC), Govt. of A.P

Dated 16/07/2019

by

Andhra Pradesh Technology Services

3rd Floor, R&B Building, M.G. Road, Labbipet,

Vijayawada – 520 010. Andhra Pradesh

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1. Executive Summary

## Introduction

The A.P. Public Service Commission came in to existence on 1st November, 1956 with the formation of the State of Andhra Pradesh. Before this, there was Andhra Public Service Commission in the Andhra State and Hyderabad Public Service Commission in the Hyderabad State. Andhra Service Commission came in to existence only in 1953 after the bifurcation of composite Madras State into Andhra and Madras States.

Andhra Pradesh Technology Services (hereon referred as APTS) performed the Cyber Security Assessment of [Public](https://tptuat.aponline.gov.in/APRDC/UI/Home.aspx) Service Commission Application for APPSC Department to determine, if any weakness exist in the application.

## Engagement Specific Details

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| --- | --- | --- |
| 1. **S. No.** | **Activity** | 1. **Date** |
| 1. 1. | 1. Start date of engagement | 1. 12/07/2019 |
| 1. 2. | 1. Submission date of initial report | 1. 16/07/2019 |

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| --- | --- | --- | --- | --- |
| 1. **S. No** | **Area** | **Review Performed By** | **Application SPOC** | **Department Name** |
| 1. 1. | 1. Application security Assessment | 1. Yaswanth Kumar G | 1. Sri, Mr.Sanjay | APPSC |

|  |  |  |  |
| --- | --- | --- | --- |
| 1. **S. No** | **Date** | **Version Number** | 1. **Remarks** |
| 1. 1. | 1. 16/07/2019 | 1. v1.0 | 1. Initial Review |

## Scope Details

### Inclusion

1. **Web Application Security Assessment & Penetration Testing**

Application Name: Public Service Commission

Application URL: <https://uat-psc.aponline.gov.in:8080/UI>

Environment: Staging Server

Version Number [or] Latest Compilation Timestamp: Not Provided

Type of Review: Gray box

Credentials Tested: OTPR ID: AP1000301020, AP1001076260 OTPR ID:

Hash of Zipped Source Code (SHA512): Not Provided

### Exclusion

1. Server Vulnerability Assessment
2. Secure Code Review
3. Process Review
4. Secure Network Architecture Review
5. /recruitments, /masters, fee payment

## Approach & Methodology

1. The web application security assessment was conducted in line with the leading security standards and guidelines for web application security such as OWASP.
2. The approach followed for the security assessment is detailed below:

### Information Gathering:

We conducted a walkthrough of the web application to assess the scope of the security assessment and obtain the following information to identify the potential attack vectors:

* 1. Functionalities available in the web application
  2. Entry points for the web application
  3. Web application is custom developed or off-the-shelf application
  4. Protocols used by the web application
  5. Back-end technology including web server, framework, and development language
  6. Conduct search engine discovery and reconnaissance
  7. Banner grabbing (finger printing) to identify the running version of web server / application server and framework
  8. Enumerate application on web server to identify other applications running on the server
  9. View source of the web application to review the comments and metadata
  10. Map functionalities and data flow to identify attack vectors

### Automated & Manual Scanning:

We performed an unauthenticated/ black-box automated & Manual scanning (without the knowledge of user credentials) of the web application URL using commercial and open source tools. The scanning was conducted to identify any known vulnerabilities in the subjected application.

### Analyse results and reporting:

We then analysed the results from manual inspection to identify the vulnerabilities applicable to the web application. The risk classification for each of these vulnerabilities was identified based on the likelihood of occurrence, impact, and level of access required to exploit these vulnerability as per the risk classification methodology detailed in 5.2 of the report.

* + 1. An exception based detailed report is prepared with the following:

1. Description of the vulnerability
2. Risk Rating
3. Impact & Root Cause
4. Recommendation including reference links

## Risk Categorization

The risk ratings assigned to each finding in this report are based on 3 dimensions – Likelihood, Impact, and Level of access required. These are defined below.

|  |  |  |
| --- | --- | --- |
| **Likelihood** | High | Attacker can use existing tools to exploit the vulnerability by following prescriptive instructions and without knowledge of coding/platforms. Target can be exploited directly. Finding assists with exploitation of or is linked to other high or critical risk findings. |
| Medium | Attacker must have knowledge of coding/platforms and may require customisation of tools (e.g. batch scripts, shell scripts, Metasploit module customization) to exploit the vulnerability. Exploitation of target may require setup of additional infrastructure or processes. |
| Low | High level of skill required to exploit. Attacker must develop their own tools or processes (e.g. custom written exploit code) to successfully exploit the vulnerability.  Publicly available exploits were not identified.  Exploitation of target requires setup of additional infrastructure or processes (e.g. Spear Phishing). |
| **Impact** | Severe | Vulnerability may lead to widespread administrator access to multiple materially sensitive systems (e.g. Enterprise Administrator), or access to the internal network from the Internet. |
| Major | Vulnerability may lead to immediate access to sensitive or materially sensitive data, or highly privileged access to critical business systems, or a severe and extended disruption to critical business systems or operations, with impact to many users or sites. |
| Moderate | Vulnerability may lead to access to sensitive data, or privileged access to critical business systems, or partial disruption to critical business systems or operations, with impact to some users or sites. |
| Minor | Vulnerability may lead to:  Access to non-sensitive data, or  Access to non-critical business systems, or  Disruption to non-critical business systems or operations, with limited impact to users/sites. |
| Insignificant | Information disclosure of non-sensitive enticement information (e.g. IP addresses, hostnames, system information) with no direct impact to availability. |
| **Level of access required** | Privileged | Privileged user (e.g. administrator). |
| Non-privileged | General user (e.g. domain user). |
| Internal Anonymous | Unauthenticated user with access to the internal network. |
| External Anonymous | Unauthenticated Internet user (includes web applications that allow self-registration). |

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| **Consequence**  **Likelihood** | **Small** | **Moderate** | **Severe** | **Catastrophic** |
| **Low** | Info | Low | Medium | Medium |
| **Moderate** | Low | Medium | Medium | High |
| **High** | Low | Medium | High | High |
| **Very High** | Medium | High | High | High |

The final risk ratings are defined as follows:

|  |  |
| --- | --- |
| High | Urgent action should be taken to address findings. |
| Medium | Action should be taken to address findings in a timely manner.  Out of cycle change and compensating controls may be required. |
| Low | No immediate action required. Remediation items can be implemented during the next scheduled change window. |
| Information | No immediate risks to the environment were identified as part of the testing. Findings are informational only. |

Note: The above matrices are intended to be used as a guide only in determining the appropriate risk rating for a particular vulnerability. Other factors may need to be considered when weighing up the final risk rating, such as the number of servers/applications affected by the vulnerability, nature of system’s affected (e.g. Production, Development, and Test), and nature of data accessed or disclosed.

## Vulnerability Summary

Below is the summary of open vulnerabilities that still exist in the application.

|  |  |  |  |
| --- | --- | --- | --- |
| **Review Area** | **Initial Review** | | |
| **High** | **Medium** | **Low** |
| **Web Application Security Assessment** | 2 | 4 | 6 |
| **Total** |  |  | **12** |

### 

### Distribution of Observation

1. Detailed Observation

## Web Application Security Assessment & Penetration Testing

|  |  |  |
| --- | --- | --- |
| 1. **Vulnerability Title** | [**Broken**](https://portswigger.net/knowledgebase/issues/details/00200300_crosssitescriptingreflected) **Access Control** | **Risk Rating**: High |
| **Description** | The application allows an unauthenticated user to access the pages that should be accessible to the authenticated users only. This happens due to the improper implementation of access controls set by the application. | |
| **Affected Path(s)** | https://uat-psc.aponline.gov.in:8080/UI/RegistrationForms/  https://psc.ap.gov.in/(S(5yyefwzglo2u1ag3olu2xugi))/UI/Reprints/  https://uat-psc.aponline.gov.in:8080/OTPR/(S(h4kh111xns5rrleu03x35v5o))/UI/RegistrationForms | |
| **Impact** | Attackers acting as users or administrators, or users using privileged functions have the ability of creating, accessing, updating or deleting every record. | |
| **Evidence/Proof of Concept**  **Step-1:** In **Recover OTPRID,** found insufficient anti automation(No Captcha).  BAC 1.png  ***Fig: Forgot OTPR id page***  **Step-2:** Using Google Dorking found the excel sheet of group2 applicant details.  BAC 2.png  ***Fig: Excel Sheet found in Google Dorking***  **Step-3:** The Excel sheet the Date of Birth details of all applicants.  BAC 3.png  ***Fig: Date of Birth data of all applicants***  **Step-4:** Fuzzed the FORGOT OTPRID “DOB” field with data found from excel sheet  BAC 4.png  ***Fig: Identified applicants application id and name***  **Step-5:** From the above test, we have retrieved the Application IDs and name of the applicants. Using the password guessing attack, we are able to login to the user’s account (user id: application ID, password: firstname@123).  BAC 6.png  ***Fig: Logged into the application with the guessable password***  **Step-6:** Under Reprint module, Department OTPR Reprint functionality is available to fetch applicant OTPR data.  BAC 7.png  ***Fig: Department OTPR Reprint***  **Step-7:** By clicking on Department OTPR Reprint it will get the applicant OTPR data with the below link  **URL:** https://uat-psc.aponline.gov.in:8080/UI/RegistrationForms/PrintDepartmentOneTimeRegistration.aspx?RegistrationId=SpLaVr9leq4UKzOMY8/zjg==  BAC 8.png  ***Fig: Applicant data***  **Step-8:** Able to access the same URL without any authentication opened the same link in a newly opened icognito window.  BAC 10.png  ***Fig: Applicant data without any authentication***  **Step-8:** It is possible to get other applicants data by changing the random values in URL as we found the one more with given URL  **URL:** <https://uat-psc.aponline.gov.in:8080/UI/RegistrationForms/PrintDepartmentOneTimeRegistration.aspx?RegistrationId=3A/PNKCePVSGiIoIImJFNg==>  BAC 11.png  ***Fig: Applicant data without any authentication*** | | |
| **Recommendation** | The default should always be denial. Everyone should be denied access to everything, and then every specific role can be explicitly granted access for each function needed. It is recommended to log failed attempts to access features to make sure everything is configured correctly. | |
| **Management Comments** |  | |

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| 1. **Vulnerability Title** | [**Cross-Site Scripting (Reflected)**](https://portswigger.net/knowledgebase/issues/details/00200300_crosssitescriptingreflected) | **Risk Rating**: High |
| **Description** | Reflected cross-site scripting vulnerabilities arise when data is copied from a request and echoed into the application's immediate response in an unsafe way. An attacker can use the vulnerability to construct a request that, if issued by another application user, will cause JavaScript code supplied by the attacker to execute within the user's browser in the context of that user's session with the application. | |
| **Affected Path(s)** | <https://uat-psc.aponline.gov.in:8080/HomePages/Notfn26Attachments.aspx>  parameter – Subject | |
| **Impact** | Users can be induced to issue the attacker's crafted request in various ways. For example, the attacker can send a victim a link containing a malicious URL in an email or instant message. They can submit the link to popular web sites that allow content authoring, for example in blog comments. And they can create an innocuous looking web site that causes anyone viewing it to make arbitrary cross-domain requests to the vulnerable application (using either the GET or the POST method). | |
| **Evidence/Proof of Concept**  **Step-1:** Accessed the below URL and injected with Java Script at subject parameter as shown in image  <https://uat-psc.aponline.gov.in:8080/HomePages/Notfn26Attachments.aspx>  ***Reflected XSS.png***  ***Fig:*** [***Cross-Site Scripting (Reflected)***](https://portswigger.net/knowledgebase/issues/details/00200300_crosssitescriptingreflected) | | |
| **Recommendation** | Input should be validated as strictly as possible on arrival, given the kind of content that it is expected to contain. For example, personal names should consist of alphabetical and a small range of typographical characters, and be relatively short; a year of birth should consist of exactly four numerals; email addresses should match a well-defined regular expression. Input which fails the validation should be rejected, not sanitized.  User input should be HTML-encoded at any point where it is copied into application responses. All HTML metacharacters, including < > " ' and =, should be replaced with the corresponding HTML entities (&lt; &gt; etc). | |
| **Management Comments** |  | |

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| 1. **Vulnerability Title** | | **Improper Session Management** | **Risk Rating:** Medium | |
| **Description** | | The session id remains the same for all session’s generated i.e. pre-login, login and logout sessions. There should be different session id for every session generated. | | |
| **Affected Path(s)** | | /(Web server) | | |
| **Impact** | | Insufficient Session Expiration is when a web site permits an attacker to reuse old session credentials or session IDs for authorization. | | |
| **Evidence/Proof of Concept**  **Step-1:** Session Id before login  Session 1 before login.png  ***Fig: Session id before login***  **Step-2:** Session Id after login  Session 2 after login.png  ***Fig: Session id after login***  **Step-3:** Session Id after logout  Session 3 after logout.png  ***Fig: Session id after logout*** | | | | |
| **Recommendation** | | It is mandatory to set expiration timeouts for every session, establishing the amount of time a session will remain active. Insufficient session expiration by the web application increases the exposure of other session-based attacks. | | |
| **Management Comments** | |  | | |
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| 1. **Vulnerability Title** | **Improper CAPTCHA implementation** | **Risk Rating:** Medium |
| **Description** | Getting CAPTCHA in URL itself so until the page reloads captcha will be same due to this improper implementation brute force attacks may possible | |
| **Affected Path(s)** | /UI/CandidateLoginPages/LoginNew.aspx | |
| **Impact** | Combination of letters, numbers, and symbols until it discovers the one correct combination that works. An attacker may attempt to discover a weak password by systematically trying every possible | |
| **Evidence/Proof of Concept**  **Step-1:** Captcha can be copied from source page  Improper Captcha Implementation.png  ***Fig: Able to copy and paste the Captcha from source page*** | | |
| **Recommendation** | It is recommended to implement captcha to every form before login & after login  Because the CAPTCHA cracking attacks are still improving (and will improve in the future),   * CAPTCHA should be perceived as a rate-limiting protection only. If it is implemented, the following considerations should be taken into account: * No CAPTCHA information (except the image itself) should be stored on the client side * The client should have no "control" over the CAPTCHA content * CAPTCHA images should be always randomly generated without possibility to perform image preprocessing, segmentation and classification * CAPTCHA images should not be reused. | |
| **Management Comments** |  | |

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| 1. **Vulnerability Title** | **Concurrent Logins Possible** | **Risk Rating:** Medium |
| **Description** | It is the web application design decision to determine if multiple simultaneous logons from the same user are allowed from the same or from different client IP addresses. If the web application does not want to allow simultaneous session logons, it must take effective actions after each new authentication event, implicitly terminating the previously available session, or asking the user (through the old, new or both sessions) about the session that must remain active. | |
| **Affected Path(s)** | / Webserver | |
| **Impact** | An Attacker can login with same session and make effective changes. | |
| **Evidence/Proof of Concept**  **Step-1:** Able to login to the application using same credentials from different locations  Concurrent login.png  ***Fig: Concurrent Logins*** | | |
| **Recommendation** | It is recommended for web applications to add user capabilities that allow checking the details of active sessions at any time, monitor and alert the user about concurrent logons, provide user features to remotely terminate sessions manually, and track account activity history (logbook) by recording multiple client details such as IP address, User-Agent, login date and time, idle time, etc. | |
| **Management Comments** |  | |

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| 1. **Vulnerability Title** | **Missing Security Headers** | **Risk Rating**: Medium |
| **Description** | X-WebKit-CSP and X-Content-Security-Policy headers in various tutorials on the web. Going forward, you should ignore these prefixed headers. Modern browsers (with the exception of IE) support the unprefixed Content-Security-Policy header. That's the header you should use.  **HSTS Header:**  The server is not configured with the HTTP strict transport security header (HSTS) in the response header. HTTP Strict Transport Security (HSTS) is a method for web applications to ensure they only use TLS to support secure transport. It protects users against passive eavesdropper and active man-in-the-middle (MITM) attacks. | |
| **Affected Path(s)** | https://uat-psc.aponline.gov.in:8080 | |
| **Impact** | There is no direct impact of not implementing CSP on your website. However, if your website is vulnerable to a Cross-site Scripting attack CSP can prevent successful exploitation of that vulnerability.  Failing to implement HSTS can lead to potential man in the middle attack and eaves dropping the connections. | |
| **Evidence/Proof of Concept**  **Old security  headers.png**  **Figure:** Old Security Headers | | |
| **Recommendation** | Configure the server with the following options:   * X-WebKit-CSP and X-Content-Security-Policy headers in various tutorials on the web. Going forward, you should ignore these prefixed headers. Modern browsers (with the exception of IE) support the unprefixed Content-Security-Policy header. That's the header you should use. * Strict-Transport-Security: max-age=31536000   The HSTS policy is applied only to the domain of HSTS host issuing it and remains in effect for one year.   * Strict-Transport-Security: max-age=31536000; includeSubDomains   The HSTS policy is applied to the domain of the issuing host as well as its subdomains and remains in effect for one year. | |
| **Management Comment** |  | |

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| 1. **Vulnerability Title** | **Technology/Version disclosure** | **Risk Rating:** Low |
| **Description** | The HTTP responses returned by this web application include a header named **Server**. The value of this header includes the version of Microsoft IIS server. | |
| **Affected Path(s)** | / (webserver) | |
| **Impact** | The HTTP header may disclose sensitive information. This information can be used to launch further attacks. | |
| **Evidence/Proof of Concept**  Technology info1.png  ***Fig: Technology Info Disclosure*** | | |
| **Recommendation** | Microsoft IIS should be configured to remove unwanted HTTP response headers from the response. Consult web references for more information. | |
| **Management Comments** |  | |

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| 1. **Vulnerability Title** | **Improper Error Handling** | **Risk Rating:** Low |
| **Description** | Improper handling of errors can introduce a variety of security problems for a web site. The most common problem is when detailed internal error messages such as stack traces, database dumps, and error codes are displayed to the user (hacker).Using Custom error pages but for 404 errors only its redirecting to error page but not for 500 server error. | |
| **Affected Path(s)** | / (Webserver) | |
| **Impact** | One common security problem caused by improper error handling is the fail-open security check. All security mechanisms should deny access until specifically granted, not grant access until denied, which is a common reason why fail open errors occur. Other errors can cause the system to crash or consume significant resources, effectively denying or reducing service to legitimate users. | |
| **Evidence/Proof of Concept**  Error page filepath disclosure.png  ***Fig: Server Error Page*** | | |
| **Recommendation** | Please check all the error codes redirecting to custom error page when such exception occur | |
| **Management Comments** |  | |

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| 1. **Vulnerability Title** | **Clickjacking** | **Risk Rating:** Low |
| **Description** | Clickjacking is a malicious technique of tricking a Web user into clicking on something different from what the user perceives they are clicking on, thus potentially revealing confidential information or taking control of their computer while clicking on seemingly innocuous web pages. | |
| **Affected Path(s)** | / (Webserver) | |
| **Impact** | An attacker can host this domain in other evil site by using iframe and if a user fills the given field it can directly redirect as logs to attacker and after its redirect to your web server. Leading to steal user information too and use that host site as phishing of your site its CSRF and Clickjacking. | |
| **Evidence/Proof of Concept**  Clickjacking.png  ***Fig: Clickjacking*** | | |
| **Recommendation** | 1. Sites can use X-Frame-Options to avoid clickjacking attacks, by ensuring that their content is not embedded into other sites.   It is recommended to perform the following: ? Use the X-FRAME Options in response header set to DENY or Same Origin or ALLOW-FROM a specified URL? X-Frame-Options: This header works with modern browsers and can be used to prevent framing of the page. | |
| **Management Comments** |  | |

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| 1. **Vulnerability Title** | **Debug Method Enabled** | **Risk Rating**: Low |
| **Description** | ASP.NET debugging is enabled on this application. | |
| **Affected Path(s)** | https://uat-psc.aponline.gov.in:8080/ | |
| **Impact** | It may be possible that sensitive information about the web server is disclosed through the ASP.NET application. By default, debugging is disabled, and although debugging is frequently enabled to troubleshoot a problem, it is also frequently not disabled again after the problem is resolved. | |
| **Evidence/Proof of Concept**  Debug Method.png  ***Fig: Debug Method Enabled*** | | |
| **Recommendation** | The default should always be denial. Everyone should be denied access to everything, and then every specific role can be explicitly granted access for each function needed. It is recommended to log failed attempts to access features to make sure everything is configured correctly. | |
| **Management Comments** |  | |

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| 1. **Vulnerability Title** | **Improper Last Login Time** | **Risk Rating**: Low |
| **Description** | The last login time should be displayed after login, as soon as the user login to the application it displays the time the user has logged in. | |
| **Affected Path(s)** | https://uat-psc.aponline.gov.in:8080/Default.aspx | |
| **Impact** | The login attempts for service and scheduled job users are tracked in the same way when this feature is activated. The feature assumes interactive users are only used for interactive login access. | |
| **Evidence/Proof of Concept**  **Step-1**: Logged into application  **Last Login TIme.png**  **Figure:** ImproperLast Login Time | | |
| **Recommendation** | It is recommended to implement the last login time after login so that If an account is used for multiple purposes, the last interactive login reporting would also report the last service or scheduled job logon. | |
| **Management Comment** |  | |

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| 1. **Vulnerability Title** | [**Subresource Integrity (SRI) not implemented**](https://10.0.0.6:3443/#/scans/e6c53500-f620-40e9-878a-4939cf4aa352/results/5ad5b391-241d-4992-bff6-dcbf8a043588/1997223014768313723/?returnUrl=%252Fscans%252Fe6c53500-f620-40e9-878a-4939cf4aa352%252Fvulns%252F5ad5b391-241d-4992-bff6-dcbf8a043588%252F%253Fstatus%253Dopen%2526typ) | **Risk Rating**: Low |
| **Description** | Subresource Integrity (SRI) is a security feature that enables browsers to verify that third-party resources they fetch (for example, from a CDN) are delivered without unexpected manipulation. It works by allowing developers to provide a cryptographic hash that a fetched file must match.Third-party resources (such as scripts and stylesheets) can be manipulated. An attacker that has access or has hacked the hosting CDN can manipulate or replace the files. SRI allows developers to specify a base64-encoded cryptographic hash of the resource to be loaded. The integrity attribute containing the hash is then added to the <script> HTML element tag. The integrity string consists of a base64-encoded hash, followed by a prefix that depends on the hash algorithm. This prefix can either be sha265, sha384 or sha512. The script loaded from the external URL specified in the Details section doesn't implement Subresource Integrity (SRI). It's recommended to implement Subresource Integrity (SRI) for all the scripts loaded from external hosts. | |
| **Affected Path(s)** | /(Web Server) | |
| **Impact** | An attacker that has access or has hacked the hosting CDN can manipulate or replace the files. | |
| **Evidence/Proof of Concept**  **Step-1**: View-Source page of index.aspx  **SRI.png**  **Figure:** Source page of index.aspx | | |
| **Recommendation** | It is recommended to implement the last login time after login so that If an account is used for multiple purposes, the last interactive login reporting would also report the last service or scheduled job logon. | |
| **Management Comment** |  | |

1. Appendix

## OWASP Checklist

The Application Security Assessment has been evaluated as per Open Web Application Security Project Testing guide v4.0 as follows:

| **Ref. No** | **Category** | **Test Name** | **Safe?** | **Remarks** |
| --- | --- | --- | --- | --- |
| 1.1 | **Information Gathering** | | | |
| 1.1.1 | OTG-INFO-001 | Conduct Search Engine Discovery and Reconnaissance for Information Leakage | NA | Not Applicable |
| 1.1.2 | OTG-INFO-002 | Fingerprint Web Server | No | Tested unsafe refer  vulnerability in 2.1 |
| 1.1.3 | OTG-INFO-003 | Review Webserver Metafiles for Information Leakage | Yes | Tested. Not Vulnerable |
| 1.1.4 | OTG-INFO-004 | Enumerate Applications on Webserver | No | Tested unsafe refer  vulnerability in 2.1 |
| 1.1.5 | OTG-INFO-005 | Review Webpage Comments and Metadata for Information Leakage | Yes | Tested. Not Vulnerable |
| 1.1.6 | OTG-INFO-006 | Identify application entry points | Yes | Tested. Not Vulnerable |
| 1.1.7 | OTG-INFO-007 | Map execution paths through application | Yes | Tested. Not Vulnerable |
| 1.1.8 | OTG-INFO-008 | Fingerprint Web Application Framework | No | Tested unsafe refer  vulnerability in 2.1 |
| 1.1.9 | OTG-INFO-009 | Fingerprint Web Application | No | Tested unsafe refer  vulnerability in 2.1 |
| 1.1.10 | OTG-INFO-010 | Map Application Architecture | Yes | Tested. Not Vulnerable |
| 1.2 | **Configuration and Deploy Management Testing** | | | |
| 1.2.1 | OTG-CONFIG-001 | Test Network/Infrastructure Configuration | NA | Not Applicable |
| 1.2.2 | OTG-CONFIG-002 | Test Application Platform Configuration | Yes | Tested. Not Vulnerable |
| 1.2.3 | OTG-CONFIG-003 | Test File Extensions Handling for Sensitive Information | Yes | Tested. Not Vulnerable |
| 1.2.4 | OTG-CONFIG-004 | Backup and Unreferenced Files for Sensitive Information | Yes | Tested. Not Vulnerable |
| 1.2.5 | OTG-CONFIG-005 | Enumerate Infrastructure and Application Admin Interfaces | No | Out of Scope |
| 1.2.6 | OTG-CONFIG-006 | Test HTTP Methods | No | Tested unsafe refer  vulnerability in 2.1 |
| 1.2.7 | OTG-CONFIG-007 | Test HTTP Strict Transport Security | No | Tested unsafe refer  vulnerability in 2.1 |
| 1.2.8 | OTG-CONFIG-008 | Test RIA cross domain policy | Yes | Tested. Not Vulnerable |
| 1.3 | **Identity Management Testing** | | | |
| 1.3.1 | OTG-IDENT-001 | Test Role Definitions | Yes | Tested. Not Vulnerable |
| 1.3.2 | OTG-IDENT-002 | Test User Registration Process | No | Tested unsafe refer  vulnerability in 2.1 |
| 1.3.3 | OTG-IDENT-003 | Test Account Provisioning Process | NA | Not Applicable |
| 1.3.4 | OTG-IDENT-004 | Testing for Account Enumeration and Guessable User Account | No | Tested unsafe refer  vulnerability in 2.1 |
| 1.3.5 | OTG-IDENT-005 | Testing for Weak or unenforced username policy | Yes | Tested. Not Vulnerable |
| 1.3.6 | OTG-IDENT-006 | Test Permissions of Guest/Training Accounts | Yes | Tested. Not Vulnerable |
| 1.3.7 | OTG-IDENT-007 | Test Account Suspension/Resumption Process | NA | Not Applicable |
| 1.4 | **Authentication Testing** | | | |
| 1.4.1 | OTG-AUTHN-001 | Testing for Credentials Transported over an Encrypted Channel | Yes | Tested. Not vulnerable |
| 1.4.2 | OTG-AUTHN-002 | Testing for default credentials | Yes | Tested. Not Vulnerable |
| 1.4.3 | OTG-AUTHN-003 | Testing for Weak lock out mechanism | No | No Lockout Mechanism |
| 1.4.4 | OTG-AUTHN-004 | Testing for bypassing authentication schema | Yes | Tested. Not Vulnerable |
| 1.4.5 | OTG-AUTHN-005 | Test remember password functionality | Yes | Tested. Not Vulnerable |
| 1.4.6 | OTG-AUTHN-006 | Testing for Browser cache weakness | Yes | Tested. Not Vulnerable |
| 1.4.7 | OTG-AUTHN-007 | Testing for Weak password policy | Yes | Tested. Not Vulnerable |
| 1.4.8 | OTG-AUTHN-008 | Testing for Weak security question/answer | NA | Not Applicable |
| 1.4.9 | OTG-AUTHN-009 | Testing for weak password change or reset functionalities | Yes | Tested. Not Vulnerable |
| 1.4.10 | OTG-AUTHN-010 | Testing for Weaker authentication in alternative channel | NA | Not Applicable |
| 1.5 | **Authorization Testing** | | | |
| 1.5.1 | OTG-AUTHZ-001 | Testing Directory traversal/file include | Yes | Tested. Not Vulnerable |
| 1.5.2 | OTG-AUTHZ-002 | Testing for bypassing authorization schema | Yes | Tested. Not Vulnerable |
| 1.5.3 | OTG-AUTHZ-003 | Testing for Privilege Escalation | Yes | Tested. Not Vulnerable |
| 1.5.4 | OTG-AUTHZ-004 | Testing for Insecure Direct Object References | Yes | Tested. Not Vulnerable |
| 1.6 | **Session Management Testing** | | | |  | Session Management Testing |
| 1.6.1 | OTG-SESS-001 | Testing for Bypassing Session Management Schema | Yes | Tested. Not Vulnerable |
| 1.6.2 | OTG-SESS-002 | Testing for Cookies attributes | Yes | Tested. Not Vulnerable |
| 1.6.3 | OTG-SESS-003 | Testing for Session Fixation | No | Tested unsafe refer  vulnerability in 2.1 |
| 1.6.4 | OTG-SESS-004 | Testing for Exposed Session Variables | Yes | Tested. Not Vulnerable |
| 1.6.5 | OTG-SESS-005 | Testing for Cross Site Request Forgery | Yes | Tested. Not Vulnerable |
| 1.6.6 | OTG-SESS-006 | Testing for logout functionality | Yes | Tested. Not Vulnerable |
| 1.6.7 | OTG-SESS-007 | Test Session Timeout | No | Tested unsafe refer  vulnerability in 2.1 |
| 1.6.8 | OTG-SESS-008 | Testing for Session puzzling | NA | Tested. Not Vulnerable |
| 1.7 | **Data Validation Testing** | | | |
| 1.7.1 | OTG-INPVAL-001 | Testing for Reflected Cross Site Scripting | No | Tested unsafe refer  vulnerability in 2.1 |
| 1.7.2 | OTG-INPVAL-002 | Testing for Stored Cross Site Scripting | Yes | Tested. Not Vulnerable |
| 1.7.3 | OTG-INPVAL-003 | Testing for HTTP Verb Tampering | Yes | Tested. Not Vulnerable |
| 1.7.4 | OTG-INPVAL-004 | Testing for HTTP Parameter pollution | Yes | Tested. Not Vulnerable |
| 1.7.5 | OTG-INPVAL-005 | Testing for SQL Injection | Yes | Tested. Not Vulnerable |
| 1.7.5.1 |  | Oracle Testing | NA | Not Applicable |
| 1.7.5.2 |  | MySQL Testing | NA | Not Applicable |
| 1.7.5.3 |  | SQL Server Testing | NA | Not Applicable |
| 1.7.5.4 |  | Testing PostgreSQL | NA | Not Applicable |
| 1.7.5.5 |  | MS Access Testing | NA | Not Applicable |
| 1.7.5.6 |  | Testing for NoSQL injection | NA | Not Applicable |
| 1.7.6 | OTG-INPVAL-006 | Testing for LDAP Injection | NA | Not Applicable |
| 1.7.7 | OTG-INPVAL-007 | Testing for ORM Injection | Yes | Tested. Not Vulnerable |
| 1.7.8 | OTG-INPVAL-008 | Testing for XML Injection | Yes | No XML Pages |
| 1.7.9 | OTG-INPVAL-009 | Testing for SSI Injection | Yes | Tested. Not Vulnerable |
| 1.7.10 | OTG-INPVAL-010 | Testing for XPath Injection | Yes | Tested. Not Vulnerable |
| 1.7.11 | OTG-INPVAL-011 | IMAP/SMTP Injection | NA | Not Applicable |
| 1.7.12 | OTG-INPVAL-012 | Testing for Code Injection | Yes | Tested. Not Vulnerable |
| 1.7.12.1 |  | Testing for Local File Inclusion | NA | Not Applicable |
| 1.7.12.2 |  | Testing for Remote File Inclusion | NA | Not Applicable |
| 1.7.13 | OTG-INPVAL-013 | Testing for Command Injection | Yes | Tested. Not Vulnerable |
| 1.7.14 | OTG-INPVAL-014 | Testing for Buffer overflow | Yes | Tested. Not Vulnerable |
| 1.7.14.1 |  | Testing for Heap overflow | Yes | Tested. Not Vulnerable |
| 1.7.14.2 |  | Testing for Stack overflow | Yes | Tested. Not Vulnerable |
| 1.7.14.3 |  | Testing for Format string | Yes | Tested. Not Vulnerable |
| 1.7.15 | OTG-INPVAL-015 | Testing for incubated vulnerabilities | Yes | Tested. Not Vulnerable |
| 1.7.16 | OTG-INPVAL-016 | Testing for HTTP Splitting/Smuggling | Yes | Tested. Not Vulnerable |
| 1.8 | **Error Handling** | | | |
| 1.8.1 | OTG-ERR-001 | Analysis of Error Codes | No | Used Custom Error Pages but not implemented properly |
| 1.8.2 | OTG-ERR-002 | Analysis of Stack Traces | Yes | Tested. Not Vulnerable |
| 1.9 | **Cryptography** | | | |
| 1.9.1 | OTG-CRYPST-001 | Testing for Weak SSL/TSL Ciphers, Insufficient Transport Layer Protection | Yes | Tested. Not Vulnerable |
| 1.9.2 | OTG-CRYPST-002 | Testing for Padding Oracle | Yes | Tested. Not Vulnerable |
| 1.9.3 | OTG-CRYPST-003 | Testing for Sensitive information sent via unencrypted channels | Yes | Tested. Not Vulnerable |
| 1.1 | **Business Logic Testing** | | | |
| 1.10.1 | OTG-BUSLOGIC-001 | Test Business Logic Data Validation | Yes | Tested. Not Vulnerable |
| 1.10.2 | OTG-BUSLOGIC-002 | Test Ability to Forge Requests | Yes | Tested. Not Vulnerable |
| 1.10.3 | OTG-BUSLOGIC-003 | Test Integrity Checks | Yes | Tested. Not Vulnerable |
| 1.10.4 | OTG-BUSLOGIC-004 | Test for Process Timing | Yes | Tested. Not Vulnerable |
| 1.10.5 | OTG-BUSLOGIC-005 | Test Number of Times a Function Can be Used Limits | Yes | Tested. Not Vulnerable |
| 1.10.6 | OTG-BUSLOGIC-006 | Testing for the Circumvention of Work Flows | Yes | Tested. Not Vulnerable |
| 1.10.7 | OTG-BUSLOGIC-007 | Test Defenses Against Application Mis-use | Yes | Tested. Not Vulnerable |
| 1.10.8 | OTG-BUSLOGIC-008 | Test Upload of Unexpected File Types | Yes | Tested. Not Vulnerable |
| 1.10.9 | OTG-BUSLOGIC-009 | Test Upload of Malicious Files | Yes | Tested. Not Vulnerable |
| 1.11 | **Client Side Testing** | | | |
| 1.11.1 | OTG-CLIENT-001 | Testing for DOM based Cross Site Scripting | Yes | Tested. Not Vulnerable |
| 1.11.2 | OTG-CLIENT-002 | Testing for JavaScript Execution | Yes | Tested. Not Vulnerable |
| 1.11.3 | OTG-CLIENT-003 | Testing for HTML Injection | Yes | Tested. Not Vulnerable |
| 1.11.4 | OTG-CLIENT-004 | Testing for Client Side URL Redirect | Yes | Tested. Not Vulnerable |
| 1.11.5 | OTG-CLIENT-005 | Testing for CSS Injection | Yes | Tested. Not Vulnerable |
| 1.11.6 | OTG-CLIENT-006 | Testing for Client Side Resource Manipulation | Yes | Tested. Not Vulnerable |
| 1.11.7 | OTG-CLIENT-007 | Test Cross Origin Resource Sharing | Yes | Tested. Not Vulnerable |
| 1.11.8 | OTG-CLIENT-008 | Testing for Cross Site Flashing | NA | Not Applicable |
| 1.11.9 | OTG-CLIENT-009 | Testing for Clickjacking | Yes | Tested. Not Vulnerable |
| 1.11.10 | OTG-CLIENT-010 | Testing WebSockets | Yes | Technology not in use |
| 1.11.11 | OTG-CLIENT-011 | Test Web Messaging | Yes | Technology not in use |
| 1.11.12 | OTG-CLIENT-012 | Test Local Storage | NA | Not Applicable |

## Network Reconnaissance

PORT STATE SERVICE

80/tcp closed http

443/tcp open https

8080/tcp open http-proxy

## Scanned Items

https://uat-psc.aponline.gov.in:8080/

https://uat-psc.aponline.gov.in:8080/Default.aspx

https://uat-psc.aponline.gov.in:8080/Default.htm

https://uat-psc.aponline.gov.in:8080/Documents

https://uat-psc.aponline.gov.in:8080/Documents/04\_2001\_JuniorLecturer

https://uat-psc.aponline.gov.in:8080/Documents/09\_2017\_CAS

https://uat-psc.aponline.gov.in:8080/Documents/101999

https://uat-psc.aponline.gov.in:8080/Documents/13Notificationattachments

https://uat-psc.aponline.gov.in:8080/Documents/18NotificationAttachments

https://uat-psc.aponline.gov.in:8080/Documents/18NotificationAttachments/Group-IICandidateBio-Data\_1.xlsx

https://uat-psc.aponline.gov.in:8080/Documents/192008

https://uat-psc.aponline.gov.in:8080/Documents/19Notification3rdSpell

https://uat-psc.aponline.gov.in:8080/Documents/19NotificationAttachments

https://uat-psc.aponline.gov.in:8080/Documents/20NotificationAttachments

https://uat-psc.aponline.gov.in:8080/Documents/21NotificationAttachments

https://uat-psc.aponline.gov.in:8080/Documents/22NotificationAttachments

https://uat-psc.aponline.gov.in:8080/Documents/26\_Notification\_Attachments

https://uat-psc.aponline.gov.in:8080/Documents/26Notificationattachments

https://uat-psc.aponline.gov.in:8080/Documents/27Notification\_Attachments

https://uat-psc.aponline.gov.in:8080/Documents/28Notification\_Attachments

https://uat-psc.aponline.gov.in:8080/Documents/32Notification\_Attachments

https://uat-psc.aponline.gov.in:8080/Documents/33NotificationAttachments

https://uat-psc.aponline.gov.in:8080/Documents/34NotificationAttachments

https://uat-psc.aponline.gov.in:8080/Documents/382016

https://uat-psc.aponline.gov.in:8080/Documents/AE

https://uat-psc.aponline.gov.in:8080/Documents/AE(Envi)

https://uat-psc.aponline.gov.in:8080/Documents/AE\_Attachments

https://uat-psc.aponline.gov.in:8080/Documents/AE\_PHME\_Attachments

https://uat-psc.aponline.gov.in:8080/Documents/AEE%20Mains%20Final%20Keys

https://uat-psc.aponline.gov.in:8080/Documents/AEE%20Mains%20Results

https://uat-psc.aponline.gov.in:8080/Documents/AEE\_Results\_PDF's

https://uat-psc.aponline.gov.in:8080/Documents/AEEAttachments

https://uat-psc.aponline.gov.in:8080/Documents/AEEDOCS27-5-2017

https://uat-psc.aponline.gov.in:8080/Documents/Annualreport

https://uat-psc.aponline.gov.in:8080/Documents/AP%20Mining%20Subordinate%20Service

https://uat-psc.aponline.gov.in:8080/Documents/APGroundWater(GeoPhysics)\_20\_2016

https://uat-psc.aponline.gov.in:8080/Documents/Assistant%20Hydrogeologist

https://uat-psc.aponline.gov.in:8080/Documents/AssistantDirectorNotifi%20No-31

https://uat-psc.aponline.gov.in:8080/Documents/AssistantHydrologist

https://uat-psc.aponline.gov.in:8080/Documents/AsstChemist

https://uat-psc.aponline.gov.in:8080/Documents/AsstProf

https://uat-psc.aponline.gov.in:8080/Documents/AsstProf/FinalKeys

https://uat-psc.aponline.gov.in:8080/Documents/AsstProf/Keys

https://uat-psc.aponline.gov.in:8080/Documents/AsstProf/Marks

https://uat-psc.aponline.gov.in:8080/Documents/AsstProf/RevisedKeys

https://uat-psc.aponline.gov.in:8080/Documents/CERTIFICATEVERIFICATIONLIST

https://uat-psc.aponline.gov.in:8080/Documents/Circulars

https://uat-psc.aponline.gov.in:8080/Documents/CivilAssistantSurgeons

https://uat-psc.aponline.gov.in:8080/Documents/DecisionDocs

https://uat-psc.aponline.gov.in:8080/Documents/DentalAsstAttachments

https://uat-psc.aponline.gov.in:8080/Documents/Deparmental

https://uat-psc.aponline.gov.in:8080/Documents/Deparmental/UdyogaSamcharam

https://uat-psc.aponline.gov.in:8080/Documents/Dept\_10\_2017\_Attachments

https://uat-psc.aponline.gov.in:8080/Documents/DLAttention

https://uat-psc.aponline.gov.in:8080/Documents/Draughtsman

https://uat-psc.aponline.gov.in:8080/Documents/Errata

https://uat-psc.aponline.gov.in:8080/Documents/EXAMSCHEDULE

https://uat-psc.aponline.gov.in:8080/Documents/GroupExams

https://uat-psc.aponline.gov.in:8080/Documents/GroupExams/101999

https://uat-psc.aponline.gov.in:8080/Documents/GroupI

https://uat-psc.aponline.gov.in:8080/Documents/GroupIII

https://uat-psc.aponline.gov.in:8080/Documents/GroupIII%20Results

https://uat-psc.aponline.gov.in:8080/Documents/HomePageDocuments

https://uat-psc.aponline.gov.in:8080/Documents/IMPOrders

https://uat-psc.aponline.gov.in:8080/Documents/InspectorofFactories

https://uat-psc.aponline.gov.in:8080/Documents/INSTRUCTIONS

https://uat-psc.aponline.gov.in:8080/Documents/INTERVIEWLIST

https://uat-psc.aponline.gov.in:8080/Documents/Judmentcopies

https://uat-psc.aponline.gov.in:8080/Documents/KEYS

https://uat-psc.aponline.gov.in:8080/Documents/KeystohostonWebsite-3rdto5thMarch2017

https://uat-psc.aponline.gov.in:8080/Documents/Keystohostonwebsite-7thto9thFeb2017

https://uat-psc.aponline.gov.in:8080/Documents/Laboratory%20Assistant

https://uat-psc.aponline.gov.in:8080/Documents/List%20of%20Rejections

https://uat-psc.aponline.gov.in:8080/Documents/LiveNotifications

https://uat-psc.aponline.gov.in:8080/Documents/Marks%20of%20all%20Candidates%20District%20wise

https://uat-psc.aponline.gov.in:8080/Documents/MARKSLIST1

https://uat-psc.aponline.gov.in:8080/Documents/MISCELLANEOUS

https://uat-psc.aponline.gov.in:8080/Documents/NominalRoll

https://uat-psc.aponline.gov.in:8080/Documents/Notifi-31\_24\_07\_2017

https://uat-psc.aponline.gov.in:8080/Documents/Notification-14-25-07-2017

https://uat-psc.aponline.gov.in:8080/Documents/Notification062016

https://uat-psc.aponline.gov.in:8080/Documents/Notification\_09\_2016

https://uat-psc.aponline.gov.in:8080/Documents/NotificationAttachments\_10

https://uat-psc.aponline.gov.in:8080/Documents/NotificationDocuments

https://uat-psc.aponline.gov.in:8080/Documents/NotificationNo24\_Attachments

https://uat-psc.aponline.gov.in:8080/Documents/NOTIFICATIONS

https://uat-psc.aponline.gov.in:8080/Documents/PresentCommission

https://uat-psc.aponline.gov.in:8080/Documents/PRESS\_RELEASES

https://uat-psc.aponline.gov.in:8080/Documents/PRESSNOTE

https://uat-psc.aponline.gov.in:8080/Documents/Prevention%20of%20Malpractices

https://uat-psc.aponline.gov.in:8080/Documents/Qualified%20Candidates%20with%20H.T%20No.District%20wise

https://uat-psc.aponline.gov.in:8080/Documents/RESULTS

https://uat-psc.aponline.gov.in:8080/Documents/RIMS

https://uat-psc.aponline.gov.in:8080/Documents/Royalty%20Inspector

https://uat-psc.aponline.gov.in:8080/Documents/RTI

https://uat-psc.aponline.gov.in:8080/Documents/SELECTIONLIST

https://uat-psc.aponline.gov.in:8080/Documents/Syllabus1

https://uat-psc.aponline.gov.in:8080/Documents/SyllabusforProficiencyTest

https://uat-psc.aponline.gov.in:8080/Documents/TechAssistAPGroundWater

https://uat-psc.aponline.gov.in:8080/Documents/TechnicalAssistantHydrology

https://uat-psc.aponline.gov.in:8080/Documents/Timetable

https://uat-psc.aponline.gov.in:8080/Documents/USERGUIDE

https://uat-psc.aponline.gov.in:8080/Documents/VenueList

https://uat-psc.aponline.gov.in:8080/Documents/Welfare%20Organiser

https://uat-psc.aponline.gov.in:8080/Documents/ZillaSainikAttachments

https://uat-psc.aponline.gov.in:8080/ErrorPages

https://uat-psc.aponline.gov.in:8080/ErrorPages/ErrorPage.aspx

https://uat-psc.aponline.gov.in:8080/ErrorPages/ErrorPage.aspx?ErrorCode=404

https://uat-psc.aponline.gov.in:8080/HomePages

https://uat-psc.aponline.gov.in:8080/HomePages/06\_SelectionList.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/09\_2016\_SupplimentaryProvisionalSelectionList.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/09\_NotificationProvisionalSelectionList.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/10\_1999NotificationAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/10\_NotificationProvisionalSelectionList.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/10Notification3rdspell%20\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/10Notification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/13Notification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/14Notification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/14SelectionNotification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/18NotificationAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/18NotificationCPTCertificates.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/18notificationCPTCorrigendum.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/18NotificationCPTResults.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/18NotificationCPTSelections.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/18NotificationGroupIIServices.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/18NotificationResultAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/18NotificationRevisedAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/18thNotification8CandidatesResultAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/19\_Notification\_Attachments\_3rdSpell.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/20SelectionNotification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/21Notification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/22Notification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/24\_NotificationAttachments\_3rdSpell.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/24\_NotificationAttachments\_4thSpell.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/24\_NotificationAttachments\_6thSpell.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/24\_NotificationAttachments\_Recruitment.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/24NotificationSelectionAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/24NotificationVerificationAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/24SupplementarySelectionattachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/26\_Notification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/26\_SelectionNotification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/26\_SelectionNotification\_Attachments\_17\_8\_2018.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/27DecisionObjections.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/27FinalKeyDecisionObjections.aspx

https://uat-psc.aponline.gov.in:8080/Homepages/27NotificationScreeningTestResults.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/27NotificationSUPPLEMENTARYResults.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/27Result\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/28Notification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/28SelectionNotification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/28SupplementaryResultNotificationAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/31Notification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/31NotificationSelectionList.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/32\_NotificationAttachments.aspx

https://uat-psc.aponline.gov.in:8080/Homepages/32Notification\_MeritMarksList.aspx

https://uat-psc.aponline.gov.in:8080/Homepages/32NotificationResults.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/32NotificationSelectionList.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/33Notification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/33SelectionNotification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/33SupplementarySelectionNotificationAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/34NotificationDecisionDocs.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/34NotificationFinalDecisionDocs.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/34ResultAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/34SelectionNotificationAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/36NotificationAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/36ResultAttachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/38Notification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/9Notification\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/Aboutus.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/AE(Envi).aspx

https://uat-psc.aponline.gov.in:8080/HomePages/AE.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/AE\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/AE\_Attachments\_11\_08\_2017.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/AE\_Attachments\_20062017.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/AE\_Attachments\_3rdSpell.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/AE\_Attachments\_PH\_11\_08\_2017.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/AE\_PHME\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/AEAttachmentsNotification\_9.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/AEE\_Attachments.aspx

https://uat-psc.aponline.gov.in:8080/HomePages/AEE\_Final\_Attachments.aspx

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https://uat-psc.aponline.gov.in:8080/HomePages/AEEInformation.aspx

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https://uat-psc.aponline.gov.in:8080/OTPR/(S(h4kh111xns5rrleu03x35v5o))/ErrorPages/Oops.aspx

https://uat-psc.aponline.gov.in:8080/OTPR/(S(z5g2vxfhkitppzikpofqja2f))/ErrorPages/404.aspx?aspxerrorpath=/OTPR/WebResource.axd

https://uat-psc.aponline.gov.in:8080/OTPR/ErrorPages

https://uat-psc.aponline.gov.in:8080/OTPR/ErrorPages/404.aspx

https://uat-psc.aponline.gov.in:8080/OTPR/ErrorPages/404.aspx?aspxerrorpath=/OTPR/ScriptResource.axd

https://uat-psc.aponline.gov.in:8080/OTPR/ErrorPages/404.aspx?aspxerrorpath=/OTPR/WebResource.axd

https://uat-psc.aponline.gov.in:8080/OTPR/ScriptResource.axd

https://uat-psc.aponline.gov.in:8080/OTPR/UI

https://uat-psc.aponline.gov.in:8080/OTPR/UI/RegistrationForms

https://uat-psc.aponline.gov.in:8080/OTPR/UI/RegistrationForms/OneTimeRegistration\_New.aspx

https://uat-psc.aponline.gov.in:8080/OTPR/WebResource.axd

https://uat-psc.aponline.gov.in:8080/OTPR/WebResource.axd?d=LboaCRG6CfYipY2vMuehxjzlJYH2umBt1xZM6VNcii0Q6VfrQm371EivxW-XdK7-IDvNaL0h5kxOX2p4KB8LhWakdrc1&t=636934633200000000

https://uat-psc.aponline.gov.in:8080/Results

https://uat-psc.aponline.gov.in:8080/Results/Department\_Results\_May\_2017

https://uat-psc.aponline.gov.in:8080/Results/Department\_Results\_May\_2018

https://uat-psc.aponline.gov.in:8080/Results/Department\_Results\_Nov\_2017

https://uat-psc.aponline.gov.in:8080/Results/Departmental-Nov-2016

https://uat-psc.aponline.gov.in:8080/ScriptResource.axd

https://uat-psc.aponline.gov.in:8080/SignOut.aspx

https://uat-psc.aponline.gov.in:8080/UI

https://uat-psc.aponline.gov.in:8080/UI/AEE

https://uat-psc.aponline.gov.in:8080/UI/AEE/AEEReceiptForm.aspx

https://uat-psc.aponline.gov.in:8080/UI/AEE/AEEReceiptForm.aspx?AEERefNo=yW4A%2fTqWuyAyEApNU0%2fzJ1wBGsJLoEkk%2fJpobmSKc10%3d

https://uat-psc.aponline.gov.in:8080/UI/AEE/AEEReceiptForm.aspx?AEERefNo=yW4A/TqWuyAyEApNU0/zJ1wBGsJLoEkk/JpobmSKc10=

https://uat-psc.aponline.gov.in:8080/UI/CandidateLoginPages

https://uat-psc.aponline.gov.in:8080/UI/CandidateLoginPages/ForgotPasswordNew1.aspx

https://uat-psc.aponline.gov.in:8080/UI/CandidateLoginPages/Grp2MainsResults.aspx

https://uat-psc.aponline.gov.in:8080/UI/CandidateLoginPages/LoginNew.aspx

https://uat-psc.aponline.gov.in:8080/UI/CandidateLoginPages/PanchayatRajSecretryNotfnNo29.aspx

https://uat-psc.aponline.gov.in:8080/UI/CandidateLoginPages/SignOut.aspx

https://uat-psc.aponline.gov.in:8080/UI/CandidateLoginPages/UserRegistration.aspx

https://uat-psc.aponline.gov.in:8080/UI/GeneralRecruitment

https://uat-psc.aponline.gov.in:8080/UI/GeneralRecruitment/AppliedNotificationsReport.aspx

https://uat-psc.aponline.gov.in:8080/UI/GeneralRecruitment/PanchayatRaj\_DL\_OTPR\_TAGGING.aspx

https://uat-psc.aponline.gov.in:8080/UI/GeneralRecruitment/ReprintAEEReceipt.aspx

https://uat-psc.aponline.gov.in:8080/UI/GeneralRecruitment/ReprintReceiptForm.aspx

https://uat-psc.aponline.gov.in:8080/UI/GroupExams

https://uat-psc.aponline.gov.in:8080/UI/GroupExams/GroupsPostsReceiptForm.aspx

https://uat-psc.aponline.gov.in:8080/UI/GroupExams/RefundRequestPage.aspx

https://uat-psc.aponline.gov.in:8080/UI/HallTickets

https://uat-psc.aponline.gov.in:8080/UI/HallTickets/AppliedNotfnListForHallticket.aspx

https://uat-psc.aponline.gov.in:8080/UI/HallTickets/DepartmentalExams\_May\_2018\_ResponseSheets.aspx

https://uat-psc.aponline.gov.in:8080/UI/HallTickets/DownloadAEEMainsHallTicket\_56757.aspx

https://uat-psc.aponline.gov.in:8080/UI/HallTickets/GenerateHallTicket.aspx

https://uat-psc.aponline.gov.in:8080/UI/HallTickets/GenerateHallticket\_DeptMay2017.aspx

https://uat-psc.aponline.gov.in:8080/UI/HallTickets/GenerateHallticket\_DeptMay2018.aspx

https://uat-psc.aponline.gov.in:8080/UI/HallTickets/GenerateHallticket\_DeptNov2017.aspx

https://uat-psc.aponline.gov.in:8080/UI/HallTickets/GenerateHallticket\_DeptNOV2018.aspx

https://uat-psc.aponline.gov.in:8080/UI/HallTickets/HallTickets.aspx

https://uat-psc.aponline.gov.in:8080/UI/LoginPages

https://uat-psc.aponline.gov.in:8080/UI/LoginPages/NotificationwisePaymentStatusReport.aspx

https://uat-psc.aponline.gov.in:8080/UI/RegistrationForms

https://uat-psc.aponline.gov.in:8080/UI/RegistrationForms/DepartmentOneTimeRegistration.aspx

https://uat-psc.aponline.gov.in:8080/UI/RegistrationForms/DisplayPhotos\_Signatures.aspx

https://uat-psc.aponline.gov.in:8080/UI/RegistrationForms/ForgotOTPR.aspx

https://uat-psc.aponline.gov.in:8080/UI/RegistrationForms/GenerateCaptcha.aspx

https://uat-psc.aponline.gov.in:8080/UI/RegistrationForms/ObjectionsinDepartmentalExam.aspx

https://uat-psc.aponline.gov.in:8080/UI/RegistrationForms/OtherEmployeeOneTimeRegistration.aspx

https://uat-psc.aponline.gov.in:8080/UI/RegistrationForms/PrintDepartmentOneTimeRegistration.aspx

https://uat-psc.aponline.gov.in:8080/UI/RegistrationForms/RegistrationTypes\_New.aspx

https://uat-psc.aponline.gov.in:8080/UI/Reprints

https://uat-psc.aponline.gov.in:8080/UI/Reprints/DepartmentDetailsReprint.aspx

https://uat-psc.aponline.gov.in:8080/UI/Reprints/GroupsReprintReceiptForm.aspx

https://uat-psc.aponline.gov.in:8080/UI/Reprints/OthersReprint.aspx

https://uat-psc.aponline.gov.in:8080/UI/Reprints/RePrintDirectRecruitmentOTPR.aspx

https://uat-psc.aponline.gov.in:8080/UI/UserManuals

https://uat-psc.aponline.gov.in:8080/UI/UserManuals/AE%20Key

https://uat-psc.aponline.gov.in:8080/UI/UserManuals/AE-Notifications

https://uat-psc.aponline.gov.in:8080/UI/UserManuals/AEE-Notifications

https://uat-psc.aponline.gov.in:8080/UI/UserManuals/AEERESULTS

https://uat-psc.aponline.gov.in:8080/UI/UserManuals/APPSC%20FTP%20DATA%209th%20Feb%202017

https://uat-psc.aponline.gov.in:8080/UI/UserManuals/Departmental

https://uat-psc.aponline.gov.in:8080/UI/UserManuals/Group-I

https://uat-psc.aponline.gov.in:8080/UI/UserManuals/Group-II

https://uat-psc.aponline.gov.in:8080/UI/UserManuals/LatestNotifications

https://uat-psc.aponline.gov.in:8080/UI/UserManuals/LatestNotifications/Syllabus

https://uat-psc.aponline.gov.in:8080/UI/UserManuals/Notfn%2026%20Keys

https://uat-psc.aponline.gov.in:8080/WebResource.axd

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