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| TOKEN BASED VERIFICATION  Technical Document |
| Version <1.0> |
| **Document Prepared by:** |
| **Nikhil Bharadwaj Ramashasthri**  Table of Contents  [1 Introduction 3](#_Toc496259615)  [1.1 Document Purpose 3](#_Toc496259616)  [1.2 Technologies used 3](#_Toc496259617)  [2 Workflow 3](#_Toc496259618)  [2.1 Description: 3](#_Toc496259619)  [2.2 Token Create Service: 3](#_Toc496259620)  [2.3 Token Validate Service: 4](#_Toc496259621)  [3 Conclusion 6](#_Toc496259622) IntroductionDocument Purpose This document is intended to capture the detail level technical details related to token based verification. Technologies used  |  |  | | --- | --- | | Java 8 | Spring 4.0.5 | | Spring Web MVC 4.0.5 | JSON | |  | Wildfly 10.0 (Application Server) | | Git (Source Control Tool) | Eclipse | | Postman (REST Client for Testing) | Junit |  WorkflowDescription: This process/workflow explains how a standalone application supports token create and token validate functionality and its workflow. Token Create Service: Token create is GET service method which takes “Payload” and “LifeTime” as query parameters to create token and save the details to database respectively.   1. **Payload:** It is actual data which user wants to access with some permission levels. 2. **Life-Time:** User configuration of how much life time a token should be valid in order to access payload.   The detail workflow is explained with sequence diagram as follows:C:\Users\nramashasthri\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Token Create service.png Token Validate Service: Once token with certain payload has been created with or without life time it needs validation, hence this service deals with validation part of the token given by client/user.  The detail workflow is explained with sequence diagram as follows:  C:\Users\nramashasthri\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Token Validate.png   1. **Validate Token Method:** This method is key method to validate the token to return payload. The workflow is defined as follows:C:\Users\nramashasthri\AppData\Local\Microsoft\Windows\INetCache\Content.Word\validateTokenMethod.png  REST service: The following details are related REST API of token based authentication standalone application:  **REST URL**: {host}:{port}/ tokenAuthentication/tokenCreate/?payLoad={PAYLOAD} &lifeTime={LIFETIME}  **REST URL**: {host}:{port}/ tokenAuthentication/tokenValidate/{TOKEN}  **Content Type**: Text  **NOTE:** lifetime is nullable. payload is mandatory parameter. Conclusion The above setup helps in gaining a workflow with provides token by storing payload and to access the pay load token validation is needed. |
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