

A WEB BASED API FOR ONLINE ASSESSMENT

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SYNOPSIS

Online assessment using web technologies allows users to interact and collaborate with each other to enhance learning, including discussion, reflection, self and peer review, and group work. It serves as the platform which eases recruitment of employees for respective companies at the initial level and can also be used to track the progress of employees in the company.

The interface is designed in such a way that it enables candidates and company or university to have efficient and user-friendly interaction. Candidates must register on the site and enter the required details which allows them to take assessments based on their choice. Administrator uploads the questions on different topics and site gets updated on regular basis. The application is designed using Core Java and latest technologies like AngularJS which modifies DOM directly and makes it highly responsive instead of modifying inner HTML code. Project has been updated to MAVEN which helps in obtaining package dependencies easily by building WAR files which speeds testing and helps in maintaining standard directory structure. JSON Web Tokens(JWT) based Authentication is a standard which helps in secure transmission of information between parties as a JSON Object. This mechanism is stateless authentication which uses HMAC algorithm which involves cryptographic hash function.

Spring MVC Framework has been used which achieves loose coupling through Dependency Injection and it also provides extensible JDBC abstraction framework. RESTful API allows manipulation of objects through URL which acts as the sole identifier of every resource which makes easy access of application.

Signature of Guide