**Test Plan**

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Test Type & Test Type ID: White Box - 01

**Requirement Addressed**

Assess the initialization and interaction methods with MongoDB Cloud.

**Objective**

To ensure that the database connector variables are correctly initialized and that the methods for interacting with MongoDB Cloud operate seamlessly, maintaining data integrity and functionality.

**Test cases**

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| **Description** | **Input field** | **Input value** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| Ensure that the database connector variables are initialized as protected members. | \_\_init\_\_() | self | Connector variables are initialized as protected members without errors, and MongoDB Cloud connection is established successfully. | Database connector variable initialized without errors. | Pass |
| Test the update\_user\_session\_data() method for correct data insertion into MongoDB Cloud. | update\_user\_session\_data() | self | Data is correctly inserted into MongoDB Cloud without errors. | Data is correctly inserted into MongoDB Cloud without errors. | Pass |
| Verify the data retrieval functionality from MongoDB Cloud. | find\_one() | * {'user\_id': self.current\_user, 'sessions.session\_id': self.date\_today} * {'user\_id': login\_textfield\_input, 'password': login\_passfield\_input} | Correct data is retrieved from MongoDB Cloud as per the query parameters. | Correct data is retrieved from MongoDB Cloud as per the query parameters. | Pass |
| Ensure that data updates in MongoDB Cloud are reflected in the application. | update\_one() | Updated user session data | Updated data is correctly reflected in MongoDB Cloud and the application. | Updated data is correctly reflected in MongoDB Cloud and the application. | Pass |
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