**Database Test Scripts**

**NASA EVA Gamification**

*Group 3*

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| **Version Number** | **Description of Change** | **Author** | **Date** |
| 1.0 | Initial Creation of Document | Okechukwu Ogudebe | 03/03/2018 |
| 1.1 | Revised Document for Formatting | Michael Salgo | 03/15/2018 |

# Test Script < Database-03 >

## Identification

Unique Identifier of Script: Database-03

Test Script Version: Version 03

Author of Test Script:

Test Object: Database

## Preparation of the environment

Before this script is loaded the following actions should be taken to meet the desired environment conditions.

* MariaDB / MySQL should be correctly configured
* Build the game’s database with real “functions”
* Load the database
* Configure the database to work correctly on the browser and testing tools
* User email should be verified

A verified user profile was used while accessing the database. The user profile will try to insert dummy data in the various gamification\_badges table fields. Test SQL queries should be successful since the table exists in our database.

## Test Script

Tester: Okechukwu Ogudebe

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  | **Logging** | | |
| **Step#** | **Action to take** | **Expected Result** | **Actual Result** | **Pass/Fail** | **Remarks** |
| 1 | Check that the table gamification\_badges does not exist | gamification\_badges table should exist in our database | gamification\_badges table exists in the database | Pass | User progress and details will be stored in the gamification\_badges table. Since the table exists, our verified user can track their progress |
| 2 | Check that the table gamification\_badges has been created by the SQL script | Gamification\_badges should have been created by the SQL script | gamification\_badges has been created by the SQL script | Pass | The SQL script successfully created the table gamification\_badges |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3 | Check that the field user\_id is spelled correctly, is all lowercase, is of type int(10), and does not allow nulls | The field user\_id should be spelled correctly, is all lowercase, is of type int(10), and does not allow nulls | user\_id field is spelled correctly, is all lowercase, is of type int(10), and does not allow nulls | Pass | The field user\_id conforms to our requirements and our verified user ID was successfully recorded |
| 4 | Check that the field badge\_tag is spelled correctly, is all lowercase, is of type varchar(255), and does not allow nulls | The field badge\_tag should be spelled correctly, is all lowercase, is of type varchar(255), and does not allow nulls | badge\_tag field is spelled correctly, is all lowercase, is of type varchar(255), and does not allow nulls | Pass | badge\_tag field has satisfied all its requirements. The SQL script successfully created badge\_tag field |
| 5 | Check that the field badge\_rank is spelled correctly, is all lowercase, is of type varchar(255) ), and does not allow nulls | The field badge\_rank should be spelled correctly, is all lowercase, is of type varchar(255) ), and does not allow nulls | field badge\_rank field is spelled correctly, is all lowercase, is of type varchar(255) ), and does not allow nulls | Pass | The SQL script created badge\_rank in accordance with our requirement |
| 6 | Check that the field date\_badge\_earned is spelled correctly, is all lowercase, is of type varbinary(14) and allows nulls | date\_badge\_earned should be spelled correctly, is all lowercase, is of type varbinary(14) and allows nulls | Field date\_badge\_earned was spelled correctly, is all lowercase, is of type varbinary(14) and allows nulls | Pass | date\_badge\_earned was successfully created and meets our requirements |
| 7 | Check that the primary key is comprised of user\_id, badge\_tag, and badge\_rank | gamification\_badges table primary key should be comprised of user\_id, badge\_tag, and badge\_rank | The primary key is comprised of user\_id, badge\_tag, and badge\_rank | Pass | Primary keys prevent instances of duplicate data. The SQL script successfully gave user\_id, badge\_tag, and badge\_rank the primary key attribute |
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