**Global Village Test Plan**

GV TP\_1.0

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# 

# Test Plan Identifier:

Test Plan Name : GLBL\_VLG\_1

Version Author : SQA\_Team

Revision History : N/A

Version : V1.0

# References

This test plan for the Global Village website is developed on some supporting documents. Refer to the actual version of the document as sorted in the configuration management system. Here is the list of those reference documents.

* Project Plan
* Global village student flow (UI/UX)
* Global village teacher flow (UI/UX)
* Detailed design documents
* Video and Audio clips
* Test plan template IEEE- 829

For this plan, we followed IEEE-829 format and the software requirement specification document.

# Introduction

My Learning 101 is an e-learning platform designed for students of the UK education system. Here students of different vital stages can access the contents of all exam boards. Students can also attempt interactive quizzes while they are going through each topic. The response to these quizzes will be mark ed by the system and in some cases by teachers.

**Main Entities :** Student, Teacher, Parent, School admin, Super Admin



## ***Test Levels:***

In Scope:

* Functional Testing
  + Unit Testing
  + Integration Testing
  + Regression Testing
  + Sanity testing
  + Smoke testing
* Cross-browser Testing (check whether the system is supported in every browser)
* Database Testing.
* API Testing
* Non functional testing
  + Check number of users at a time login
  + Check response time for a given load

# Test Items

## For Super Admin:

* Dashboard
* Class
* Subject
* Unit
* Modules
* Topic
* Additional Content
* School
* Admin
* Teacher
* Student
* Parent
* Core skills
* Competitions
* Extra-curricular activities

## For School Admin

* Dashboard
* Class
* Additional content
* Teacher
* Student
* parent

## For Teacher:

* Login
* Home
* My class
* Individual student profile
* Interactive subject map
* Core Skills
* Learning Page/Content page
* Quiz page

## For student:

* Login
* Home
* Dashboard
* Dropdown Menu
* Interactive Subject map
* Interactive Subject map one topic
* Module Index – Topic & Additional Content
* Learning page/ Content page
* Quiz page
* Additional Content
* My task
* Individual student Profile
* Support and FAQ
* About us
* Contacts
* Legal
* Extra-Curricular Activities

## For parent:

* Home
* Login
* Profile > Core Skills , Child Performance, Subjects, Extra Curricular Activities, Competitions
* Subject > Interactive Subject maps
* Module > Topic > Learning Page
* Quiz
* Additional Content

# Features To Be Tested

This project will be following agile methodology and work will be updated based on weekly iteration. The work is distributed on and will be followed according to requirement-based strategy specified in detail in this test plan. Each feature will be tested separately and along with each other after each phase and reports should be delivered according to the schedule. Test Cases should be created during system testing. Testing methodologies (In scope/Out Scope) are given below:

## Features to be tested including the followings coverage

## UI Testing

### As a student

* Home page
* Login page
* Dashboard page
* Dashboard -> Subjects
* Home -> My tasks
* Home -> My Profile
* Home -> Support and FAQ
* Home -> About us
* Home -> Contacts
* Home -> Legal
* Home -> Extra Curricular

### As a teacher

* Home page
* Login page
* My Classes
* Individual student profile
* Home -> Subjects
* Home -> Core skills
* Home -> Subjects -> Particular Subject -> Chapters -> Quiz

## Functional Testing

### School Admin

* Create Class
* Add single student
* Add bulk student from dataset csv
* Set student status active/inactive
* Add additional content
* Add teacher
* Set teacher status active/inactive
* Add Parent
* View from dashboard total student/teacher/parent numbers
* View from dashboard average per subject marks
* Login to the application as a School Admin
* Check logout

### Teacher

* Add quiz
* Add subject
* Check subject can be filtered by education board
* Search subject by code & name
* Add unit under subject
* Check unit can be filtered by name, year & subject code
* View subject modules & module chapters
* Check classes
* View dashboard all contents
* Add task to topic under modules
* View all student list from my class
* View individual student profile from student list under my class
* View result graph of a student
* View subject wise performance of a student
* Add additional content
* View all additional content list
* View other teachers additional content
* Login to the application as a Teacher
* Check logout

### Parent

* View child password change request
* Can change child password request
* View child student profile
* Login to the application as a Parent
* Check logout

### Student

* Choose subjects
* Choose subject wise modules
* Choose key stage years, exam board
* Choose subject wise additional content
* Choose My Tasks-pending, expired, complete
* Check student profile
* View Progress report
* View additional content
* View & add extra curricular activities
* Perform Quiz
* Apply password change from forgot password
* Login as a student
* Check logout

### Super Admin

* Check support & FAQ
* Check about us
* Check contacts
* Add extra curricular activities
* Check advance search
* Check core skills
* As an admin add school
* Check list of schools & search school by name and filter by area
* Add & view additional content
* Login as a super Admin
* Check logout

## Features Not to Be Tested

* Mobile application through a mobile device will not be tested

# Approach

Tests will be conducted per the documented test cases stored in excel. The test manager will create test runs for each tester. The tester will execute the tests & make a test case excel file and mark each case as Pass / Fail / Skip. The tester should leave notes on actual results and any other relevant details when possible. When tests are marked as Fail, bug reports need to create for the bug reporting in excel or Jira.

Once complete, the test manager should review the test case reports and report back to the team accordingly.

## Test Cases Preparation & Execution:

* QA will be preparing test cases. This will cover all scenarios for requirements.
* Peer review will be conducted from time to time for test cases and test matrix by QA Lead.
* Respective Author of Test Case and Test Matrix will provide comment or suggestions on test cases and test coverage if needed.
* Author will re-work on the suggestions/improvements that has been given on Test Cases/Matrix and will send for approval. Re-worked improvements will be reviewed and approved by reviewer.
* Respective QA will execute Test Cases on test site based on designed scenarios, test cases and Test data.
* (Actual Result with Expected Result-> Pass/Fail) Test result will be updated in test case document.

## Defect Logging and Reporting:

* QA will log the defect/bugs in prospective management tool. After this, QA will inform the respective developer about the defect/bugs that has been logged.

*Retesting:*

* Respective QA will Retesting for fixed bugs after it is resolved by respective developer. Bug/defect status will be updated accordingly. In certain cases, if its required then regression testing will be done.

## Deployment/Delivery:

* Once all bugs/ defect that has been reported after complete testing are fixed, afterwards if no other bugs are found, report will be deployed to test site by PM.
* Once QA is done with the round of testing on test site and if it is required Report will be delivered along with sample output by email to the respective team member.
* QA will hand over the hard copy of delivery documents to the respective developer.

# Item Pass/Fail Criteria

All core functionality of the systems should function as expected and outlined in the individual test cases. There must be no critical defects found and an end user must be able to use the application successfully without any errors. 95% of all test cases should pass and no failed cases should be crucial to the end-user’s ability to use the application.

## Suspension Criteria and Resumption Requirements

### Suspension Criteria:

* Testing should be paused immediately if either system experiences login issues or failure in any basic CRUD (Create, Read, Update and Delete) actions.
* Server issues.
* Significant number of high and critical issues still open at or near End-to-End testing phase.
* New feature/functionality added during the testing phase.

### Resumption Requirements:

* Some buffer has been added to the schedule for contingencies, although not as much as best practice advise.
* Server should be in check/renewed from time to time.
* Analysis of the open issues with other test groups, development, and product support to determine which issues can be deferred.
* Extend the resting cycle or remove test requirements/ expectations.

# Test Deliverables:

* Test plan
* Test design specifications.
* Test case specifications
* Test procedure specifications
* Test item transmittal reports
* Test logs
* Test Incident Reports
* Test Summary reports
* Test Incident reports

# Test Tasks

The following activities must be completed:

* Test plan prepared.
* Functional specifications written and delivered to the testing team
* Environment should be ready for testing
* Perform the tests.
* Bug reporting
* Prepare test/bug summary report.

# Environmental Needs

* Good configure hardware
* Test Data- Boundary value/equivalence partitioning, dataset csv
* Java version 8
* Tools- Microsoft office, Jmeter, Postman, Eclipse/Intellij Idea, Selenium, testng
* Communications- Zoom
* Database
* Network

| **Project Information** | **Date** |
| --- | --- |
| Project Authorization | N/A |
| Project Plan | N/A |
| Quality Assurance Plan | N/A |
| Configuration Management Plan | N/A |

## 1.) Tools

| **Process** | **Tool** |
| --- | --- |
| Test Case creation | Microsoft Excel |
| Test Case Tracking | Microsoft Excel |
| Test Case Execution | Manual, Automation |
| Test Case Management | Microsoft Excel |
| Defect Management | Jira (if any other requirement) |
| Test Reporting | Microsoft Excel & Jira (if any other requirement) |
| API Testing | Postman |
| Web automation/regression testing | selenium |

## 2.) Resources

| Description | Tool |
| --- | --- |
| Need a Database server which install MySQL server Web server which install Apache Server | Server |
| Setup a LAN Gigabit and 1 internet line with the speed at least 5 Mb/s | Network |
| Windows 10, Ram 4GB, CPU 3.4GHZ | Computer |

## 3.) Configuration Management: GitHub

## 4.) Test Environment:

* Support level (browsers)-
* Windows 10: Edge, Chrome (latest), Firefox (latest), Safari (latest)
* Mac OS X: Chrome (latest), Firefox (latest), Safari (latest)

# Responsibilities

| Role: | Name & Information: | Responsibilities |
| --- | --- | --- |
| Project Manager |  | 1. The primary contact for the development and QA team.  2. Participate in Test Scenarios.  3. Participate in Test Cases review.  4. Responsible for Project schedule and the overall success of the project  5. Verify sign Off on Requirements, Test Scenarios, Test Cases. |
| QA Lead |  | 1. Participation in the project plan creation/update process.  2. Planning and organization of test process for the release.  3. Coordinate with QA analysts/engineers on any issues/problems encountered during testing.  4. Report progress on work assignments to the PM  5. Monitor quality metrics and performance throughout each testing phase.  6. Monitor QA burn down rate and status. |
| QA/Tester |  | 1. Understand the features requirements.  2. Writing and executing Test cases.  3. Preparing RTM  4. Reviewing Test cases, RTM with PM, QA Lead  5. Preparation of Test Data  6. Log in Defects and keep tracking.  7. Retesting and regression testing  8. Bug Review meeting  9. Provide and monitor Testing Schedule to team members.  10. Coordinate with QA Lead for any issues or problems encountered during test preparation/execution/defect handling. |

# Staffing and Training Needs

Identify all critical training requirements and concerns.

* Automation training for regression testing
* Jmeter for performance testing
* Testing procedures/schedule

# Schedule:

Testing will take place as per project manager’s decision

| Task Name | Start | Finish | Done BY | Estimated Time |
| --- | --- | --- | --- | --- |
| Test Planning | N/A | N/A | N/A | N/A |
| Review Requirements documents | N/A | N/A | N/A | N/A |
| Create test basis | N/A | N/A | N/A | N/A |
| Staff and train new test resources |  |  | N/A | N/A |
| First deploy to QA test environment | N/A | N/A | N/A | N/A |
| Functional testing:  Iteration 1 | N/A | N/A | N/A | N/A |
| Iteration 2 deploy to QA test environment | N/A | N/A | N/A | N/A |
| Functional testing – Iteration 2 | N/A | N/A | N/A |  |
| System testing | N/A | N/A | N/A | N/A |
| Regression testing | N/A | N/A | N/A | N/A |
| UAT | N/A | N/A | N/A | N/A |
| Resolution of final defects and final build testing | N/A | N/A | N/A |  |
| Deploy to Staging environment | N/A | N/A | **Future work** |  |
| Performance testing | N/A | N/A |  | N/A |
| Release to Production | N/A | N/A | **Future work** |  |

# Risks and Contingencies

* If the first round of testing is not completed within 1 week, it could delay bug fixes and final testing. If this happens, UAT would be pushed back and eventual affect the launch date.
* If scope of the project is changed, it will interrupt the development phase along with testing phase.
* If the acceptable bugs will be increased.

# Approvals

| **Approved By** | **Approval Tittle** | **Date** | **Attachment** |
| --- | --- | --- | --- |
|  | Product Manager |  |  |
|  | QA Lead |  |  |

**References**

Global village documentary

Global village student (UI) flow

Global village teacher (UI) flow

Global village software requirement specification(srs) docs