# Test Plan

## Test Plan Identifier

Global\_Medical\_System, Version 1.0

## Test Items

* Only valid user can login.
* All time running system.
* Doctor can view patient information.
* Doctor can update profile.
* Doctor can view appointment.
* Doctor can give prescription.
* Patient can view doctor information.
* Patient can search doctor.
* Search pharmacy.
* Pharmacist can update pharmacy information.
* Input medicine in inventory.
* Sale medicine.
* Make order.
* Company can view order.
* Update company information.

## Features not to be tested

* Doctor can view statistical view.
* Doctor can update reminder setting.
* Pharmacist can update reminder setting.
* Pharmacist can update visual setting.
* Specialist doctor information display.
* Doctor can delete schedule.

## Software risk issues

* 24 Hours per week service.
* Real time access of user is a must case.
* All database servers and web servers must be aligned with same network.
* The doctor appointment function should be tested it is more than important.
* Check of all Third-Party Delivery product.
* Checking the Most Complex Function.
* New version of product should be highly risked to match with older one.
* Poorly documented modules or change requests.

There are some inherent software risks such as complexity; these need to be identified.

* Whole doctor appointment Safety issue.
* Whole database safety issue.
* Real time Access of Client is big risk issue.
* Government regulations and rules.
* Another key area of risk is a misunderstanding of the original.

## Item Pass/Fail criteria

Tests executed on components only pass when they satisfy the signatures, constraints, and interfaces dictated by the Object Design Specification for that component. This includes positive tests, negative and stress tests, and boundary tests.

## Integration Pass/Fail criteria:

Tests executed on integrated components only pass when they satisfy the signatures, constraints, and interfaces dictated by both the object design specification and the system architecture specification. This includes positive tests, negative and stress tests, boundary conditions, and tests that explicitly manipulate the interface environment (such as the physical connection to the database server).

If a test exhibits a product failure to meet the objectives of both the object design specification and the system architecture specification, it will fail and a defect/issue will be reported in the defect tracking system for review by the triage team.

## System Pass/Fail criteria:

Tests executed against the system use the functional requirements, on-functional requirements, and use cases as the oracle to determine pass or fail.

If a test exhibits a product failure to meet the objectives of any of the functional requirements, non-functional requirements, or the use cases, it will fail and a defect/issue will be reported in the defect tracking system for review by the triage team.

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| **Project Name: Global medical System** | | | **Test Designed by:** Ashiqur Rahaman | | |
| **Test Case ID:** GMS\_10 | | | **Test Designed date:** 18/8/2017 | | |
| **Test Priority (Low, Medium, High):** High | | | **Test Executed by:** Shohrab Hossen | | |
| **Module Name: Global medical System** login session | | | **Test Execution date:** 18/8/2017 | | |
| **Test Title:** verify login with valid username and password | | |  | | |
| **Description:** Test the GMS website login page | | |  | | |
| **Precondition:** user has valid username and password  **Dependencies:** Database has to be complete | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Go to the GMS site 2. Enter valid username 3. Enter valid password 4. Click Login button | Username: Shohrab Password: 553434 | User should be able to login into the application | | User can successfully login | Pass |
| **Post Condition:** User is validated with database and successfully login to account. The account session details are logged in the database | | | | | |

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| **Project Name: Global medical System** | | | **Test Designed by:** Ashiqur Rahaman | | |
| **Test Case ID:** GMS\_11 | | | **Test Designed date:** 18/8/2017 | | |
| **Test Priority (Low, Medium, High):** Medium | | | **Test Executed by:** Shohrab Hossen | | |
| **Module Name:** All time running system | | | **Test Execution date:** 18/8/2017 | | |
| **Test Title:** verify with time 24/7 | | |  | | |
| **Description:** Test the GMS website is available all time | | |  | | |
| **Precondition:** System to be stable  **Dependencies:** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Go to the GMS site 2. Test 24/7 | Request and response | User should be able to use system all time | | System has to be stable | Pass |
| **Post Condition:** Test website for 24/7. The site operation can handle all requests. | | | | | |

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| **Project Name: Global medical System** | | | **Test Designed by:** Ashiqur Rahaman | | |
| **Test Case ID:** GMS\_12 | | | **Test Designed date:** 18/8/2017 | | |
| **Test Priority (Low, Medium, High):** Medium | | | **Test Executed by:** Shohrab Hossen | | |
| **Module Name:** Doctor can view patient information | | | **Test Execution date:** 18/8/2017 | | |
| **Test Title:** Patient information view and give appointment | | |  | | |
| **Description:** Doctor successfully give appointment | | |  | | |
| **Precondition:** Doctor and patient database should be ready.  **Dependencies:** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Go to the GMS site 2. Place request for appointment. | Doctor can view patient information. | Doctor successfully can view patient | | Doctor prescribe patient | Pass |
| **Post Condition:** patient successfully view patient information and give appointment. | | | | | |

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| **Project Name: Global medical System** | | | **Test Designed by:** Ashiqur Rahaman | | |
| **Test Case ID:** GMS\_13 | | | **Test Designed date:** 18/8/2017 | | |
| **Test Priority (Low, Medium, High):** Medium | | | **Test Executed by:** Shohrab Hossen | | |
| **Module Name:** Doctor can update profile | | | **Test Execution date:** 18/8/2017 | | |
| **Test Title:** Doctor can update profile | | |  | | |
| **Description:** Doctor can edit or delete profile | | |  | | |
| **Precondition:** Doctor profile has to be ready.  **Dependencies:** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Go to the GMS site 2. Login as a doctor | Doctor can update his profile. | Doctor successfully change profile info. | | Doctor update profile | Pass |
| **Post Condition:** Doctor successfully update profile and delete information. | | | | | |

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| **Project Name: Global medical System** | | | **Test Designed by:** Ashiqur Rahaman | | |
| **Test Case ID:** GMS\_14 | | | **Test Designed date:** 18/8/2017 | | |
| **Test Priority (Low, Medium, High):** Medium | | | **Test Executed by:** Shohrab Hossen | | |
| **Module Name:** Input medicine in inventory | | | **Test Execution date:** 18/8/2017 | | |
| **Test Title:** Medicine inventory show currant medicine | | |  | | |
| **Description:** Pharmacy can input inventory. | | |  | | |
| **Precondition:** pharmacy database has to be ready.  **Dependencies:** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Go to the GMS site 2. Login as a pharmacist | Input medicine in inventory. | Pharmacist successfully adds medicine in inventory. | | Doctor update profile | Pass |
| **Post Condition:** A pharmacist can input medicine in inventory. | | | | | |

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| **Project Name: Global medical System** | | | **Test Designed by:** Ashiqur Rahaman | | |
| **Test Case ID:** GMS\_15 | | | **Test Designed date:** 18/8/2017 | | |
| **Test Priority (Low, Medium, High):** Medium | | | **Test Executed by:** Shohrab Hossen | | |
| **Module Name:** Sale medicine | | | **Test Execution date:** 18/8/2017 | | |
| **Test Title:** Sale medicine | | |  | | |
| **Description:** Pharmacy can medicine. | | |  | | |
| **Precondition:** pharmacy database has to be ready.  **Dependencies:** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Go to the GMS site 2. Login as a pharmacist | Sell medicine. | Pharmacist successfully sells medicine. | | Sell medicine | Pass |
| **Post Condition:** A pharmacist can sell medicine. | | | | | |

## Test Deliverables

* Test plan.
* Test case.
* Test script.
* Execution log.
* Defect log.
* Summary Report.
* Bug report.

## Staffing and Training needs

This section outlines show how to approach staffing and training the test roles forth project. For this project and overall the test planning how many staff is needed and how they will work is discussed in this section.

* Training is needed on the whole system for staffs.
* Special training for new arrival tester.
* Divide the system testing among tester.
* Training on the testing tools.

Section 4 and 15 also affect this section. Who, which part and how is to be tested the whole system is discussed here.

## Responsibilities

* Test Manager
  + Responsible for finding and training the test resources.
* Test Leads
  + Responsible for the process being used for this project.
  + must be trained on the test specification format utilized.
  + keep tracks of the defect/issue tracking system.
* Component Testers
  + Works in SQL and Java.
  + Must be familiar with NetBeans and Eclipse.
  + Responsible for unit testing, API testing, and integration testing
  + Must be trained on the process being used for this project, the test specification format utilized, and the defect/issue tracking system utilized
* System Testers
  + Responsible for Load testing & Stress testing automation tools (such as Load Runner).
  + Must be experienced in system testing and use case validation testing.
  + Handles the test specification format utilized.
  + Must be trained on the defect/issue tracking system utilized.

## Schedule

This section contains overall project schedule

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| Activity | End date of delivery | Description |
| Test plan | 10/06/2017 | All high level planning should be completed. |
| Implement the plan | 15/06/2017 | Implement the plan and should measure its performance. |
| Integration, system testing | 27/06/2017 | This milestone includes integration and system testing and code review of each function. |
| Feature complete | 22/07/2017 | This phase allows for feature clean up to verify remaining bug fixes and performance testing. |
| Performance test | 12/08/2017 | This phase represent that all Automation application code is ready for performance testing and also improves the functionality. |
| Delivery | 19/08/2017 | Product is ready for launch. |

## Planning Risks and Contingencies

As a software is a lifetime process so it has some upgradable function that will add with the software time to time. So, these areas need to be identified to eliminate any defect that is reported back and also the future functions.

* 3rd party and off-the-shelf components.
* Create acceptance test plan.
* Tracking defects that do not relate to this plan.

Prevent waste of resources chasing non-defects.

## Approvals

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| --- | --- | --- |
| Name | Sign | Date |
| Ashiqur Rahaman  (Team Lead, Project Manager) |  |  |
| Shorab Hossen  (Test Case Analyzer) |  |  |
| Abhishek Saha  (Testing Team) |  |  |