

**School of Computing**

**SRM IST, Kattankulathur – 603 203**

**Course Code: 18CSC206J**

**Course Name: Software Engineering and Project Management**

|  |  |
| --- | --- |
| **Experiment No** | 10 |
| **Title of Experiment** | Develop a Testing Framework/User Interface |
| **Name of the candidate** | SOORAJ TOMAR |
| **Team Members** | HARSHIT SHARMA(RA2011030010206), PIYUSH BISHT(RA2011030010226) |
| **Register Number** | RA2011030010224 |
| **Date of Experiment** | 23/5/22 |

**Mark Split Up**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No** | **Description** | **Maximum Mark** | **Mark Obtained** |
| 1 | Exercise | 5 |  |
| 2 | Viva | 5 |  |
| **Total** | | **10** |  |

**Staff Signature with date**

**Aim**

To develop the testing framework and/or user interface framework for the STUDENT ATTENDANCE MANAGEMENT SYSTEM.

**Team Members:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S No** | **Register No** | **Name** | **Role** |
| **1** | **RA2011030010224** | **SOORAJ TOMAR** | **Rep/Member** |
| **2** | **RA2011030010206** | **HARSHIT SHARMA** | **Member** |
| **3** | **RA2011030010226** | **PIYUSH BISHT** | **Member** |

# Executive Summary

**Objective:**

* Finding defects which may be created while programming and while developing the software.
* Gaining confidence in and providing information about the level of quality.
* To make sure that the end result meets the user requirements.
* To ensure that it satisfies the BRS that is Business Requirement Specification and SRS that is System Requirement Specifications.
* To gain the confidence in a quality product.
* To ensure that the FR and NFR are in accordance to the analysis done in the beginning.
* To design effective test cases for identifying the errors.

# Test Plan

|  |  |  |
| --- | --- | --- |
| **Duration** | **Subject** | **Methodology** |
| 2 weeks | Functional Requirements (Login, Details Display, Details Editing, Detained Subjects Display) | Manual Testing- Acceptance Testing |
| 1 week | Non-Functional Requirements (Speed, Usability, Effectiveness) | Manual Testing- Compatibility, Performance, Usability Testing |

# Scope of Testing

To uncover the errors in the project.

**Functional Requirements Testing:**

* Check if Login is properly Authenticated.
* Check if the details are correctly matched.
* Check id details can be easily updated.
* Check if detained subjects are easily displayed.

**Non-Functional Requirements Testing:**

* Check if UI is easily to get around.
* Check if functionalities are timely executed.
* Check if S/W is working properly as per user inputs.

# Types of Testing, Methodology, Tools

|  |  |  |
| --- | --- | --- |
| Category | Methodology | Tools Required |
| Functional Requirements | Manual | Word Template, Calculator |
| Non-Functional Requirements | Manual | Word Template, Timer |

Result:

Thus, the testing framework/user interface framework has been created for the STUDENT ATTENDANCE MANAGEMENT SYSTEM.