** COMSATS University Islamabad, Lahore Campus**

***Lab 3 – Solution Template***

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Course Title: | Object Oriented Software Engineering | | | | Course Code: | CSC 304 | | Credit Hours: | 3(2,1) |
| Course Instructor IndhsdjsIInstructorInstructor/s: | Yella Mehroze | | | | Theory/Lab Name: | Lab | | | |
| Semester: | 4th | Batch: | Fa19-BSE | Section: | A , B | Semester | Spring 2021 | | |

**Outline**

* **Writing requirements**
* **Writing Specifications**
* **Practice for learning NFR and its categories**
* **FURPS**
* **FURPS + model / Constraints / Pseudo requirements**
* **FURPS + model 2 / Quality requirements**

# **Task 1**

**How to write requirements [Write three requirements for Cu online/your project/TransPal] (Take any one of these). Paste your first solution on left side, Paste your final solution on right side**

|  |  |
| --- | --- |
| Version 1 of Requirements | Version 1 of Requirements (After instructor feedback / Your second version) |
| **The system shall enable the user to login as either the student or faculty member.** |  |
| **The system will have a dashboard.** |  |
| **The system shall allow the user to edit his personal information.** |  |

# **Task 2**

**Apply FURPS+ model 2 for your chosen system in Task 1**

**Template to write solutions:**

|  |  |  |
| --- | --- | --- |
| **Sr.No** | **Quality Requirements** | **Your requirement goes here** |
| **1** | Functionality | **The system should automate its manual processes.** |
| **2** | Usability | **The system should be usable by students and all the teaching & non-teaching staff.** |
| **3** | Reliability | **The system should not have any security threat.** |
| **4** | Performance | **The system should have minimum response time.** |
| **5** | Supportability | **The system should be given updates after every month.** |

# **Task 4**

**Apply FURPS + model for your semester project (You can do this task later if you have not selected your semester project yet. It will be included in your assignment 1.) For now, you can write for any other system as well)**

**Template to write solutions:**

|  |  |  |
| --- | --- | --- |
| **Sr.No** | **Pseudo Requirements** | **Your requirement goes here** |
| **1** | Implementation Requirements | **JavaScript, PHP etc. should be used for development** |
| **2** | Interface Requirements | **The system should work in all browsers without any issue.** |
| **3** | Operation Requirements | **The system should be directed by an IT specialist & web developer.** |
| **4** | Packaging Requirements | **The system should be installed within limited hours(1-2).** |
| **5** | Legal Requirements | **The system should use verified licensed software.** |

***For any queries***

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