**Software Project Guide**

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**Whom to Contact?**

This booklet provides comprehensive details to the students who are planning to take Software development projects as their final projects. Therefore, such students are advised to go through it in complete.

If any of the quires are unsatisfied even after having read the information given in rest of the booklet then students can contact CS619 on following email addresses.

* cs619@vu.edu.pk

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**1.** **What is a Software Project?**

At first it is important to understand what the software is? “Software” can be defined comprehensively as,

[[1]](#footnote-1)“Computer Programs that, when executed provide desired function and performance, data structures that enable the programs to adequately manipulate information and documents that describe the operation and use of programs”.

Looking at the definition indicates clearly that developing software does not mean mere development of programs (or code) rather it requires the related documents to be produced as well.

To develop software effectively requires following a process. Each stage of this process culminates in one or more artifacts.

Examples of software projects are, software developed for face recognition, building a Customer Relationship Management (CRM) System, Flight Simulation System, Point of Sale (PoS) System, a Web Portal, an Electronic Store Front etc.

Software projects can be aimed at producing a desktop application, an embedded application (like to be used in microwave oven) or some online application.

**2. Purpose of a Software Project:**

The University aims at producing such IT professionals who leave the impression of excellence in knowledge and skills in their professional lives. Students are encouraged to come up with innovative and unexplored ideas while addressing a problem.

After having completed the project students will be expected to have the following skills,

* It will provide the students with an opportunity to implement the concepts they have learned throughout their degree program so far.
* Awareness of the latest technologies being used in the industry and more importantly the application of those technologies.
* Knowledge of all the formalities required to undertake a software project.
* Enough confidence to take the challenges of their practical environment.

**3. Eligibility Criteria**

* No student below 1.75 Effective CGPA will be allowed to take the project title.
* MCS/MIT Students must have completed 30 credit hours to become eligible for taking the final project. So don’t enroll in CS619 course or drop your cs619 course if you have earned less than 30 credit hours.
* BSCS/BSIT Students must have completed 90 credit hours to become eligible for taking the final project. So don’t enroll in CS619 course or drop your cs619 course if you earned less than 90 credit hours.

**4. Guidelines to register for a Project**

Please read the following to get to know, how you can get registered for you final project.

* First of all, you have to enroll in CS619 course through course selection (contact course\_selection@vu.edu.pk for enrollment).
* Carefully read the relevant CS619 announcements to take a project The project selection will be done through VULMS. The relevant announcements will contain all the information for project selection.
* Students will be required to make groups. In a group maximum two (2) students are allowed.
* A student can also choose to do the project alone (a single member of the group instead of two).
* Students who fail to submit their final project in specified duration (two consecutive semesters) will need to take extension for the next (one) semester in CS619 course. For this purpose.

**5. Grading Policy**

Students are advised to check assignments page / tab of CS619, regularly. This is important to remember that each deliverable carries a significant weightage so students are advised to take each deliverable very seriously and submit it according to the dates mentioned on assignments page / tab of CS619 course.

While evaluating the students the following factors will be considered important

* Effective use of time and of visual aids.
* Organizational and presentation skills.
* Seriousness and dedication of the students in meeting project assignments dates.

**6. Selection of Project through VULMS**

At the start of every semester, a list of projects is offered to students. All the information to start the project is provided via the announcements page that is published in start of project under CS619 course announcements section.

Students can also submit a custom project proposal instead of choosing from the offered projects. In this case the idea of the project should be unique. All the information for custom project proposal will be provided via CS619 announcements.

1. This definition is taken from the book “Software Engineering A Practitioner’s Approach (Fourth Edition) by Roger S. Pressman” [↑](#footnote-ref-1)