

**COMSATS Institute of Information Technology  
Park Road, Tarlai Kalan, Islamabad**

#### Department of Computer Science

**Project Proposal**

For

Final Year Project Title

*(Valid Title reflecting scope and objectives)*

**Submitted By:**

* Student 1 Name

Student 1 Registration Number

* Student 2 Name

Student 2 Registration Number

* Student 3 Name

Student 3 Registration Number

**Supervised By:**

Supervisor Name

Co-supervisor Name (if any)

Submission Date: (Day-Month-Year)

Original Version 1.0

(Mention the appropriate project proposal Document version)

**Table of content**

[1. Introduction 3](#_Toc506386180)

[2. Problem Statement 3](#_Toc506386181)

[3. Problem Solution 3](#_Toc506386182)

[4. Related System Analysis/Literature Review 3](#_Toc506386183)

[5. **A**dvantages/Benefits of proposed system 3](#_Toc506386184)

[6. **S**cope 3](#_Toc506386185)

[7. **M**odules 4](#_Toc506386186)

[7.1.Module 1: Module Name 4](#_Toc506386187)

[7.2.Module 2: Module Name 4](#_Toc506386188)

[7.3.Module 3: Module Name 4](#_Toc506386189)

[7.4.Module 4: Module Name 4](#_Toc506386190)

[7.5.Module 5: Module Name 4](#_Toc506386191)

[7.6.Module 6: Module Name 4](#_Toc506386192)

[8. **S**ystem Limitations/Constraints 4](#_Toc506386193)

[9. **S**oftware Process Methodology 4](#_Toc506386194)

[10.**T**ools and Technologies 4](#_Toc506386195)

[11.**P**roject Stakeholders and Roles 5](#_Toc506386196)

[12.**T**eam Members Individual tasks/Work Division. 5](#_Toc506386198)

[13.**D**ata Gathering Approach 5](#_Toc506386199)

[14.**C**oncepts 5](#_Toc506386200)

[15.**G**antt chart 6](#_Toc506386201)

[16.**M**ockups 6](#_Toc506386202)

[17.**C**onclusion 6](#_Toc506386203)

[18.**R**eferences 6](#_Toc506386204)

[19.**P**laragism Report 6](#_Toc506386205)

**Project Category: (**Select all the major domains of proposed project**)**

* **A-**Desktop Application/Information System **** **B-**Web Application/Web Application based Information System ** C-** Problem Solving and Artificial Intelligence ** D-**Simulation and Modeling ** E-** Smartphone Application ** F-** Smartphone Game ** G-** Networks ** H-** Image Processing**** Other (specify category) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Introduction

Specify the purpose of this project proposal document along with description detailed background of the system***.***

(Usually in 10-12 sentences)

## Problem Statement

**What** problem does your software solve? **Why** you are developing this system? **Does** the same system already exist? **If yes,** how will a re-implementation aid your learning? **What** skills do you expect to learn from this project?

(Usually in 14-16 sentences)

## Problem Solution for Proposed System

Briefly explain how your system solves the problems mentioned in the problem statement.

(Usually in 14-16 sentences)

## Related System Analysis/Literature Review

**Write** about the existing/similar systems related to your proposed project. **At least three** existing systems should be discussed.

Don’t use more than 4 sentences for explaining a single system/application.

Briefly explain the related system analysis which help to specify the contribution of the proposed project.

(**Note**: Research based projects may provide literature review instead of related system analysis.)

|  |  |  |
| --- | --- | --- |
| **Application Name** | **Weakness** | **Proposed Project Solution** |
| The name of related application(s). | Weaknesses may include limited features, low quality functionality and processes. | The way the proposed project mitigates the weaknesses. |
| System/Application 1 |  |  |
| System/Application 2 |  |  |
| System/Application 3 |  |  |

**Table-1:** Related System Analysis with proposed project solution

## Advantages/Benefits of Proposed System

Write down the advantages and benefits of the system you are developing. In other words, you have to mention here advantage of your proposed solution to the existing problem.

Mention in bulleted format.

(Usually in 5-7 advantages)

## Scope

Write down the scope of your project in a paragraph. Briefly define the main functionalities of the proposed project.

(Scope defines the boundaries and range of the proposed solution, that what would be the part of your project and what will be not.) Write down in logical flow with consistency.

(Usually in 14-18 sentences)

## Modules

Write down the modules of the proposed project. Don’t forget to mention special/new features. Briefly explain your one module in 6 to 8 sentences.

(**Note:** Usually 5-6 Modules for 2 student’s project and 8-9 modules for 3 student’s project)

**Explanation of a Module:**

Module is a section of a program that performs a task. Programs consist of [modules](http://www.webopedia.com/TERM/M/module.html), each of which contains one or more routines. The term routine is synonymous with procedure, function, and subroutine.

**Example:**

Enterprise resource planning (ERP) software - is comprised of several large modules (for example, finance, supply chain and payroll, etc.), which may be implemented with little or no customization.

(Briefly explain each module with respect to major functionality in user context)

## Module 1: Module Name

## Module 2: Module Name

## Module 3: Module Name

## Module 4: Module Name

## Module 5: Module Name

## Module 6: Module Name

## Module N: Module Name

## System Limitations/Constraints

Write down the limitations and constraints of the proposed project.

(Usually 2-4 constraints)

## Software Process Methodology

Write down your software methodology/ software process that will be used for project development. Also mention why you have chosen this methodology.

(Usually 3-5 sentences)

## Tools and Technologies

Mention all the hardware/software tools and technologies with version number which will be used in implementation of the project. Write about the APIs, language(s), SDK(s) etc. which you will use for implementation.

**For example:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Tools**  **And**  **Technologies** | **Tools** | **Version** | **Rationale** |
| MS Visual Studio | 2015 | IDE |
| MS SQL Server | 2015 | DBMS |
| Adobe Photoshop | CSC 6 | Design Work |
| MS Word | 2015 | Documentation |
| MS Power Point | 2015 | Presentation |
| Pencil | 2.0.5 | Mockups Creation |
| **Technology** | **Version** | **Rationale** |
| C# | 6.0 | Programming language |
| SQL | 2013 | Query Language |
| Html | 5 | Web Development |

**Table-2: Tools and Technologies for Proposed Project**

## Project Stakeholders and Roles

Write down the project stakeholders and their roles.

|  |  |
| --- | --- |
| **Project Sponsor** | All web applications and desktop applications should have real client. Mention your project sponsor.  **Default option will be**: COMSATS, Institute of Information Technology Islamabad |
| **Stakeholder** | Mention your stake holders with their roles and responsibilities.  **Default option will be**   * **Students names** * **Project Supervisor Name:** Mr./Miss … * **Final Year Project Committee:** Evaluation of project |

**Table-3: Project Stakeholders for Proposed Project**

## Team Members Individual Tasks/Work Division

|  |  |  |
| --- | --- | --- |
| **Student Name** | **Student Registration Number** | **Responsibility/ Modules** |
| **Student 1 Name** | **Student 1 Registration Number** | Describe the work division of each student along with modules  E.g.   * Mr. Ali (Module1-Module3) Augmented reality and Databases tasks. |
| **Student 2 Name** | **Student 2 Registration Number** |  |
| **Student 3 Name** | **Student 3 Registration Number** |  |

**Table-4: Team Member Work Division for Proposed Project**

## Data Gathering Approach

Write down information and requirement gathering approaches for proposed project e.g. Interview, Questionnaire etc.

(Usually 3-5 sentences)

## Concepts

Mention the concepts that you will learn while doing the proposed project.

**For example**:Augmented Reality, Virtual Reality, Algorithms, API’’s Code injection, Closures, VI technique etc.

Not more than 4 sentences for one concept.

(Usually 3-5 concepts are briefly mentioned)

Example to write concepts are mentioned

* 1. **Concept-1: Concept Name E.g. Augmented Reality** (Briefly give the overview of concept with respect to your project)
  2. **Concept-2: Concept Name E.g.**

## Gantt chart

Create the Grant Chart and provide estimated start and end dates of all proposed modules/tasks for each team member. Also identify the dependencies (which tasks cannot be started/completed, until the dependent task is completed). Gantt chart can be created using MS Project.

**Figure 1: Sample Gantt chart** 

## Mockups

Insert minimum mockups (Usually 4-6 mockups) which show the major modules mentioned in the scope section of the document. Do not include mockups for Login, Signup, Forgot Password, Contact Us, About Us etc. If the project is a Web or a Smartphone Application, then include at-least three mockups from each part of the project. You can design mockup in any design tool for example pencil tool (<https://pencil.evolus.vn/>) or Balsamiq (https://balsamiq.com/)

## Conclusion

Conclude this document.

(Usually 4-5 sentences)

## References

Mention the books, research papers, web links etc.

(Usually 3-5 References)

## Plaragism Report

Attach the Plaragism report of your project scope document from library staff of turnitin tool (<http://turnitin.com>)