

Programming Fundamentals Project Proposal Submission Form

Note: - This form must be TYPED– Handwritten forms will NOT be accepted.

Group ID:

Group ID will assigned by course instructor

(To be filled by the Student(s) ↓)

1. Degree Program: CS: IT:

2. Number of Students in Group:

3. Project Type: Console: GUI:

4. Categories: Management Systems Game Others:
Write Details

Note: You can only build your project using C.
All the concepts of programming fundamentals should be utilize in project

5. Project Title:

6. Instructor Name:

7. Project Details: Write down the functional requirements of your project below. You can support your content by using pictorial representation (use high quality pictures if any)

UniLink — WHERE EVERY STUDENT IS JUST ONE LINK AWAY

Project Overview:

UniLink is a **university management and learning assistant** built entirely in C language.

It aims to provide students and administrators with a centralized platform for **managing profiles, courses, quizzes, grades, and reminders** — all within an easy-to-use interface.

The system demonstrates key C programming concepts such as **file handling, structures, arrays, loops, conditionals, modular programming, data validation**, and optionally **basic graphics programming** for a visual interface.

Basic Functionalities:

No.	Functionality	Description	Implementation Method
1	Login System	Separate logins for Admin and Students	File-based credentials (username + password); simple authentication logic
2	Student Profile Management	Add, view, edit, delete student details	struct Student, data stored in students.csv or students.dat
3	Course Management	Add/view courses, assign credits	struct Course, stored in file courses.csv
4	Enrollment	Enroll students in courses	Mapping student roll numbers with course codes
5	Quiz System	Admin can create quizzes; students can attempt and view results	Use struct Question and struct Result; save in quiz.dat
6	GPA Calculator	Calculate GPA based on marks and credit hours	Apply GPA formula with stored course data
7	File Handling / Data Storage	Persistent storage of all data	Text or CSV files (easy to read, update, and display)

GUI Implementation Plan:

A simple graphical interface using **WinBGI** (**graphics.h**) in C.

The GUI will include:

- A **login screen** with text boxes
- **Buttons** for menu options (Add Student, Take Quiz, etc.)
- **Graphical charts** for displaying GPA or quiz results

Conclusion:

UniLink will serve as a smart and accessible portal that bridges students and administration through a simple yet powerful interface.

It's designed to not only fulfill the requirements of the Programming Fundamentals course but also showcase creativity, structure, and innovation.

Student(s) Information:

Student ID.	Class ID	Name	E-mail ID	Cell Phone #
BSCS25201075	Section - A	Muhammad Basim Qureshi	muhammadbasim925@gmail.com	0321-2516186
BSCS25201029	Section - A	Ahsan Ilyas	muhammadilyas2149@gmail.com	0336-2215614

8. I hereby state that the above mentioned goals of our project shall be completed within the due dates specified by the instructor. I shall abide by all the rules set by the instructor.

I shall not be using any unfair means to complete my project and I admit that Plagiarism is a professional sin and I shall not use it.

Name: Student ID #

Muhammad Basim Qureshi

BSCS25201075

Signature/Date: _____

Name: Student ID #

Ahsan Ilyas

BSCS25201029

Signature/Date: _____