Kamran 1

UniPrep

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Final Project Report — Programming Fundamentals

University Name: FAST NUCES, Karachi Campus.
Department: Department of Computer Science Course: Programming Fundamentals
Project Title: UniPrep Submitted By: Kamran(25k-0792) and Nabeel(25k-0584)
Submitted To: Sir Qasim Keeryo
Semester: Fall 2025
Date: 21-11-2025

Abstract

The UniPrep is a console-based program developed in C language to allow students to practice different universities entry tests quizzes. It allows student to input his/her name, email, intermediate percentage, select his/her desire university from eligible universities based on intermediate percentage and practice for a chosen subject. The system randomly display mcqs from a file of a chosen subject and displays the score. The student information and the score will be store in a file to show the leaderboard. This project display understanding of loops,array,functions and structures.

1. Introduction

Preparing for universities entry tests is the most important part for higher education. There is not much material available on internet to practice these types of quizzes. This project provides students to test their preparation of a specific subject under time.

2. Objectives

* Student registration (name, email, field of study, intermediate percentage)
* Student can select a specific subject of their selected university based on the test pattern.
* Randomly display mcqs from subject file.
* Each mcq has a time limit of 60 seconds.
* Display the total score.
* Display the leaderboard with rank, student name, subject and the score
  obtain in it.

3. System Design

System Overview

* Flow of the program:
* Start
* Input student details
* Display eligible universities of a selected field
* Input a desire university of the student and choose a subject
* Call the function of a specific subject
* Generate 25 Random mcqs from a file of that specific subject
* Each mcq to answer has time limit of 60 seconds
* Display Score

* Store the student information with the score
* Write the leaderboard from a file
* Exit

Algorithm

* Start the program
* Prompt user to enter name, correct email, intermediate percentage, subject field.
* Check if percentage>60 display top universities else display private universities
* Ask the user to choose a desire university from a list of eligible universities.
* Ask the user to choose a subject from the test pattern of selected university.
* Call the function to generate 25 random mcqs from a file bank.
* Each mcq given a timer of 60 seconds
* Calculate the score
* Store the score and details into a file
* Display the leaderboard
* Ask the user to continue or exit
* Check if yes then continue the loop else exit the program
* End

Input & Output

Input: Student name,email,intermediate percentage,select university, choose a subject,answer to random mcqs.

Output: Display mcqs,score, and student details.

4. Implementation

Language: C
Compiler/IDE: Dev C++

Key Features

* Input student name, email and intermediate percentage to show eligible universities.
* Random mcqs generation from chosen subject.
* Time bound mcqs each has time limit of 60 seconds to answer.
* Calculate the total score
* Store the information in a file to display the leaderboard.

Code Snippet

```c
if (intermediate_percentage >= 60)
        {
                printf("\nTop Computer Science Universities in Pakistan:\n1- FAST University (National University of Computer and Emerging Sciences)\n2- COMSATS University Islamabad\n3- National University of Sciences and Technology (NUST)\n");

    printf("\nEnter your desired university number: ");
    scanf("%d", &number);

printf("Test Pattern:\n");
if (number == 1)
{
    printf("FAST: Advance Math 50%%, IQ 20%%, English 10%%, Basic Math 20%%\n");
    printf("Select a topic for your practice:\n");
    printf("1) Advance Math\n2) Basic Math\n3) IQ\n4) English\nOption:  ");
    scanf("%d",&subnum);

    if(subnum==1){
    score=Maths();
    record(name,email,"Math",score); }
    else if(subnum==2){
    score=BasicMath();
    record(name,email,"Basic Math",score);}
    else if(subnum==3){
    score=IQ();
    record(name,email,"IQ",score);}
    else if(subnum==4){
    score=English();
    record(name,email,"English",score);}
    else
    printf("You entered wrong number");
}
else
{
    printf("1- Virtual University of Pakistan (VU)\n2- Iqra University\n3- Preston University\n");
    printf("\nEnter your desired university number: ");
    scanf("%d", &number);

    if(number==1 || number==2 || number==3){
    printf("\nSelect a topic for your practice:\n");
    printf("1) Mathematics\n");
    printf("2) English\n");
    printf("3) IQ\nOption: ");
    scanf("%d",&subnum);
    if(subnum==1){
    score=Maths();
```

```c
                record(name,email,"Math",score);}
                else if(subnum==2){
                score=English();
                record(name,email,"English",score);}
                else if(subnum==3){
                score=IQ();
                record(name,email,"IQ",score);}
                else
                printf("You entered wrong number");
            }
        }
        leaderboard();
        break;
    }

int Maths( ){
memset(allquestions,0,sizeof(allquestions));
memset(correct,0,sizeof(correct));
questionCount=0,count=0,linelength=1024;
File *math;
math= fopen("math.csv","r");
if(math==null)
{
printf("Error");
return 1;
}
if(fgets(mcqReader,lineLength,math)==Null){
prinf("Error Heading line):
fclose(math);
return 1;
}
 while(fgets(mcqReader, lineLength, math) != NULL && questionCount<maxQuestions){
     mcqReader[strcspn(mcqReader, "\n")] = '\0';
     char* token = strtok(mcqReader, "|");
     if(token != NULL) {
        strcpy(allQuestions[questionCount].question_text, token);
     }
     token = strtok(NULL, "|");
     if(token != NULL) {
        strcpy(allQuestions[questionCount].option_a, token);
     }
     token=strtok(NULL, "|");
     if(token != NULL) {
        strcpy(allQuestions[questionCount].option_b, token);
     }
     token=strtok(NULL, "|");
     if(token != NULL) {
        strcpy(allQuestions[questionCount].option_c, token);
```

```c
        }
        token=strtok(NULL, "|");
        if(token != NULL) {
            strcpy(allQuestions[questionCount].option_d, token);
        }
        token=strtok(NULL, "|");
        if(token != NULL) {
            strcpy(correct[questionCount], token);
        }
        questionCount++;
      }
  fclose(math);

  for(questionCount=0;questionCount<25;questionCount++){
  lineLength=rand()%50;
char userAns = askTimedMCQ(allQuestions[lineLength], correct[lineLength][0]);

if (userAns == correct[lineLength][0]) {
    score++;
}
}
}
    printf("Your final score is: %d/25\n", score);
    return 0;
}
```

Sample Output
Enter your name: Kamran
Enter your email: kamran@gmail.com
The email is Valid
Enter your intermediate percentage: 87
Choose your field of study:
1) Pre-Engineering
2) Computer Science
3) Pre-Medical
Enter the field number: 2
Top Computer Science Universities in Pakistan:
1- FAST University (National University of Computer and Emerging Sciences)
2- COMSATS University Islamabad
3- National University of Sciences and Technology (NUST)
Enter your desired university number: 1
Test Pattern:
FAST: Advance Math 50%, IQ 20%, English 10%, Basic Math 20%
Select a topic for your practice:
 1) Advance Math
 2) Basic Math
 3) IQ
 4) English
Option: 1

What is vec{k} times vec{k}

A) 0

B) 1

C) hat{i}

D) hat{j}

You have 60 seconds to answer...

Time left: 57 seconds

Your answer: A

What is the value of sin^2(45deg) + cos^2(45deg)

A) 0

B) 1

C) 2

D) 1/sqrt(2)

You have 60 second to answer

Time left: 0 seconds

Time up!

What is the order of the differential equation d^2y/dx^2 + 3(dy/dx) + 2y = 0

A) 1

B) 2

C) 3

D) 0

You have 60 second to answer

Time left: 58 seconds

Your answer: C

------------------------------------(More mcqs will display)

Your final score is: 12/25

Leaderboard:

Rank | Name | Subject | Score

1 | Kamran | Math | 7/25

5. Testing & Results

Input   Output

Enter your email: kaMran|@gmail.com   The email is Invalid

Enter your email: kamran@gmail.com   The email is Valid

Choose your field of study:

1) Pre-Engineering

2) Computer Science

3) Pre-Medical

Enter the field number: 4   Invalid input. Please try again.

Input	Output
Choose your field of study:	Top Computer Science Universities in Pakistan:
1) Pre-Engineering	1- FAST University (National University of Computer and Emerging Sciences)
2) Computer Science	2- COMSATS University Islamabad
3) Pre-Medical	3- National University of Sciences and Technology (NUST)
Enter the field number: 2	
If file not stored in the folder	Error opening file

The program handles all cases correctly. It checks email verification function. On Inputting invalid number it will ask to reinput. If the csv file not created or stored in the folder then it will display error. Program execution speed was fast and it does not consume much system memory.

6. Conclusion, Limitations & References

Conclusion

In conclusion, the uniprep project help students to practice universities entry tests related quizzes of a specific subject in time limit. This help students to know their preparation and see their previous scores as well.

Limitations

- · The program will generate a specific number of mcqs that is 25 for each university test subject, not based on weightage of the subject reserved by universities for entry tests.
- · The program has a limited number of mcqs stored in the file.
- · The program can repeat a mcq multiple times during single run.

Future Enhancements

- · The number of mcqs stored in a file can be increase.
- · The number of mcqs can be fluctuate per subject based on university pattern and subject weightage reserved in entry tests.

References

https://youtu.be/ViqyHIyfHYo?si=1AJaLN8SVdmPk5o0
https://youtu.be/qg69AXmHhx8?si=UGNLTgbYYnhPBJSX
https://youtu.be/J464pe6ZTrE?si=ruooQ-sORLCvS3p4
https://youtu.be/NxHSJILL6B4?si=J_dy8WJQbgVKpxia