



Student Fee Management System

Nikunj Labana -B16CS021

Shivam Nirne - B16CS022

Features Of Project -

Student's Features

- ▶ Pay Semester Fee
- ▶ Pay Mess Fee
- ▶ View his receipt
- ▶ Can Change Password

Features of Project

Admin's Features

- ▶ Can Register New Student
- ▶ Update Session
- ▶ Update Particular Fees
- ▶ Can See Student Details
- ▶ Can Remove Any Student

List Of Use Cases-

- ▶ Log In
- ▶ Register New Student
- ▶ See Details
- ▶ Update Details
- ▶ Remove Student
- ▶ Semester Fee Payment
- ▶ Mess Fee Payment
- ▶ See Receipt
- ▶ Change Password

Structure Of Database /File System -

Following are the files that are made for proper functioning which contains data separately -

- ▶ Student Database
- ▶ Admin Credentials
- ▶ Current Mess Fee
- ▶ Sem Fee B.Tech Gen/OBC below 1 lac
- ▶ Sem Fee B.Tech Gen/OBC 1 to 5 lac
- ▶ Sem Fee B.Tech Gen/OBC above 5 lac
- ▶ Sem Fee B.Tech SC/ST
- ▶ Sem Fee M.Sc Gen/OBC
- ▶ Sem Fee M.Sc SC/ST
- ▶ Session

Structure of Student Database File -

Student Database.txt - Notepad

File Edit Format View Help

BT1	-USER ID
nikunj	-USER NAME
OBC	-USER CASTE
BTech	-USER PROGRAM
0	-USER SEMESTER FEE PAYMENT STATUS
1	-USER MESS FEE PAYMENT STATUS
W284VN12	-USER PASSWORD
BT2	-SECOND USER ID
shivam	-SECOND USER NAME
GENERAL	-SECOND USER CASTE
BTech	-SECOND USER PROGRAM
1	-SECOND USER SEMESTER FEE PAYMENT STATUS
0	-SECOND USER MESS FEE PAYMENT STATUS
12345678	-SECOND USER PASSWORD
BT4	-CONTINUE
rajsh	
GENERAL	
BTech	
0	
0	
Z31YOW69	

Things That Could Not Be Implemented -

- ▶ There is no online platform so that student can register himself , if he wants to register he has to go to Admin manually.
- ▶ Not able to use Database like SQL etc.
- ▶ There is nothing like notifications will appear and then according to that further process is implemented.
- ▶ Admin Can't update his password.

Statistics Of Unit And System Testing -

- ▶ We have done Unit testing for each function which takes input and gives output. Corner Cases are used as test cases.
- ▶ Automated Tools are not used.
- ▶ All test cases are considered.
- ▶ System Testing is done for each functionality.
- ▶ Unit testing and System testing is explained briefly.

Unit testing-update fee

Test ID	Input Option Amount		Actual Outcome	Expected Outcome	Pass / Fail	Description	Verification
3.7.7.1	2	20000	Fees of BTech SC/ST student is updated to 20000	Fees of BTech SC/ST student is updated to 20000	Pass		Verified
3.7.7.2	8	20000	Enter valid Option	Enter valid Option	Pass	Option is not amongst 1 to 7.	Verified
3.7.7.3	rdfgh	20000	Enter valid Option	Enter valid Option	Pass	String is given instead of int.	Verified
3.7.7.4	3	erdtfgh	Enter valid amount	Enter valid Amount	Pass	String is given instead of int.	Verified

System testing-register student

Step	Test step	Input	Intended Result	Expected Result	Pass / Fail	Comments
1	takeStudentDetails() Students Name,Caste and Program will be entered .	Student name , Student Caste, Student Program Ex. Parvesh , GENERAL,BTech.	Status : If Caste and program selected are not correct then details will be asked to re-enter. And these will be stored in temporary variable.	Same as expected.	Pass	This stored data will be used in further process.
2	giveUsernamePass()	BTech Counter from Btech counter file and Msc Counter from Msc counter file	Give Unique ID (using counter) and give a random password containing 8 characters.	Same as expected	Pass	This ID and password are also stored in temporary variables and will be used further.
3	registerStudent()	none.	The data i.e. stored in temporary variables in previous steps will be written into a file and student will be registered successfully.	Same as expected	Pass	There is a file which contains all students data .

Meeting Appointment Scheduler

Cross Tested Project

List Of Use-Cases Tested -

- ▶ Log In
- ▶ Create Account
- ▶ Request Appointment
- ▶ Normal Appointment
- ▶ Priority Appointment
- ▶ Cancel Appointment
- ▶ Appointment Decision
- ▶ Update Schedule
- ▶ View Profile
- ▶ View Schedule

Statistics Of Test Cases -

- ▶ All functions are tested(verified). Total functions were 11.
- ▶ Number of correct functions =10.
- ▶ Number of Incorrect functions=1.
- ▶ 1 Failure in system testing.
- ▶ Username is not getting updated in database.

Conclusion -

- ▶ We are successful in completing our project as per our thinking.
- ▶ C++ is not a good for working on interfaces, we have to be very precise.
- ▶ Learned what is the professional way of making software . And the things that are concerned while making it.
- ▶ Using Database system is better than File handling.

Thank You