

PROF : A Teacher Assistance Tool

Techonolgy that helps management

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Abstract

Traditional methods of managing the slots, attendance, account statements, grading is quite prone to errors. However going digital will make sure no such errors occur. We study the working of such system traditionally and tried replacing it with a digital alternative.

Introduction

This tool is just a replacement for old management system for faster access to data. This is a Desktop Application made in java using Mysql database. This helps us to avoid various problems :

1. DELAYED DOCUMENTATION GENERATION
2. TEDIOUS PAPERWORK
3. WORK REMAINS DISTRIBUTED
4. TRADITIONAL METHODS ARE PRONE TO HUMAN ERROR
5. SLOT COLLISION
6. COMMUNICATION GAP

Motivation

Motivation was to provide Teachers with an assistance for managing various student records. Make it an user friendly experience for them using this application overcoming the distributes systems and providing a centralixed system. The big concept was : The need of digitization of management system.

Description

1. Time-Table : Includes displaying available slots, booking and removing a slot.
 - Avoiding slot conflicts.
 - Smartly sends the notification according to the changes made.
 - Gives varied option for allocation.
2. Accounts : Shows complete account details, semester-wise account details, balance information, list generation, information brochure.
 - Easy Account reviewing.
 - Quick authorized document generation.
 - Saves time.
 - Maintains access list for Higher Authority Officers to review.
3. Attendance : Marks the attendance, check the attendance, get the percentage also keeps record of the changes. .
 - Digitalization of the attendance records.
 - Less prone to human errors.
 - Less human efforts.
 - Easy checking for any errors.
 - Eliminates traditional methods.
4. Grading : Add/Removes courses, add different no of tests as and when required, can display individual score, easy updation of scores .
 - Paper work is saved.
 - Human Error are minimized.
 - Centralized data access.
 - Provides better organized data readily available.

Results



Figure 1: Time-Table : Slot Checking, Slot Booking, Slot Removing

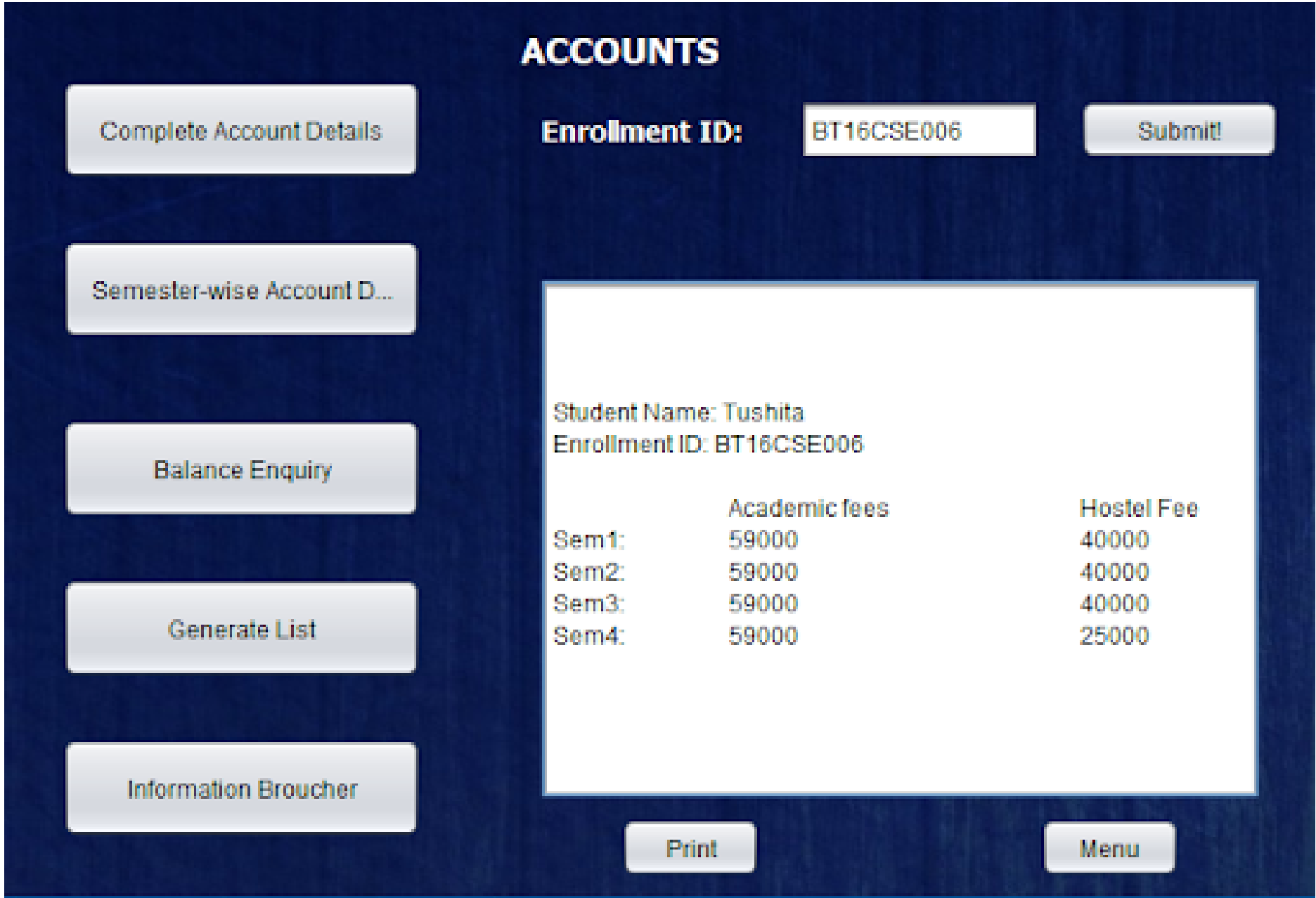


Figure 2: Accounts : Checking Fee structure, Balance remaining,etc

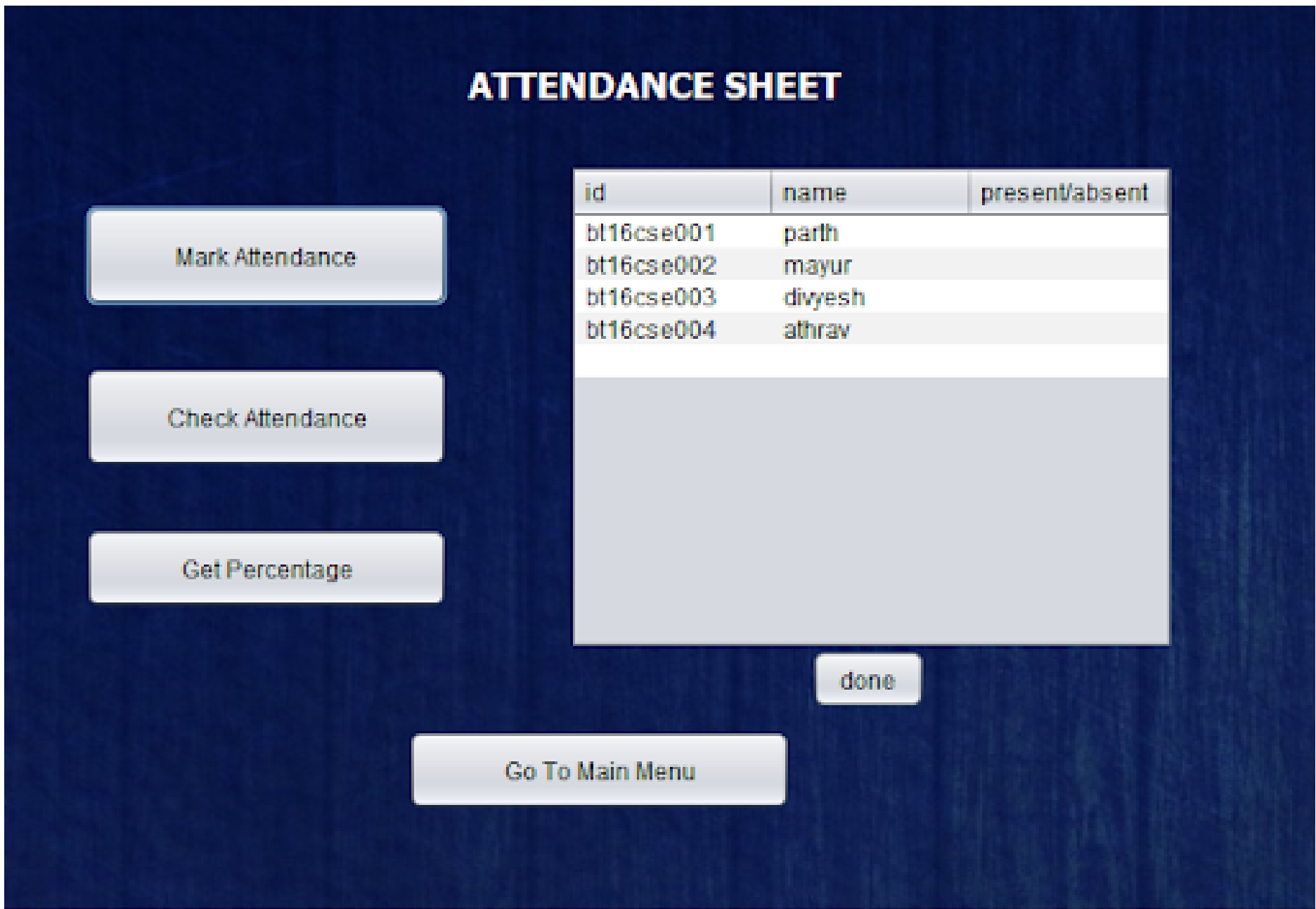


Figure 3: Attendance : Maintain Attendance

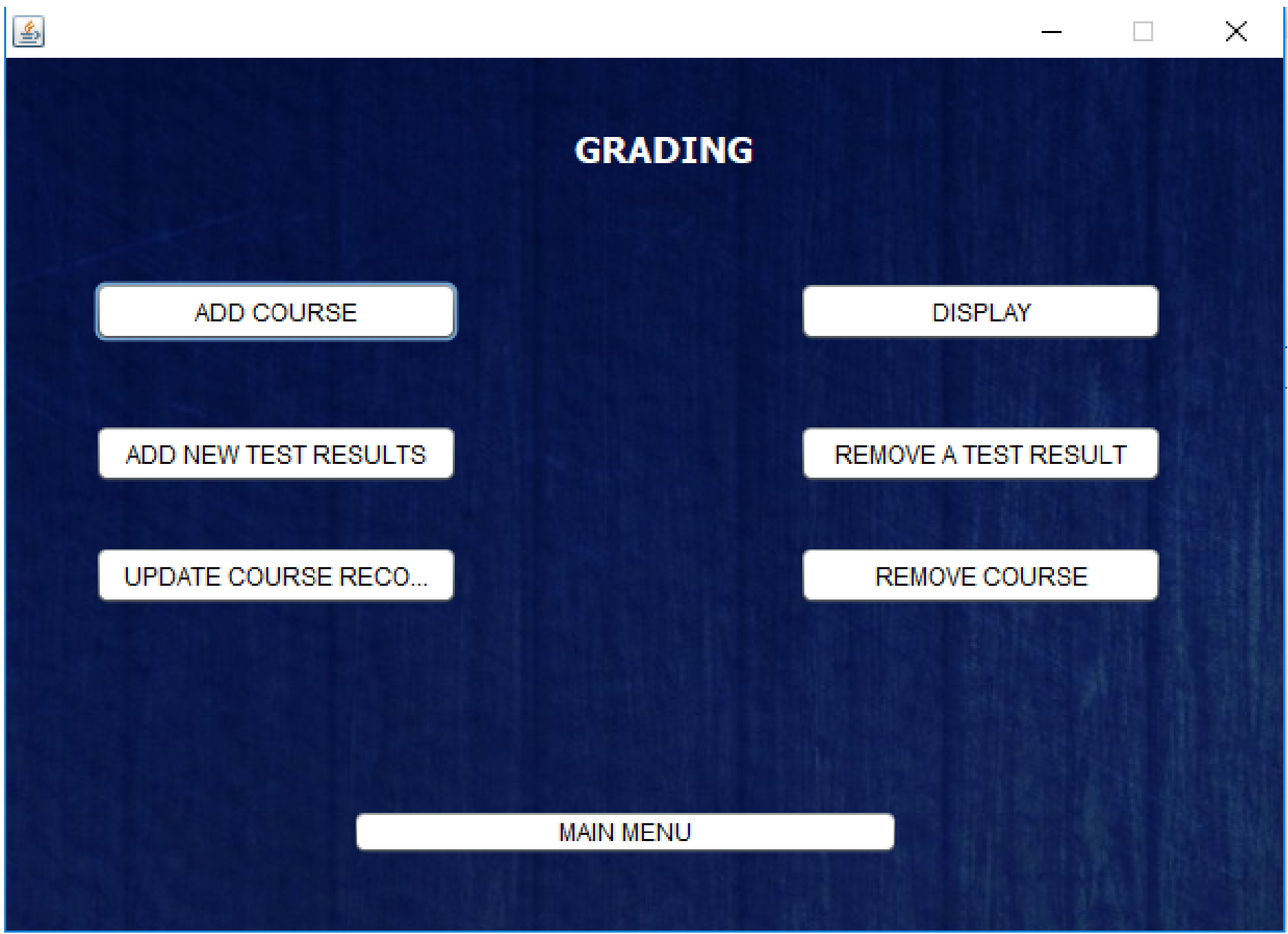


Figure 4: Grading : Maintain Grades

Conclusions

- Removing the traditional time consuming methodologies and going digital.
- No collisions of slots.
- Paper work is avoided.
- Errors are minimized.
- No Delay in official works.

Forthcoming Improvements

The Desktop application with some good functionalities definitely has scope of improvements. Some are stated below:

- Creating Time-Table from Scratch.
- Using Online Database.
- Various Deadline Alerts.
- Students perspective based functionalities.
- Android version for Desktop app.