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# Attendance Management Sysytem

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# Key Features

- Admin and Faculty can Login and Logout
  - Admin is able to Register new faculties and Students
  - Faculty is able to Register new students
  - Admin and Faculty can ADD and Modify Attendance
  - Maintains the record of Attendance for course of software engineering
  - Every user can View Attendance
  - Every user can View Defaulters
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# List of Use Cases

- Faculty Login
  - Admin Login
  - Add Faculty
  - Add Student
  - Remove Faculty
  - Remove Student
  - Add Attendance
  - Modify Attendance
  - View Attendance
  - View Defaulters
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# Structure of Database (File) System

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## Files are used to Manage Data

- Seperate files for each date is made to store attendance of that date
  - A file to manage Faculty list and their login credentials
  - A file to manage Students list and their Presents Counts List
  - A file to store Dates of the Lectures
  - A file to manage Students Roll Numbers and their Names
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# Things that could Not be Implemented

- Could not use effective Database Management Systems available such as SQLite, MongoDB, etc.
- Could not expand the system for multiple courses
- Unable to implement the functionality where students can request for modify attendance through system

# \_ Statistics of Unit and System Testing

- For some functions CFG was made and for others Corner cases were tested but only the prominent were mentioned in test report.
- NO Automated tools for testing were used
- NO test cases were missed

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# **We Tested Travelling and Daily Allowance (TA/DA) Settlement Management System**

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# List of Use Cases Tested

For the Project of TA/DA  
Settlement management System

- Registration as Student, Staff, Professor
- Login
- Apply for Reimbursement
- Admin : Show all Requests, Approve Request
- Change details
- Full System testing

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# Statistics of the Test cases

## Unit Testing

Out of all the 76 functions including all getters and setters only few functions were enough to test others i.e. goToPage, login, applyForReimbursement, registerUser, updateRemibursement

## Only 1 was incorrect

All functions were correct on unit testing level except one and that was reported

## Range Exceptions

Dev team should throw errors for range errors i.e. not allow to enter 3 if range is {1,2}

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# Conclusions

1. Use DBMS instead of File handling
  2. Use Automated tools for testing, it reduces errors and bugs
  3. Maximum errors in a C++ program occur at input and output stage hence should be handled accordingly
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**Thank You**

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