Minor Project- Report

Aug-2019-2020

Course Faculty:Shravya Ma’am Course Name & code: Oops with Java(19CS3DCOPJ)

Semester:3rd Date:12-11-2020

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| TITLE OF THE PROJECT | **School Management System** | | | |
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| STUDENT NAME | Abhay bansal | Abhijeet Kumar | A Mukesh | Adarsh B |
| USN | 1DS19CS701 | 1DS19CS702 | 1DS19CS700 | 1DS19CS703 |
| INDIVIDUAL  CONTRIBUTION | Database and classes | Design and GUI | Classes, flowchart and project outline. |  |
| GUIDE | <https://youtu.be/e0X00EoFQbE> , <https://www.w3schools.com/java/> , <https://www.geeksforgeeks.org/packages-in-java/> , https://www.youtube.com/watch?v=4Z1NliZEn58 | | | |
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| PROJECT ABSTRACT : | We will be using basic Object Oriented Programming concepts in our project namely **abstraction**, **encapsulation**, **inheritance**, and **polymorphism.**  Every School needs a management system for proper functioning and maintenance of various aspects of the school.  In the beginning of the semester, usually, the school office is packed with parents or students who queue to get a turn to pay the school tuition and the school also needs to keep track of their various expenses to be profitable.  Our project handles basic details of the school like names and number of students, fees to be collected, marks of various subjects of each student and their percentile.  Students will be able to access their report card only if their fees are completely paid.  We are planning to use Java Swing for GUI in Net Beans IDE and MySQL for database to store Student Details and their report card. | | | |
| PLATFORM USED  (H/W & S/W TOOLS TO BE USED | JAVA ,Net beans IDE, Java Swing for GUI and MySQL for database. | | | |
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| INTRODUCTION | Application of OOP to building a School Management System in Java, that uses core java concepts, Java Swing and MySql .  The functionality of Project: The project is based on 4 modules. 1) Student's Registration 2) Student's Fee Submission 3) Update Student's Result (Report card) and  4)View Student Details Page.  This project will have 6 classes namely LoginPage.java, Main\_menu.java, StudentRegistration.java, StudentReportcard.java, Studentfeesubmission.java and StudentDetails.java .  Our project will keep track of the details, fees and grades of students and display the Id, Name, fees of Students and grades of students in the entire school.  LoginPage- Enter username and password to view the main menu page.  Main\_menu- We have options to register students, update their fees or report card and view their details.  Student’s Registration- Enter Students name, class, roll number and father’s name which gets stored in database.  Student’s fee submission- Check the checkbox if student has paid his 1st, 2nd or 3rd installment fees which gets updated in database.  Update Student’s Report- Enter Marks of student in various subjects which gets stored in database.  View Student Details- Enter Student’s Name to view the details and report card of that student if his fees is cleared. | | | |
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| DESIGN |  | | | |
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| PROJECT SOURCE CODE LINK (GITHUB/ GOOGLE DRIVE) | <https://github.com/Jamesbansal/Java-mini-project> | | | |
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| CONCLUSION /FUTURE ENHANCEMENT | 1)The UI is very simplistic currently and a lot of work can be done to improve that in the future.  2) Student ranking system- Students of the same class will be allotted a rank based on their performance after sorting their percentiles.  3)Teacher’s Database- A database to store the details of teachers and other faculty members of the school can also be created. | | | |
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| UI SCREENSHOTS |  | | | |