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Software Development 1

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Project 2 Proposal – Household Budget Manager

My project will be to create a household budget tracking system using Java and a database. The Java code will connect to a database to store the data the user inputs. The application will prompt the user to input their monthly income and it will be stored in the database. The application will also prompt the user to add various expenses they have for the month, such as rent, food costs, electricity costs, and more. The application will also suggest various expenses when asking for input to increase the accuracy of the budget report. Using the information in the database, the application adds the cost of the expenses and compares the cost to the monthly income. After this comparison, it will inform the user if they are over budget or if they can afford all the expenses they have entered. The cost of the expenses will be subtracted from the monthly income to inform the user the exact amount of money saved during the month or the amount of money lost during the month. The user's data from one month will be saved in the database after declared by the user. Once more than one month of data is stored in the database, the application will be able to show a comparison between previous months, showing the difference in money saved or lost. Multiple months can be compared at a time and the user will be informed if there is a downward trend, upward trend, or no definitive trend in savings. PostgreSQL will be used to create the database and create the tables to store user data and calculated data. The user will be able to edit information for their monthly income and monthly expenses by changing the data tables. This project will help me learn about databases in Java and how they can be applied to practical applications such as this one.