

SOFTWARE ENGINEERING

BSCS 6E

Software Project Proposal

BUDGET CONTROL SYSTEM

Group Members:

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- **Problem Statement**

The problem at hand is controlling monthly expenses. To find out where the user's expenses exceed the budget, and to find solutions or alternatives in order to reduce and manage expenses according to the budget set by the user.

- **Project Scope**

The software will take as input daily expenses of the user, and by the end of the month the software calculates total expenses and identifies places from the data it gathered, where the expenses can be reduced by choosing better alternatives.

The software will also take a budget for a potential purchase and would then offer options ranging from cheapest to expensive so that the user can choose what they want to purchase. This way the user can see which product falls within their budget

For example, the user inputs their monthly budget of 3000rs for car engine oil, the software suggests purchasing 4 liters of car engine oil from the company KIXXG for 2800 rs or from the company Havoline for 2500rs. The user picks

one and by the end of the month, software will show an analysis of expenses showing where better and cheaper options could have been chosen, reducing user's expenses and helping them stay on budget in the future.

- **Tools and Technologies that will be used**

We will be taking data from other online stores to help in finding out cheaper and/or better alternatives of several products, services etc.

It will be a web-based application. For the front-end, we will use HTML, CSS, and JavaScript, so that users can view and interact with our website.

We will use C++, Java, C#, C, SQL for backend development. Visual Studio & Microsoft SQL server will be used to compile our code.

- **Review of similar existing projects**

There are several budget trackers available at the moment, like Wallet and Money Manager & Expenses on Google Play Store, which help you commit a specific amount of money for different expenditures, track if you kept within the budget, and summarize your monthly spendings in the form of figures.

Our application, on the other hand, takes the user's budget for a certain expenditure, and shows them the available options in the market in the specified range, helping them to control their budget more practically.