PRO FORMA FOR THE APPROVAL OF THE FINAL SEMESTER PROJECT

(Note: All entries of the pro forma of approval should be filled up with appropriate and complete information. Incomplete Pro forma of approval in any respect will be rejected.)

Project Proposal Number   : _____
(Filled by the Department)

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Academic Year   : 2024-2025

Year of Admission   : 2023

Admission Number   : 18090

Roll Number   20

Register Number   : MES23MCA-2020

1. Name of the Student (in BLOCK LETTERS)   : JASLANA SURAYYA C

2. Name of the Organization   : _____

3. Address of the Organization   : _____

   Telephone No. : _____   Company E-Mail : _____

4. Name of the External Guide   : _____

   Mobile No. : _____   E-Mail : _____

5. Title of the Project   : B U D G E T B U D D Y

6. Name of the Guide   :   DR GEEVAR C ZACHARIAS
   (Internal-Departmet)

Date : _____   Signature of the Student: _____

Comments of The Project Guide

Initial Submission   :

Approval Status   :   Approved / Not Approved   Dated Signature of Guide   HOD

First Review   :

Second Review   :

Third Review   :

Comments of The Project Coordinator

Initial Submission:

First Review :   Second Review: Third Review:

Dated Signature of Project Coordinator:

ABSTRACT
BUDGET BUDDY
JASLANA SURAYYA C, MES23MCA-2020, 20

Introduction

BudgetBuddy is a predictive model developed to assist students in managing their expenses efficiently. By integrating advanced forecasting techniques and utilizing historical financial data, this system allows students to track and manage their daily expenditures. The model automatically recognizes and extracts transaction information from online transaction data, enabling users to view, confirm, and categorize expenses, which then generate detailed expense reports. It also predicts future expenses, helping students make informed financial decisions. Additionally, the system offers categorization features and provides financial advice, enabling users to set budget alerts for when expenses approach or exceed preset limits. The aim of BudgetBuddy is to enhance financial planning and budgeting for students, improving financial sustainability and decision-making.

ExistingSystems

Current systems for managing student expenses typically involve manual tracking or basic budgeting apps that offer limited predictive capabilities. These apps usually require students to input expenses manually, categorize them, and track their spending against preset budgets. Basic features include expense tracking, report generation, and budget alerts. However, they lack advanced features such as predictive analytics, personalized financial advice, and detailed spending visualizations. As a result, students find it difficult to manage their finances effectively and plan for future expenses.

ProposedSystem

The proposed system enhances student financial management by incorporating advanced predictive analytics and automated tracking of daily expenses. Students can log and categorize their expenses, which are then totaled and analyzed. By using historical data, the system predicts future spending trends, provides personalized financial advice, and generates detailed reports on spending patterns. The system also offers budget-setting features and alerts users when they are close to or exceed their budget limits. Integrating various financial data sources, the system provides a complete picture of a student's financial health, promoting proactive and sustainable budgeting for students and administrators.

Relevance

- **Financial Awareness**: Helps students understand and manage their finances more effectively.
- **Proactive Budgeting**: Offers insights into future expenses, promoting informed financial decisions.
- **Personalized Guidance**: Provides tailored financial advice and tips for individual users.
- **Sustainable Financial Management**: Encourages students to adhere to a budget and save money for future expenses.
- **Integrated View**: Combines data from various sources to give a holistic view of students' finances.
- **Automation**: Reduces manual effort in expense tracking by automating categorization and forecasting.

ProblemDefinition

The system aims to address the challenge of managing student expenses by automating expense tracking, categorizing transactions, and predicting future spending patterns. By using historical data, the model offers personalized financial advice and helps students set and adhere to budgets. The inclusion of alert functions for budget limits and forecasting future expenses enables better planning and financial decision-making, thereby improving the overall financial management of students.

Basic Functionalities

- **Expense Tracking**: Automatically track and categorize daily expenses.
- **Forecasting**: Predict future expenses based on historical data.
- **Budget Alerts**: Notify users when they are approaching or exceeding their budget limits.
- **Personalized Financial Advice**: Offer tailored tips for better budgeting and saving.
- **Reporting**: Generate detailed reports of daily and monthly expenses.
- **Integration**: Sync with bank accounts and online transactions for accurate expense tracking.

Tools/Platform, Hardware and Software Requirements

- **Operating System**: Windows 7 or above
- **Technologies Used**: Android
- **Front-End**: HTML, CSS, Bootstrap, JavaScript
- **Back-End**: Python-Django ,Flutter
- **Database**: MySQL
- **IDE**: PyCharm Professional
- **Mobile**: Android-supported mobile phone
- **Hardware**: Processor i3 or above, RAM 4GB, HDD 500GB
- **Web Browser**: Chrome, Explorer, Edge, etc.