# A WEB APPLICATION FOR BUDGET AND EXPENSE TRACKING SYSTEM

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*Abstract*:

*Managingdailyexpensesiscrucialformaintainingfinancialstabilityandachievingorganizationalgoals.Into day'sfast-pacedandcostlybusinessenvironment,it'seasytooverspend without realizing it, leading to financial strain by month-end. To address thischallenge, we introduce the Daily Expenses Tracker (DET), a user-friendly web applicationdesigned to help organizations track and manage their expenses efficiently. DET enablesorganizations to track earnings, categorize expenses, set budgets, and generate insightfulreportstogainacomprehensiveunderstandingofspendingpatternsovertime.Userscandefinecus tom expense categories such as rent, salaries, utilities, maintenance, and more, providingdetailed information to specify each expense entry. One of DET's key features is its focus onuser privacy and data security. The application implements robust encryption protocols andaccesscontrolstosafeguard sensitive financialinformation.The application alsosupports clustering capabilities using the Apriority algorithm, allowing for personalized andadministrativeclusteringofexpenses.Whileinitiallytargetedtowardsnewjobholders,interns,andteen agers,DETissuitableforanyonelookingtotrackandmonitortheirexpenseseffectively. Organizations can sign up, add their expenses, and utilize DET to enhance theirfinancialtracking and decision-making processes.*

*Keywords*: Webapplication,definingexpensecategories,ExpensesManagement

## I INTRODUCTION

A daily expense tracker is a tool used to monitor and manage personal or businessexpensesonaday-to-daybasis.Trackerexpensesdailycanreallyhel pussavelotofmoney.Ithelpsindividuals or organizations keep track oftheir spending, categorizeexpenses, setbudgets and analyze financial habits to make informed decisions. It will be able to generateyour

expense and saving report as time duration you selected. They will be a reminder theywillhelp to savemoney for your pre-defined expenses.

Nowaday'speopleareconcernedaboutregularityoftheirdailyexpenses.Thisisdonemainly for keep a track of the users' daily expenses to have a control of users' monthlyexpenses. We have developed an web application named as "Expense Tracker" and thisapplication is used to manage the user's daily expenses and or any type of organisations in amore coherent and manageable way. This application will help us to reduce the manualcalculations for their daily expenses and also keep the track of the expenses. With the help ofthisapplication,user/organizationcancalculatehistotalexpensesperdayandtheseresults willstored forunique user.

As the traditional methods of budgeting, we need to maintain the Excel sheets, WordDocuments, notes, and files for the user daily and monthly expenses. There is no as such full-fledged solution to keep a track of our daily expenses easily. Keeping a log in diary is a verymonotonousprocessandalsomaysometimesleadintoproblemsduetothemanualcalculations. Looking on all the above given conditions, we are trying to satisfy the userrequirements by building a mobile application which will help them reduces

their burdens."Expense Tracker Application" is an application where one can enter their daily expenses andendofthe day; they know their expenses in charts.

User initially enrols himself in this application so that he could automatically login inusing his username and password into the application. User enters the saving amount initially,followed by setting up the expense limit. Then user adds up expenses on daily basis or as perhis convenience. The application can predict user's income and expenditure more efficiently.SystematicBudgetingandTrackingexpenseisariskyandcrucialtaskinthecaseofmanagingtheexpenditureof organizations.

## II LITERATURE SURVEY

Daily expense trackers are tools designed to help organization monitor and managethem spending habits effectively. This literature review aims to explore the benefits, features,and effectiveness of daily expense trackers in promoting financial awareness and responsiblemoney management. Studies have shown that tracking daily expense can lead to increasefinancialawarenessandimprovedspendinghabits.Bykeepingarecordofdailyexpenditures,Organization gains insights into their spending patterns and can identify areas where they cancutcosts or savemoney.

Digital expense tracking apps offer various features such as Expense categorization,budget setting and financial goal tracking. These apps provide users with real-time updates ontheirfinancialstatus,makingit easiertostaywithin budgetandavoid overspending.

Research suggests that using daily expense tracker can lead to positive changes inspendingbehaviourandfinancialoutcomes. Bymonitoringtheirexpensesregularly,organizationsbecomemoremindfuloftheirfinancialdecisionsandmorelikelytosticktotheirbudget.

Despitetheirbenefits,dailyexpensetrackers mayfacechallengessuchasuserfatigue,data privacy concerns and compatibility issues with different devices. Some users may alsofind it difficult to accurately categorize expenses or remember to input their transactionsregularly.

DailyExpenseTrackervaluabletoolsarepromotingfinancialawarenessandresponsible spending habits. While they offer various benefits, it is essential to address thechallenges and limitations associated with their use to maximize their effectiveness in helpingorganizationsachievetheir financial goals.

Thesestudiesdemonstratetheneedforamorestreamlinedandautomatedapproachtoexpensemanagement.

## III SYSTEM ANALYSIS

### Existingsystem

TheExpensetrackerexistingsystemdoesnotprovidetheuserportabledevicemanagementlevel,existingsystemonlyusedondesktopsoftwaresounabletoupdateanywhere expenses done and unable to update the location of the expense details disruptivethattheproposedsystemprovides.Inexisting,weneedtomaintaintheExcelsheets, CSVfilesfor the user daily, weekly and monthly expenses. In existing, there is no as such completesolutiontokeepatrackofitsdailyexpenseseasily.Todosoapersonastokeepalogina diaryor in a computer system, also all the calculations need to be done by the user which maysometimesresultsinmistakesleadingtolosses.Theexistingsystemisnotuserfriendlybecausedataisnotmaintainedperfectly.Butthis projectwillnothaveanyremindertoremainapersonin a specific date, so that is the only drawback in which the remainder is not present.

Thisprojectwillbeunpopulatedinformationbecauseithassomedisadvantagesbynotremindaperson for each and every month. But it can used to perform calculation on income andexpensesto overcome thisproblem weproposethenewproject.

### ExistingSystem:

There can be many disadvantages of using a manual accounting system. Accounting,for any business, can be a complex undertaking. A manual accounting system requires you tounderstand the accounting process in a way that may be unnecessary with a computerizedaccountingsystem.Thiscanbe anadvantageoradisadvantage,dependingont hepersondoingthe bookkeeping; often, a specially trained professional is needed to ensure that accounting isdone properly. Unrevealing the complexity of your financial records by hand may be timeconsuming.Sinceit takestime to generate reports.

**Proposedsystem**

To reduce manual calculations, we propose an application. This application allows users tomaintain a digital automated diary. Each user will be required to register on the system atregistrationtime,theuserwillbeprovidedid, whichwillbeusedtomaintaintherecordofeac huniqueuser.ExpenseTrackerapplicationwh ichwillkeepatrackofIncome-Expenseofauseronadayto day basis.

The best organizations have a way of tracking and handling these reimbursements. This idealpractice guarantees that the expenses tracked are accurately and in a timely manner. From acompany perspective, timely settlements of these expenses when tracked well will

certainlyboost employees' morale. Additional feature of Expense and income prediction helps to betterbudgetmanagement.

**Advantages:**

Thebestorganizationshaveawayoftrackinga ndhandlingthesereimbursements.Thisideal practice guarantees that the expenses tracked are accurately and in a timelymanner. From a company perspective, timely settlements of these expenses whentrackedwell will certainly boost employees'morale.

Financially AwareandImproveMoneyManagementtrac kingyourexpendituresensuresyouachieveyo urprojectfinancialtargets.Howisthat?Bycle arlyunderstanding your project spending using project budget limits, you can aptly makethenecessary changestocomplete yourprojectwithin time andbudget.

Effective expense tracking and reporting to avoid conflict. As a project manager orbusiness owner, you can set clear policies for the expense types and reimbursementlimits to avoid misunderstandings are about costs. Tracking the project expenses byasking team members to provide receipts is helpful to avoid conflict and maintaincompliancealso.Anexcellentreport ingmechanismisextremelyhelpfulto supportthe amounttobereimbursed toyourteamandalsoinvoicingtoyourcustom

er.

Helps anticipate the costs of similar projects When you formally track and reportexpenses, you have a permanent documentation which helps you correctly anticipateexpensesforsimilarprojectsinthefuture.Thisisevenmoresignificantwhenitcomestobudget-making process.

Tracking the amount of money spent on the projects is important to invoice customersand determine the cost& profitability analysis when your company isprovidingservicestoanothercompany.Ontheotherhand,expensetrackingorinternalprojectisimportantforcostandROIcalculation.Understandinghowthismoneyisbeingutilizedacrosstheprojectissuchasignificantissue.Theconsequencefornotproperlytrackingandreporting project expensesmay leadtobudgetary issues.

## IV SYSTEM DESIGN

**SystemArchitecture:**

**Overview:**

The system architecture and overview of a daily expense tracker is like a digitalnotebook where you can note down all your spending every day. It helps you keep track ofwhereyourmoneygoesandhowmuchyou'respendingondifferentthingslikefood,transportationor entertainment.
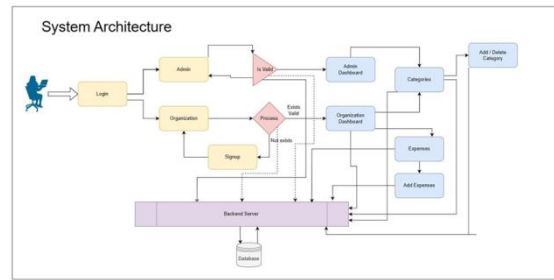


Fig. 1 System architecture diagram

Imaginethetracker asa digitalsystemwithdifferentpartsworkingtogether:

**UserInterface(UI):**Thisiswhatyouseeandinteractwith,likethescreensandbuttonson yourphoneorcomputer.

**Backend:**Thisiswhereallthemagichappens behindthescenes.Itstoresyourdata,doescalculations, and makes sure everything runssmoothly.

**Database:**Thinkofthisasabigfilingcabinetwhereallyourexpenserecordsarestored.Itkeepseverythingorganizedsoyoucaneasilyfindwhatyou'relooking for.

**Integration:**Sometimesthetrackermightconnectwithotherservices,likeyourbankorbudgetingapps,toautomaticallyimporttransactionsorprovideadditionalfeatures.

## V IMPLEMENTATION

**IMPLEMENTATION AND OVERVIEWPROCESSMODELUSED:**

For a daily expense tracker, a suitable process model would be the agile methodology.Agile allows for iterative development and continuous improvement,

which is ideal for aproject like a daily expense tracker where requirements may evolve over time. It involvesbreakingdownthedevelopmentprocessintosmaller,manageableiterationsorsprints,allowingforfrequentfeedbackandadjustments.Thisenablesthedevelopmentteamtoquicklyrespond to changing user needs and adapt the application accordingly. Additionally, Agileencourages collaboration between developers and user's, ensuring that the final product meetstheuser'sexpectations effectively.

**DATACOLLECTIONMETHODS:**

**SOURCEOFDATA**:

-User

**1. MANUAL INPUT:** Users manually enter their daily expenses into the tracker using a webapplication. This method allows for flexibility and customization but

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**VI OUTPUTSCREENS**

**Screens**

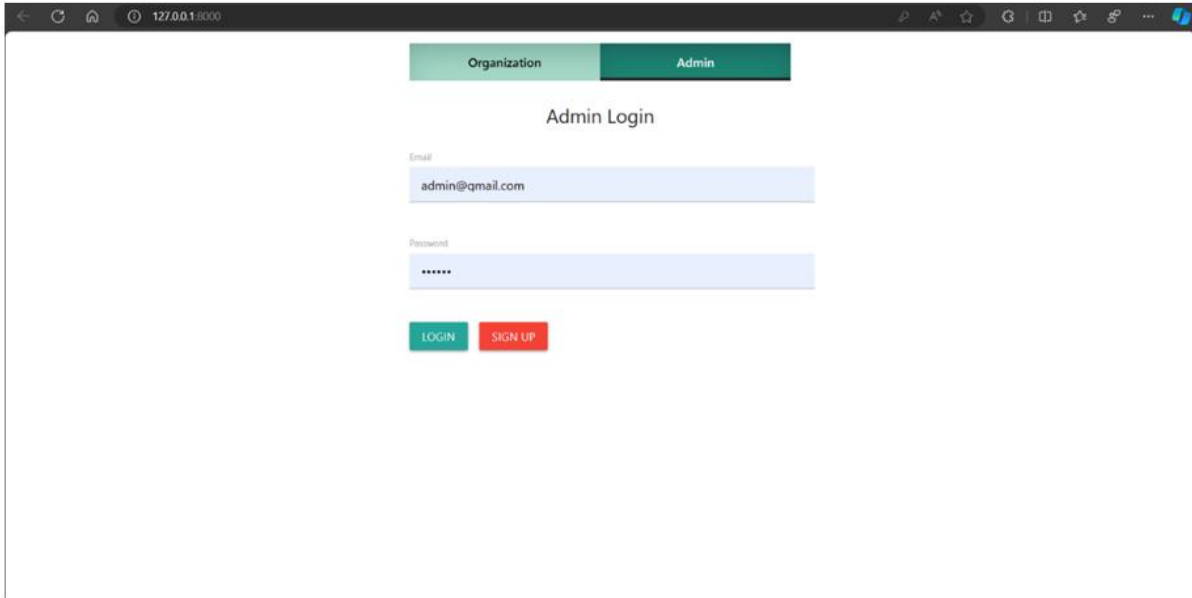relies on consistent userefforts.

**2. BUDGETING DATA:** Users may set budget limits for different expense categories withinthe application. Data related to budget allocations, spending limits and progress towards goalscaninform users about their financial health.

**3. LOCATIONTRACKING:**Forexpensesincurredatphysicallocations,theappcanutilizelocation tracking to suggest nearby merchants or automatically categorize expenses based ontheuser's current location.
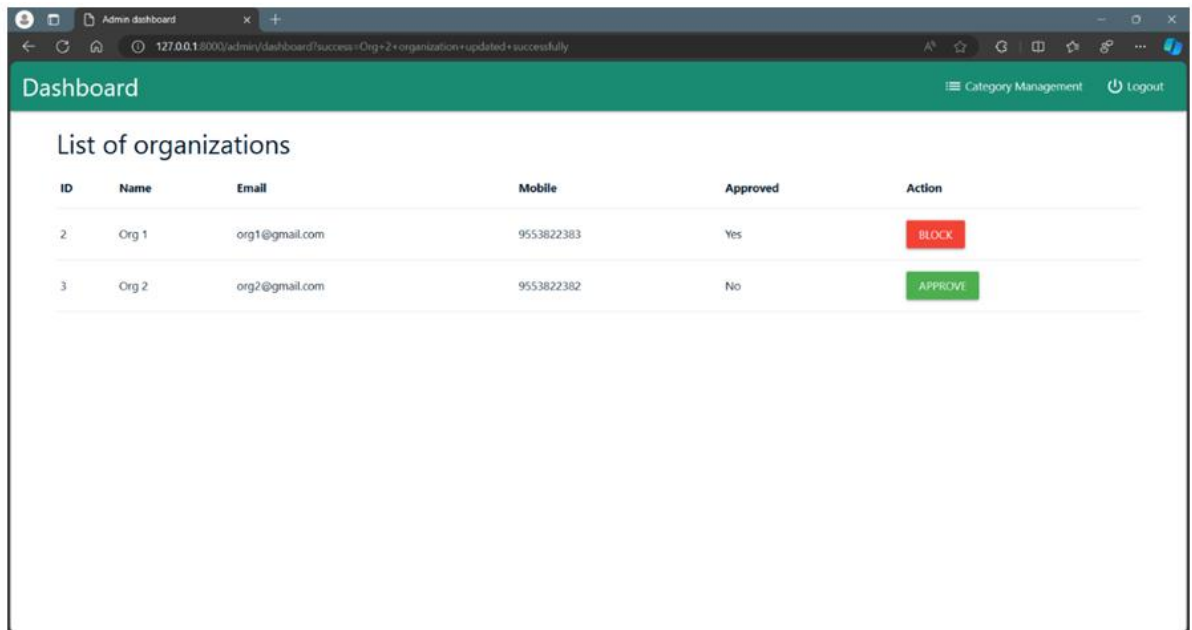
**4. CASHTRANSACTION:**Userscanmanuallyinputcashtransactionsintothetrackerbasedon receipts or memory. While this method requires more effort, it ensures all expenses areaccounted for, includingthose notcaptured through digital transactions.

# Login



# Admin Dashboard
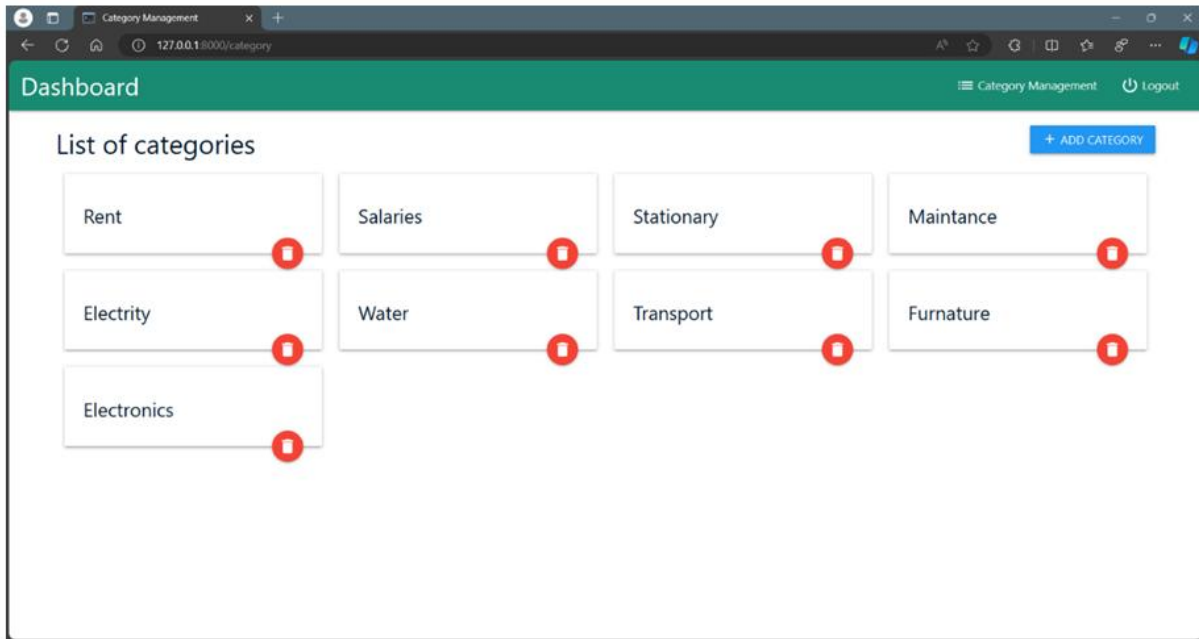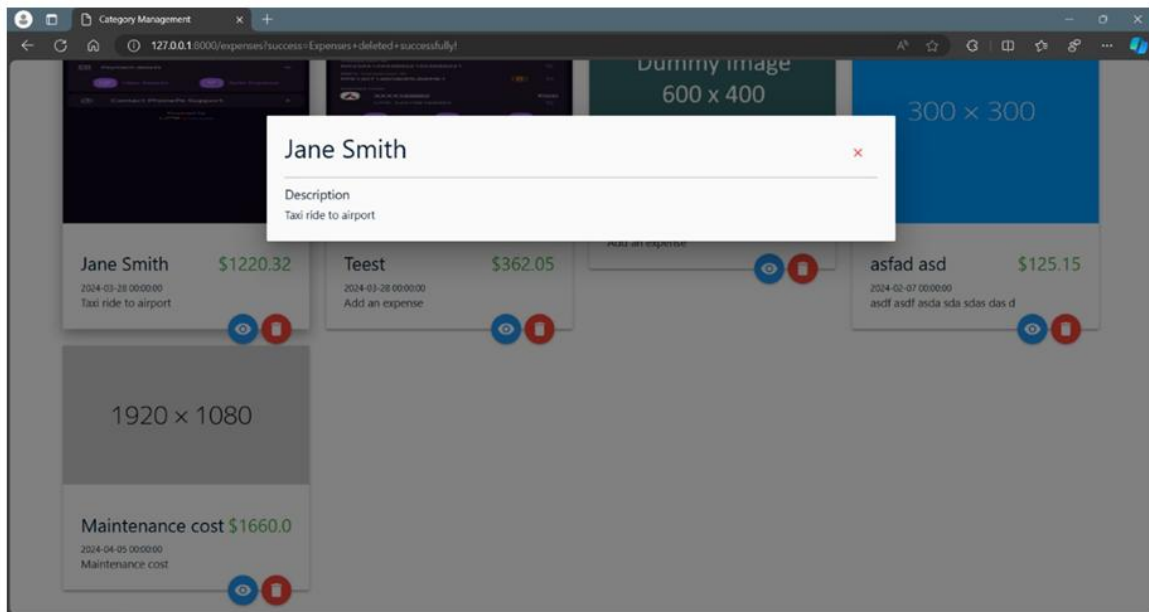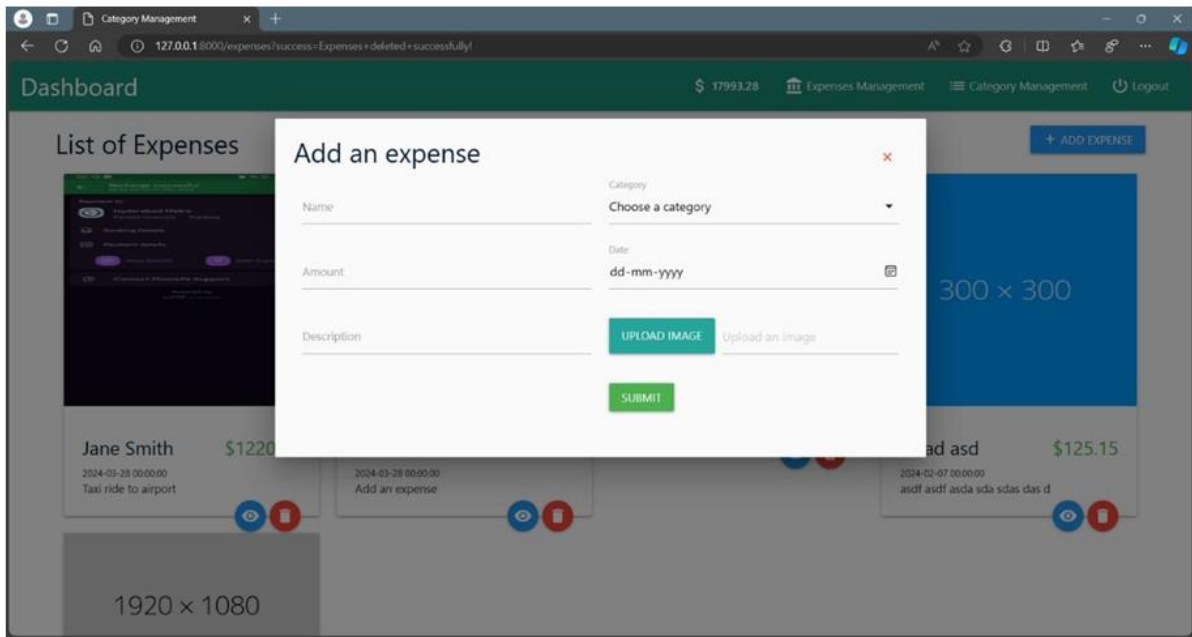
**Category management in Admin dashboard**



**View an expense description**

**Add a new bill/ Expense from organization**

## VII CONCLUSION

Inconclusion,adailyexpensetrackerisavaluabletoolfororganizationtomanagetheirfinanceseffectively.Byaccuratelyrecordingexpenses,userscangaininsightintotheirspending habits, identify areas for savings and maintain better control over their budget. Withtherightfeatures,suchasintuitiveuserinterface,robustbackendfunctionalityandsecuredatamanagement,adailyexpensetrackercan empoweruserstomakeinformedfinancialdecisionsand achievetheirfinancial goals.

Whether it's for personal budgeting, expense tracking for businesses or simply stayingorganized, a well-designed expense tracker can be a practical and essential tool for anyonelookingto managetheirfinanceefficiently.

## VIII FUTUREENHANCEMENT

The Future Enhancements of the application can be allowed to support in all theupcoming android versions. History can be set to view all the details in the app even if theparticular data is deleted from the database. Statistics could be prepared based on the Income,Expensedetailsoftheuser.Sharingfilesviabluetooth,What'sAppcanbeallowed?P

rintingthedetailsoftheparticularincomeorexpensedetailscanbemade.Someofthe extracomponentsare like enabling users to register to the application using existing email or social networkaccount; it will synchronize the users profile data to the application.Building on the corefunctionalities,herearesomeexcitingpossibilitiesforfutureenhancementstoyourbudgetandexpensetracker app:

**AdvancedAnalytics&AIIntegration:**

**PredictiveAnalytics:**LeverageAItopredictfuturespendingpatternsandsuggestareasforpotential cost savings.

**Prescriptive Analytics:** Go beyond prediction with AI-powered recommendations foroptimizingbudgets and resourceallocation.

**SpendCategoryDetection:**UtilizeAItoautomaticallycategorizeexpensesbasedonreceiptinformation, eliminating manual dataentryforusers.

**EnhancedCollaboration&Communication:**

**Real-timeCollaboration:**Allowteamstocollaborateonbudgetsandtracksharedexpensesinreal-time, fosteringtransparencyand accountability.

**InternalChat&Notes:**Integratechatfunctionalitieswithintheappforuserstodiscussexpenses,askquestions,and provide clarifications.

**Integration&Automation:**

**Automatic**

**BankFeedIntegration:**Seamlesslyimporttransactiondatadirectlyfrombankaccounts foreffortlessexpensetracking.

**BillPayIntegration:**Integratewithbillpaymentservicesforautomatedbillpaymentsdirectlywithin the app.

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