

# PERSONAL EXPENSE TRACKER

## PROBLEM STATEMENT

A person who needs an efficient way to maintain their expenses so that he won't want to preserve manually

## DISADVANTAGE OF EXISTING SOLUTION

1. With a large number of transactions, it is difficult to keep track in standard methodologies such as sticky notes and spreadsheet
2. Manual entry is difficult
3. No data analytics feature is available
4. There is no alert notification option in the existing solution
5. No future expense prediction

## PROPOSED SOLUTION

1. Record of user personal expenses
2. SMS tracking ability
3. Future expenses status will be predicted depending on past data
4. Data analytics section with colorful meaningful graphs
5. Notification and Warning through email
6. Monthly Budget details is collected from users to keep track of expenses
7. Edit/delete/add option of expenses
8. A separate account for each person with security authentication

## ADVANTAGES OF THE SOLUTION

1. Better finance management planning so keep track, analyze and optimize budget
2. Collecting user data with authenticated permissions, analyzing & study their expenses pattern in a certain category that can be used for market trends
3. Manual Entry is completely avoided

## FUTURE SOLUTION

Syncing apps with a user's personal email ID or social network account helps to serve better recommendations and personalized marketing campaigns

## TECH STACK

Frontend	HTML , CSS
Backend	Flask - Python
SMS Tracker & email	Twilio & sendgrid
Deployment	Docker & Kubernetes
New Budget Prediction	Linear Regression
Data Analytics & visualization dashboard	Pandas, Matplotlib Numpy & d3.js

## REFERENCES

1. [https://www.researchgate.net/publication/347972162\\_Expense\\_Manager\\_Application](https://www.researchgate.net/publication/347972162_Expense_Manager_Application)
2. Existing Solution Sample - <https://www.spendee.com/>