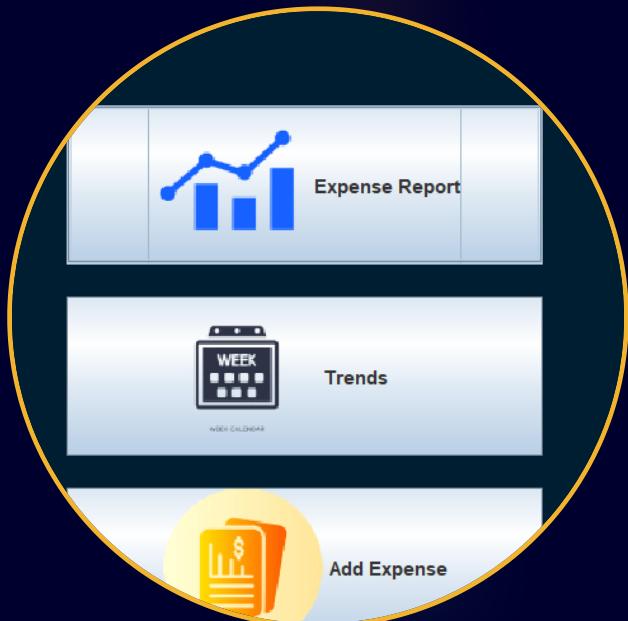




# Budget Management System

A project designed for users to track their daily expenses, view trends and analyze their spending habits.

# Project Overview

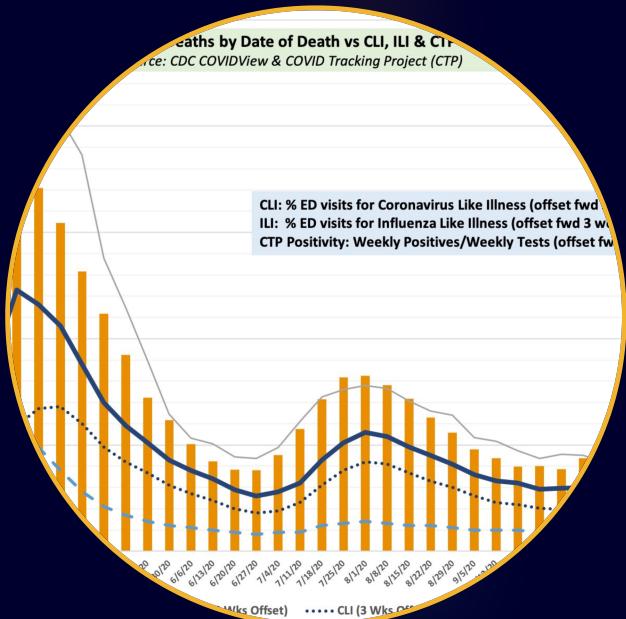


User Interface

The project is designed to provide an easy-to-use user interface with clear graphs and charts for better understanding of spending habits.



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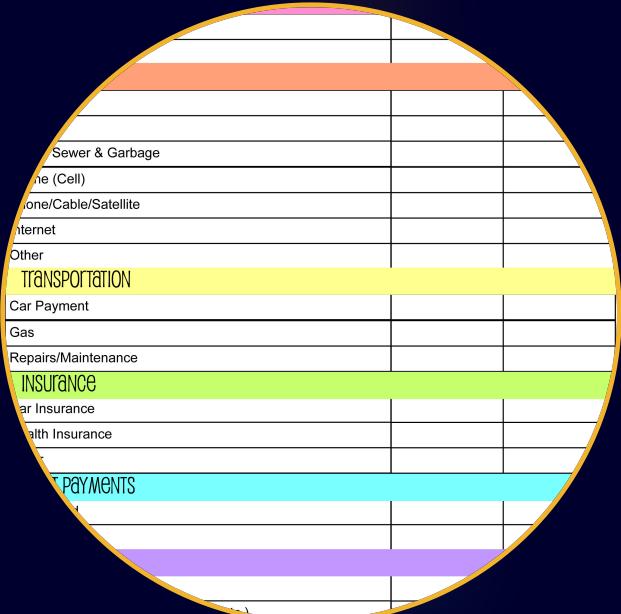


## Future Plan

The project can analyze spending habits and offer insights into user behavior, helping them make better financial decisions.



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## Purpose

Our project aims to help people maintain their budgets and manage their finances in a smart and intuitive way.



# Technical Details

## Programming Language

The project is developed in Java, using Swing Framework for frontend and GUI.

## Libraries

The project uses libraries such as JFrame for frames and widgets and AWT(Abstract Window Toolkit) for showing images and resizing it.

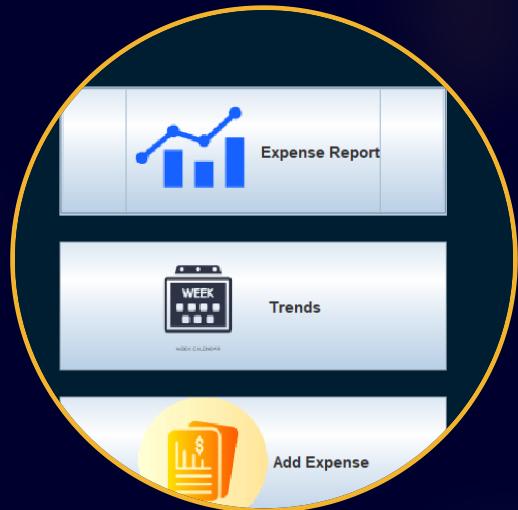
## APIs

In future, The project will integrate with PayPal API for online transactions and Google Maps API for location-based services and much more.

# Modules

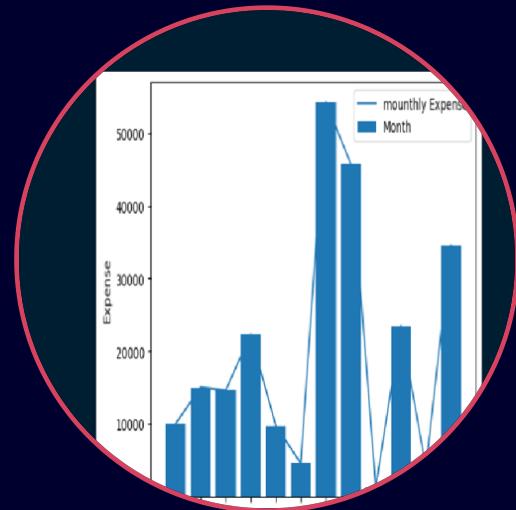
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>Expense Tracker</b>  The core module of the project which allows users to track their expenses.	<b>Graphs &amp; Trends</b>  Generates graphs and charts based on the user's expenses and provides insights into spending habits on a weekly, monthly, and yearly basis.	<b>Article Trend</b>  Allows users to track that how much they spend on which items or purpose.	<b>Add Expense</b>  Allow user to add their expense. User can add purpose that where they spend on and how much

# Demo



## Dashboard View

The dashboard view provides an overview of the user's expenses and their current budget status.



## Graphs View

Graphs and charts provide visual representation of data so that users can quickly identify their spending patterns.

A circular icon representing the add expense view. It features a dark teal background with a white rectangular form. The form has fields for 'Expense Title' (with placeholder 'ex. Electricity Bill') and 'Expense' (with placeholder 'ex. 5769'). A small 'Add' button is at the bottom right. An orange circle highlights the 'Expense' field.

## Add Expense View

The calendar shows the user's schedule of expenses and upcoming due dates for bills.



# Module Details: Expense Report

Description: This module allows users to view their expenses graphically for weekly, monthly, and yearly basis.



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## Key features:

- Graphical representation of expenses: The module displays expenses in the form of line and bar graphs, making it easy for users to visualize their spending patterns.
- Filter by date range: Users can filter their expenses by specifying a date range for the report.
- Detailed breakdown: The module provides a detailed breakdown of expenses for each date range, including the total amount spent and the percentage of spending for each category.



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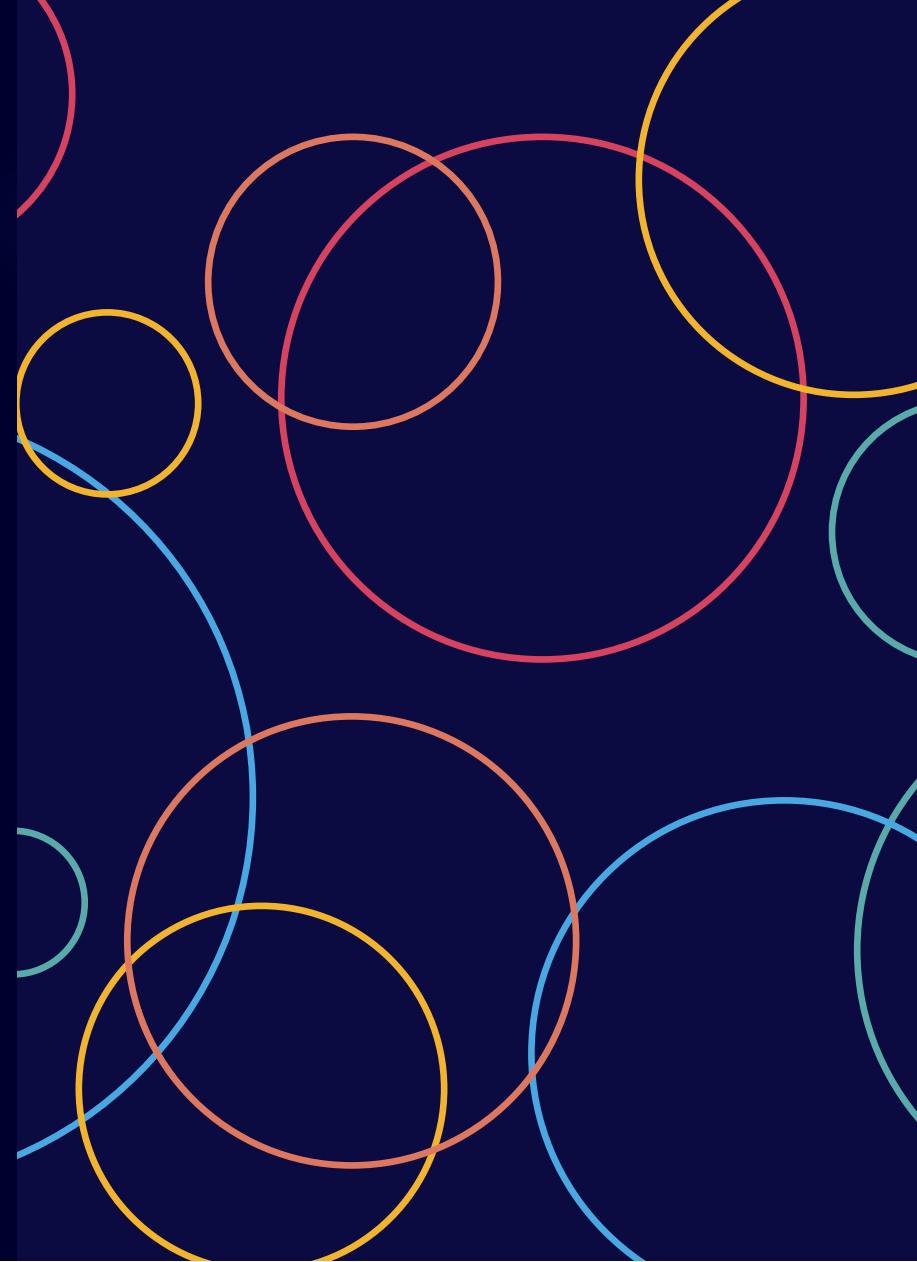
## Benefits:

- Better insight into spending habits: With the graphical representation and detailed breakdown of expenses, users can gain a better understanding of their spending habits and identify areas where they can cut back.
- Easy tracking of progress: Users can track their progress over time by comparing their expenses for different date ranges.

# Module Details: Trend Report

## Description:

- This module allows users to see their spending trend for each item on a weekly, monthly, and yearly basis.
- The trend report shows the average spending for each item, making it easier for users to identify areas where they can cut back on expenses.



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## Functionality:

- Users can enter the title and amount of their expenses in the provided text fields
- Users can click on the "Add" button to add the expense to the database
- The added expense is displayed in a table with the following columns:
  - Expense ID
  - Title of expense
  - Amount of expense
- Users can view all the added expenses by clicking on the "View All" button
- Users can delete any expense by selecting the expense from the table and clicking on the "Delete" button
- Users can update any expense by selecting the expense from the table, making the necessary changes in the text fields, and clicking on the "Update" button.



# Challenges Faced



## Implementing data validation

One of the major challenges in any project that involves user input is data validation. In this project, it is important to ensure that the user enters valid data when adding expenses, as well as to validate input when generating reports.

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## Designing an intuitive user interface

To make the budget management system accessible to a wide range of users, it is important to create a user-friendly and intuitive interface. Achieving this can be a challenge, especially when trying to balance usability with

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## User Experience

We wanted to ensure the app was user-friendly and intuitive, which required several iterations of our design and user interface.

# Future Scope

## Budget Suggestions

Integrating AI to suggest budgets and expenses based on the user's spending habits and income.

## Cash Management

Integrating a feature to manage and track cash transactions so that the user has a complete picture of their finances.

## Predictions

Developing machine learning models to predict future expenses and trends so users can be more proactive in their financial planning.

# Conclusion



## Benefits

Our budget management system provides its users with a clear and accurate view of their financial status, making them more aware of their spending habits and ultimately leading them to better financial management and monetary success.

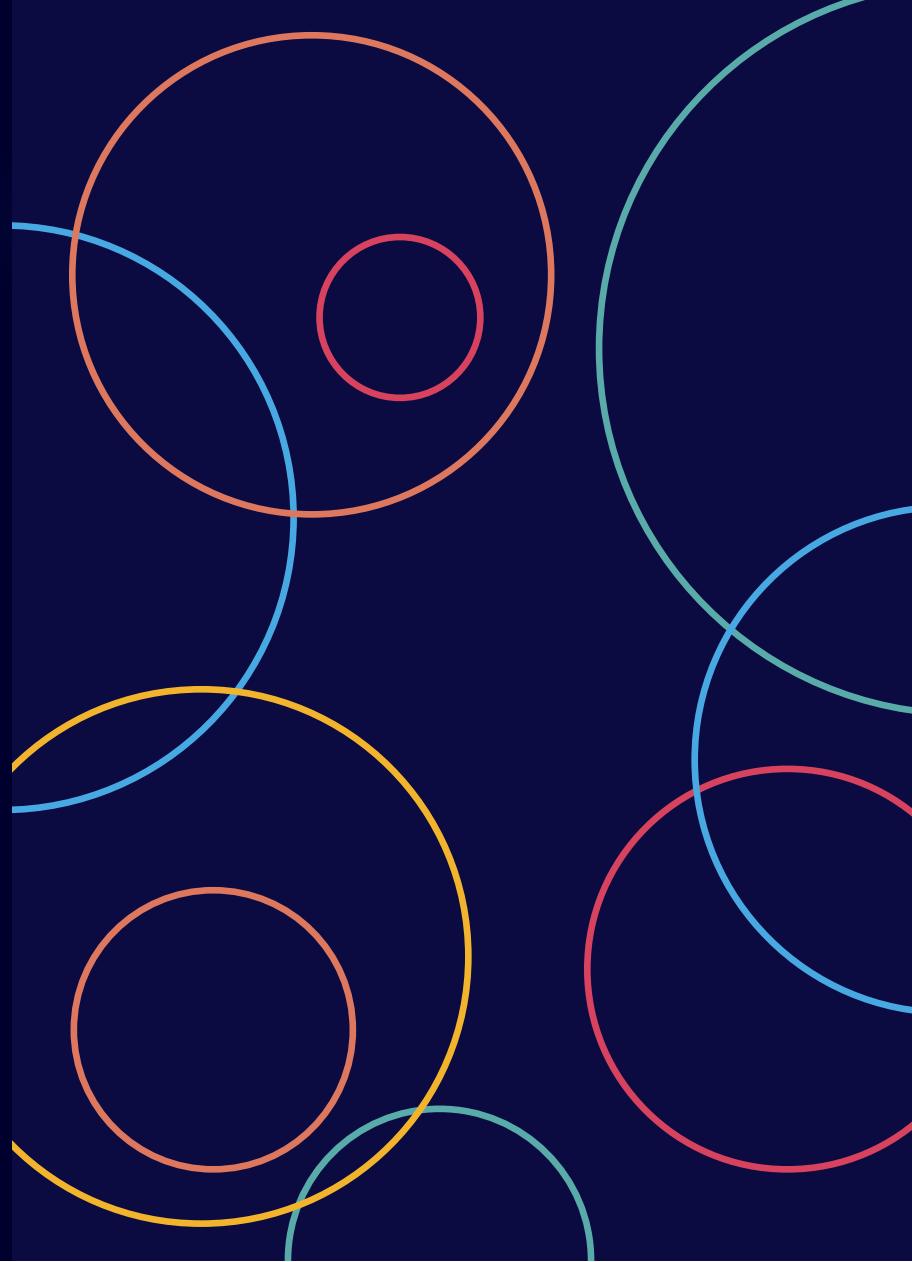


## Usefulness

The project can be highly useful for individuals, students, and small business owners who need to manage their budgets and track their expenses.

# References

The project relies on various resources and materials, including the JFrame swing Framework documentation, geeksforgeeks, javapoints websites, and online tutorials on JFrames.



# Thank You

"I am grateful for the chance to showcase my project to all of you today. Thank you for your presence and attention."