

# TrackMyDollar

Group Number: 42

Team Members:

Sainath Gorige

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# Poster



## Track My Dollar Application (5.0)

### Introduction

Track My Dollar is an intuitive Telegram Bot that simplifies expense tracking on your local system with simple commands, manage your finances effortlessly

### Features

1. **Calendar Feature:** Allows users to select dates for their transactions directly via a calendar interface.
2. **Income Feature:** Tracks income in addition to expenses, allowing better financial planning.
3. **Multi-Currency Feature:** Supports tracking expenses and income in different currencies.
4. **Improved Test Cases and new badges:** Added more robust test cases for increased coverage and Added badges for coverage, static code analysis and Security scans.
5. **Automated Static Code Analysis & Security Scans:** Integrates automatic static code analysis and security scans with GitHub Actions, ensuring code quality.

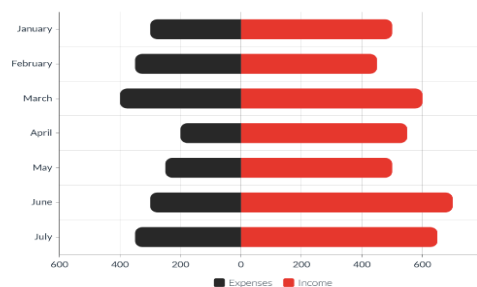
### Future Work

1. **Database integration:** Convert local storage into Database
2. **Income in Different currencies:** Support income in different currencies
3. **Spending Analysis:** Add personalized expense recommendations based on spending patterns

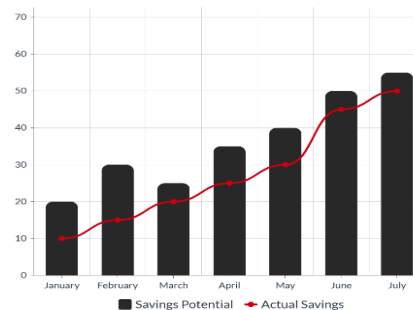
### Team 44

SAINATH GORIGE  
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### Spending Tracking



### Income and Expense Overview



### Github



### Demo



# Project Repository Structure

## Repository Link

GitHub Repository: <https://github.com/sainath199/MyDollarBot-BOTGo>

## Repository Requirements

- **Public Repository:** Accessible to all, allowing potential collaborators to explore and contribute.
- **Security:** Sensitive data such as keys or passwords is omitted or stored securely outside the repo.
- **Branch Management:** New developments are maintained in the main branch of forked repo, ensuring clear tracking of updates.
- **File Structure:**
  - `README.md`: Includes badges for code coverage, static code analysis, and security scans, linked to respective services.
  - `.gitignore`: Standard configuration for excluding unnecessary or sensitive files from the repo.

## Additional Details

- **Parallel Work Evidence:** Individual commits showing contributions from team members.
- **Test Cases:** A minimum of 20 test cases per team member, covering both nominal and off-nominal scenarios to ensure robustness.

## Sustainability Evaluation Table

Criteria	Self-Assessment (Score)	Supporting Links
Project Identity	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo">https://github.com/sainath199/MyDollarBot-BOTGo</a>
Unique project name	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo">https://github.com/sainath199/MyDollarBot-BOTGo</a>
Trademark-free name	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo">https://github.com/sainath199/MyDollarBot-BOTGo</a>

<b>Documentation Quality</b>		
<b>Clear overview on website/docs</b>	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
<b>Quick start guide</b>	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
<b>Detailed usage instructions</b>	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
<b>Troubleshooting guide</b>	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
<b>Availability</b>		
<b>Downloadable package</b>	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo">https://github.com/sainath199/MyDollarBot-BOTGo</a>
<b>Free access</b>	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo">https://github.com/sainath199/MyDollarBot-BOTGo</a>
<b>Public code repository</b>	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo">https://github.com/sainath199/MyDollarBot-BOTGo</a>
<b>Support Systems</b>		
<b>User support description</b>	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
<b>Project-specific email/forum</b>	3	<a href="https://mail.google.com/mail/u/0/?ogbl#chat/space/AAAAIKDEIXE">https://mail.google.com/mail/u/0/?ogbl#chat/space/AAAAIKDEIXE</a>
<b>Multi-person access to support</b>	3	<a href="https://mail.google.com/mail/u/0/?ogbl#chat/space/AAAAIKDEIXE">https://mail.google.com/mail/u/0/?ogbl#chat/space/AAAAIKDEIXE</a>
<b>Public ticketing system</b>	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/issues">https://github.com/sainath199/MyDollarBot-BOTGo/issues</a>
<b>Code Quality</b>		
<b>Automated code analysis</b>	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/actions/runs/11637382999/job/32410">https://github.com/sainath199/MyDollarBot-BOTGo/actions/runs/11637382999/job/32410</a>

		467555
<b>Code coverage badge</b>	3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
<b>New Features (Phase 5)</b>		
<b>Calendar-based date selection</b>	3	<a href="https://www.youtube.com/watch?v=j7wsJHVLurg&amp;ab_channel=SainathGorige">https://www.youtube.com/watch?v=j7wsJHVLurg&amp;ab_channel=SainathGorige</a>
<b>Multi-currency support</b>	3	<a href="https://www.youtube.com/watch?v=j7wsJHVLurg&amp;ab_channel=SainathGorige">https://www.youtube.com/watch?v=j7wsJHVLurg&amp;ab_channel=SainathGorige</a>
<b>Income tracking</b>	3	<a href="https://www.youtube.com/watch?v=j7wsJHVLurg&amp;ab_channel=SainathGorige">https://www.youtube.com/watch?v=j7wsJHVLurg&amp;ab_channel=SainathGorige</a>

Notes	Points	evidence
Workload is spread over the whole team (one team member is often Xtimes more productive than the others...	Sainath: 3 Vishal: 3 Mona: 3	Each member worked on features, docs, fixes & test -> <a href="https://github.com/sainath199/MyDollarBot-BOTGo/pulse">https://github.com/sainath199/MyDollarBot-BOTGo/pulse</a>
but nevertheless, here is a track record that everyone is contributing a lot)	Sainath: 3 Vishal: 3 Mona: 3	evidence in GH
Number of commits	Sainath: 3 Vishal: 3	in GH <a href="https://github.com/sainath199/MyDollarBot-BOTGo/pulse">https://github.com/sainath199/MyDollarBot-BOTGo/pulse</a>

	Mona: 2	
Number of commits: by different people	Sainath: 3 Vishal: 3 Mona: 3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/graphs/commit-activity">https://github.com/sainath199/MyDollarBot-BOTGo/graphs/commit-activity</a>
Issues reports: there are <b>many</b>	Sainath: 3 Vishal: 3 Mona: 2	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/issues">https://github.com/sainath199/MyDollarBot-BOTGo/issues</a>
Issues are being closed	Sainath: 3 Vishal: 3 Mona: 3	5 Issues closed -> <a href="https://github.com/sainath199/MyDollarBot-BOTGo/issues?q=is%3Aopen+is%3Aissue">https://github.com/sainath199/MyDollarBot-BOTGo/issues?q=is%3Aopen+is%3Aissue</a>
Docs: doco generated, format not ugly	Sainath: 3 Vishal: 2 Mona: 3	in GH <a href="https://github.com/sainath199/MyDollarBot-BOTGo/tree/main/docs">https://github.com/sainath199/MyDollarBot-BOTGo/tree/main/docs</a>
Docs: what: point descriptions of each class/function (in isolation)	Sainath: 3 Vishal: 3 Mona: 3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/tree/main/docs">https://github.com/sainath199/MyDollarBot-BOTGo/tree/main/docs</a>

Docs: how: for common use cases X,Y,Z mini-tutorials showing worked examples on how to do X,Y,Z	Sainath: 3 Vishal: 3 Mona: 3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/tree/main/docs">https://github.com/sainath199/MyDollarBot-BOTGo/tree/main/docs</a>
Docs: why: docs tell a story, motivate the whole thing, deliver a punchline that makes you want to rush out and use the thing	Sainath: 3 Vishal: 3 Mona: 3	Updated documentation for each feature -> <a href="https://github.com/sainath199/MyDollarBot-BOTGo/tree/main/docs">https://github.com/sainath199/MyDollarBot-BOTGo/tree/main/docs</a>
Docs: short video, animated, hosted on your repo. That convinces people why they want to work on your code.	Sainath: 3 Vishal: 3 Mona: 3	Added in Readme.md -> <a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
Use of version control tools	Sainath: 3 Vishal: 3 Mona: 3	
Test cases exist	Sainath: 3 Vishal: 3 Mona: 3	111 test cases with coverage > 82% for each file -> <a href="https://github.com/sainath199/MyDollarBot-BOTGo/actions/workflows/test.yml">https://github.com/sainath199/MyDollarBot-BOTGo/actions/workflows/test.yml</a>
Test cases are routinely executed	Sainath: 3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/actions">https://github.com/sainath199/MyDollarBot-BOTGo/actions</a>

	Vishal: 3 Mona: 2	
Issues are discussed before they are closed	Sainath: 3 Vishal: 3 Mona: 3	Each issue is updated with the discussion before closing and comments added ->  <a href="https://github.com/sainath199/MyDollarBot-BOTGo/issues">https://github.com/sainath199/MyDollarBot-BOTGo/issues</a>
Chat channel: exists	Sainath: 3 Vishal: 3 Mona: 3	
Test cases: a large proportion of the issues related to handling failing cases.	Sainath: 3 Vishal: 3 Mona: 3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/tree/main/test">https://github.com/sainath199/MyDollarBot-BOTGo/tree/main/test</a>
Evidence that the whole team is using the same tools: everyone can get to all tools and files	Sainath: 3 Vishal: 3 Mona: 2	
Evidence that the whole team is using the same tools (e.g. config files in the repo, updated by lots of different people)	Sainath: 3 Vishal: 3	



	Mona: 3	
Evidence that the whole team is using the same tools (e.g. tutor can ask anyone to share screen, they demonstrate the system running on their computer)	Sainath: 3 Vishal: 3 Mona: 3	
Evidence that the members of the team are working across multiple places in the code base	Sainath: 3 Vishal: 3 Mona: 3	
Short release cycles	Sainath: 3 Vishal: 3 Mona: 2	
The file .gitignore lists what files should not be saved to the repo. See [examples](https://github.com/github/gitignore)	Sainath: 3 Vishal: 3 Mona: 3	in GH <a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/.gitignore">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/.gitignore</a>
The file INSTALL.md lists how to install the code	Sainath: 3 Vishal: 2 Mona: 3	in GH <a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/requirements.txt">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/requirements.txt</a>

The file LICENSE.md lists rules of usage for this repo	Sainath: 3 Vishal: 3 Mona: 3	in GH  <a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/LICENSE">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/LICENSE</a>
The file CODE-OF-CONDUCT.md lists rules of behavior for this repo; e.g. see <a href="#">example</a>	Sainath: 3 Vishal: 3 Mona: 3	in GH  <a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/CODE_OF_CONDUCT.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/CODE_OF_CONDUCT.md</a>
The file CONTRIBUTING.md lists coding standards and lots of tips on how to extend the system without screwing things up; e.g. see <a href="#">example</a>	Sainath: 3 Vishal: 3 Mona: 3	in GH  <a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/CONTRIBUTING.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/CONTRIBUTING.md</a>
The file README.md contains all the following	Sainath: 3 Vishal: 3 Mona: 3	in GH  <a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
Video	Sainath: 3 Vishal: 3 Mona: 3	<a href="https://www.youtube.com/watch?v=j7wsJHVIurg">https://www.youtube.com/watch?v=j7wsJHVIurg</a>
DOI badge: exists. To get a Digital Object Identifier, register the project at <a href="#">Zenodo</a> . DOI badges look like this:	Sainath: 3 Vishal: 3	in GH

	Mona: 3	
Badges showing your style checkers	Sainath: 3 Vishal: 3 Mona: 3	config files in GH showing your config, badges in README  <a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
Badges showing your code formatters.	Sainath: 3 Vishal: 3 Mona: 3	config files in GH showing your this formatter's config, badges in README  <a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
Badges showing your syntax checkers.	Sainath: 3 Vishal: 2 Mona: 3	config files in GH showing this checker's config, badges in README  <a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
Badges showing your code coverage tools	Sainath: 3 Vishal: 3 Mona: 3	config files in GH, badges in README  <a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
Badges showing any other Other automated analysis tools	Sainath: 3 Vishal: 3	config files in GH, badges in README

	Mona: 3	<a href="https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md">https://github.com/sainath199/MyDollarBot-BOTGo/blob/main/README.md</a>
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**Total Score: 10/10**

## Summary of New Phase 5 Features

- 1. Calendar Feature:** Select dates directly using a calendar interface for easier and accurate entry.
- 2. Income Tracking:** Record and monitor income alongside expenses for better budgeting.
- 3. Multi-Currency Support:** Handle transactions in various currencies to accommodate a global audience.
- 4. Improved Testing and Badges:** Added robust test cases and badges for code quality, test coverage, and security checks.
- 5. Automated Static Code Analysis:** Integrated GitHub Actions for automated quality and security checks.

## Installation and Setup Guide

- 1. Clone the Repository:** Clone the project to your local machine.

Unset

```
git clone https://github.com/YourRepoLink/TrackMyDollar.git
```

- 2. Install Dependencies:** Navigate to the project directory and install required packages.

Unset

```
pip install -r requirements.txt
```

### 3. Create a Telegram Bot:

- In Telegram, open BotFather and create a new bot using `/newbot` command.
- Save the API token provided.

### 4. Configure the Token: Add your bot token to `user.properties` in the format `api\_token=<your\_token>`.

### 5. Run the Bot: Execute the bot using the provided script.

Unset

```
./run.sh
```

### 6. Testing: Use pytest to run tests.

Unset

```
python -m pytest test/
```