


Poster









MONEY MANAGER

Fresh Updates Unveiled

Meet Your Money Manager

Money Manager is a versatile financial management tool built on a REST API architecture with MongoDB, providing efficient client-server interactions and cross-platform compatibility. It supports multiple currencies, checking and savings accounts, and features robust OAuth 2.0-based user authentication. A Telegram bot serves as a proof of concept for real-time financial management within messaging environments. Future plans include integrating with platforms like Discord and WhatsApp, developing a web UI, and enhancing analytics and group expense tracking.

Coding Arsenal



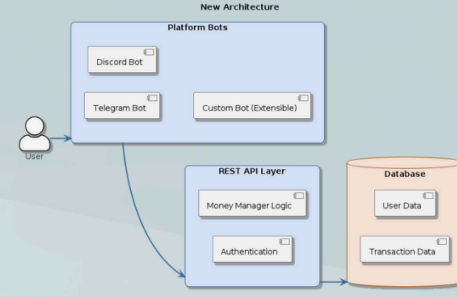
Project Evolution

- REST API Development:** The codebase was refactored from scratch to implement a REST API architecture with a new MongoDB database. This overhaul enhances client-server efficiency, boosts cross-platform compatibility, and allows developers to easily integrate financial management features across different platforms, ensuring seamless user experiences and adaptable development.
- Cross-Platform Functionality:** The application is meticulously designed for multi-platform deployment, leveraging responsive design principles to deliver a uniform and intuitive user experience across various environments, like Telegram, Discord, WhatsApp, or your own application!
- User Authentication:** We integrated robust user authentication mechanisms utilizing OAuth 2.0 protocols, reinforcing the security framework to protect sensitive financial data. All the API transactions happens on token based authentication.
- Telegram Bot as a Proof of Concept:** The Telegram bot was developed as a proof of concept to validate the architecture's capability. It showcases real-time account access and interaction within a familiar messaging environment, underscoring our focus on user-centered design and engagement.
- Expense Analytics Reimplementation:** The expense analytics feature was completely re-engineered in the new architecture, providing users with sophisticated tools for tracking and analyzing spending behaviors.


Innovation Ahead

- External Integration:** Future efforts can focus on developing integrations with popular messaging platforms such as Discord, WhatsApp, and Slack. This will enable users to access financial management functionalities and receive notifications seamlessly within their preferred communication environments, thereby enhancing overall user engagement and accessibility.
- UI/Website Development:** There is an opportunity to design and implement a user-friendly web application featuring an intuitive interface. This development will complement the existing bot by providing users with streamlined access to their financial data and resources, significantly improving the overall user experience.
- Wholesome Telegram Bot:** The current Telegram bot serves primarily as a proof of concept. Future iterations could involve rigorous testing and iterative enhancements to ensure reliability and comprehensive functionality, ultimately elevating user satisfaction.
- Enhanced REST Feature Set:** The project has the potential to expand its feature offerings. Key areas for development may include the implementation of more advanced analytics capabilities, allowing users to derive deeper insights into their financial behaviors. Furthermore, the addition of CSV import/export functionality could facilitate efficient data transfer. Enhancements in group expense tracking should also be considered, with features such as automated bill splitting and real-time updates, as well as the integration of payment platforms for streamlined settlement among participants.


New Architecture




"API!"



"Dev?"



"Demo?"



GROUP 27: GIT SET GO PACK

- Abhishek Rao (arao23)
- Umang Diyora (udiyora)
- Astha Bhalodiya (abhalod)

Link to Repository and Video

Repository: <https://github.com/gitsetgopack/MoneyManager>

Video: <https://go.abhirao.in/se24fall/p2/video>

API: <https://go.abhirao.in/se24fall/p2/api>

Telegram Bot: <https://go.abhirao.in/se24fall/p2/telegrambot>

Rubric Table

Column 1	Column 2	Column 3
Workload is spread over the whole team	3	https://img.shields.io/github/commits-since/gitsetgopack/MoneyManager/v2023.f.3.svg?style=plastic
Number of commits	3	https://img.shields.io/github/commits-since/gitsetgopack/MoneyManager/v2023.f.3.svg?style=plastic
Number of commits: by different people	3	https://github.com/gitsetgopack/MoneyManager/graphs/contributors?from=7%2F27%2F2024
Issues reports: there are many	3	https://github.com/gitsetgopack/MoneyManager/issues
Issues are being closed	3	https://github.com/gitsetgopack/MoneyManager/issues?q=is%3Aissue+is%3Aclosed
Docs: doco generated, format not ugly	3	fastapi/swagger
Docs: what: point descriptions of each class/function (in isolation)	3	https://github.com/gitsetgopack/MoneyManager
Docs: how: for common use cases X,Y,Z mini-tutorials showing worked examples on how to do X,Y,Z	3	https://github.com/gitsetgopack/MoneyManager
Docs: why: docs tell a story,	1	https://github.com/gitsetgopack/MoneyManager

motivate the whole thing, deliver a punchline that makes you want to rush out and use the thing		ck/MoneyManager
Docs: short video, animated, hosted on your repo. That convinces people why they want to work on your code.	3	https://github.com/gitsetgopa ck/MoneyManager/blob/release/2024.2/README.md
Use of version control tools	3	https://github.com/gitsetgopa ck/MoneyManager/blob/release/2024.2/README.md
Test cases exist	3	https://github.com/gitsetgopa ck/MoneyManager
Test cases are routinely executed	3	https://github.com/gitsetgopa ck/MoneyManager
Issues are discussed before they are closed	3	https://drive.google.com/file/d/1fq5aESTEi97eZfUHNUNiYzxMNcla50mD/view?usp=sharing
Chat channel: exists	3	https://discord.gg/UgZpqEPg
Test cases: a large proportion of the issues related to handling failing cases.	3	https://github.com/gitsetgopa ck/MoneyManager
Evidence that the whole team is using the same tools: everyone can get to all tools and files	3	https://github.com/gitsetgopa ck/MoneyManager/graphs/contributors?from=7%2F27%2F2024
Evidence that the members of the team are working across multiple places in the code base	3	https://github.com/gitsetgopa ck/MoneyManager/graphs/contributors?from=7%2F27%2F2024
Short release cycles	3	https://github.com/gitsetgopa ck/MoneyManager/graphs/contributors?from=7%2F27%2F2024
The file .gitignore lists what files should not be saved to	3	https://github.com/gitsetgopa ck/MoneyManager/blob/release

the repo. See [examples]i(https://github.com/github/gitignore)		se/2024.2/.gitignore
The file INSTALL.md lists how to install the code	3	https://github.com/gitsetgopack/MoneyManager/blob/release/2024.2/INSTALL.md
The file LICENSE.md lists rules of usage for this repo	3	https://github.com/gitsetgopack/MoneyManager/blob/release/2024.2/LICENSE
The file CODE-OF-CONDUCT.md lists rules of behavior for this repo; e.g. see example	3	https://github.com/gitsetgopack/MoneyManager/blob/release/2024.2/CODE_OF_CONDUCT.md
The file CONTRIBUTING.md lists coding standards and lots of tips on how to extend the system without screwing things up; e.g. see example	3	https://github.com/gitsetgopack/MoneyManager/blob/release/2024.2/CONTRIBUTING.md
The file README.md contains all the following	3	https://github.com/gitsetgopack/MoneyManager/blob/release/2024.2/README.md
Video	3	https://go.abhirao.in/se24fall/p2/video
DOI badge: exists. To get a Digital Object Identifier, register the project at Zenodo. DOI badges look like this:	3	https://zenodo.org/records/14027400
Badges showing your style checkers	3	https://github.com/gitsetgopack/MoneyManager?tab=readme-ov-file#quality
Badges showing your code formatters.	3	https://github.com/gitsetgopack/MoneyManager?tab=readme-ov-file#quality
Badges showing your syntax checkers.	3	https://github.com/gitsetgopack/MoneyManager?tab=readme-ov-file#quality

Badges showing your code coverage tools	3	https://github.com/gitsetgopack/MoneyManager?tab=readme-ov-file#quality
Badges showing any other Other automated analysis tools	3	https://github.com/gitsetgopack/MoneyManager?tab=readme-ov-file#quality
Does your website and documentation provide a clear, high-level overview of your software?	3	https://github.com/gitsetgopack/MoneyManager?tab=readme-ov-file#money-manager
Does your website and documentation clearly describe the type of user who should use your software?	3	https://github.com/gitsetgopack/MoneyManager?tab=readme-ov-file#money-manager
Do you publish case studies to show how your software has been used by yourself and others?	3	https://github.com/gitsetgopack/MoneyManager?tab=readme-ov-file#money-manager
Is the name of your project/software unique?	2	https://github.com/gitsetgopack/MoneyManager?tab=readme-ov-file#money-manager
Is your project/software name free from trademark violations?	0	Duh!
Is your software available as a package that can be deployed without building it?	3	https://github.com/gitsetgopack/MoneyManager/blob/release/2024.2/INSTALL.md
Is your software available for free?	3	https://github.com/gitsetgopack/MoneyManager
Is your source code publicly available to download, either as a downloadable bundle or via access to a source code repository?	3	https://github.com/gitsetgopack/MoneyManager
Is your software hosted in an established, third-party repository like GitHub	3	https://github.com/gitsetgopack/MoneyManager

(https://github.com), BitBucket (https://bitbucket.org),Launch Pad (https://launchpad.net) orSourceForge (https://sourceforge.net)?		
Is your documentation clearly available on your website or within your software?	3	Docstrings within and FASTAPI /docs
Does your documentation include a "quick start" guide, that provides a short overview of how to use your software with some basic examples of use?	3	https://github.com/gitsetgopack/MoneyManager/blob/release/2024.2/INSTALL.md/blob/release/2024.2/INSTALL.md
If you provide more extensive documentation, does this provide clear, step-by-step instructions on how to deploy and use your software?	3	https://github.com/gitsetgopack/MoneyManager
Do you provide a comprehensive guide to all your software's commands, functions and options?	3	https://github.com/gitsetgopack/MoneyManager
Do you provide troubleshooting information that describes the symptoms and step-by-step solutions for problems and error messages?	3	https://github.com/gitsetgopack/MoneyManager
If your software can be used as a library, package or service by other software, do you provide comprehensive API documentation?	3	https://github.com/gitsetgopack/MoneyManager
Do you store your documentation under revision control with your source code?	3	https://github.com/gitsetgopack/MoneyManager

Do you publish your release history e.g. release data, version numbers, key features of each release etc. on your web site or in your documentation?	3	https://github.com/gitsetgopack/MoneyManager/releases
Does your software describe how a user can get help with using your software?	3	https://github.com/gitsetgopack/MoneyManager/issues
Does your website and documentation describe what support, if any, you provide to users and developers?	3	https://github.com/gitsetgopack/MoneyManager/issues
Does your project have an e-mail address or forum that is solely for supporting users?	3	umangdiyora8042@gmail.com
Are e-mails to your support e-mail address received by more than one person?	3	umangdiyora8042@gmail.com
Does your project have a ticketing system to manage bug reports and feature requests?	3	https://github.com/gitsetgopack/MoneyManager/issues
Is your project's ticketing system publicly visible to your users, so they can view bug reports and feature requests?	3	https://github.com/gitsetgopack/MoneyManager/issues
Is your software's architecture and design modular?	3	https://github.com/gitsetgopack/MoneyManager/tree/release/2024.2/api
Does your software use an accepted coding standard or convention?	3	Black Formatting
Does your software allow data to be imported and exported using open data formats?	0	No

e.g. GIF, SVG, HTML, XML, tar, zip, CSV, JSON, NetCDF, or domain specific ones		
Does your software allow communications using open communications protocols? e.g. HTTP, FTP, XMPP, SOAP over HTTP, or domain-specific ones	3	REST API applications
Is your software cross-platform compatible?	3	REST API applications
Does your software adhere to appropriate accessibility conventions or standards?	3	Yes
Does your documentation adhere to appropriate accessibility conventions or standards?	3	Swagger
Is your source code stored in a repository under revision control?	0	No, but GIT
Is each source code release a snapshot of the repository?	0	No
Are releases tagged in the repository?	3	Yes
Is there a branch of the repository that is always stable? (i.e. tests always pass, code always builds successfully)	3	https://github.com/gitsetgopack/MoneyManager/releases
Do you back-up your repository?	3	GIT
Do you provide publicly-available instructions for building your	3	https://github.com/gitsetgopack/MoneyManager/blob/release/2024.2/CODE_OF_CONDUCT.md

software from the source code?		UCT.md
Can you build, or package, your software using an automated tool?	3	make install
Do you provide publicly-available instructions for deploying your software?	3	make run
Does your documentation list all third-party dependencies?	3	https://github.com/gitsetgopack/MoneyManager/blob/release/2024.2/requirements.txt
Does your documentation list the version number for all third-party dependencies?	3	https://github.com/gitsetgopack/MoneyManager/blob/release/2024.2/requirements.txt
Does your software list the web address, and licences for all third-party dependencies and say whether the dependencies are mandatory or optional?	3	https://github.com/gitsetgopack/MoneyManager/blob/release/2024.2/requirements.txt
Can you download dependencies using a dependency management tool or package manager?	3	make install with pip
Do you have tests that can be run after your software has been built or deployed to show whether the build or deployment has been successful?	3	Pre-commit with pytest
Do you have an automated test suite for your software?	3	https://github.com/gitsetgopack/MoneyManager
Do you have a framework to periodically (e.g. nightly) run your tests on the latest version of the source code?	3	https://github.com/gitsetgopack/MoneyManager

Do you use continuous integration, automatically running tests whenever changes are made to your source code?	3	https://github.com/gitsetgopack/MoneyManager
Are your test results publicly visible?	3	https://github.com/gitsetgopack/MoneyManager
Are all manually-run tests documented?	2	https://github.com/gitsetgopack/MoneyManager
Does your project have resources (e.g. blog, Twitter, RSS feed, Facebook page, wiki, mailing list) that are regularly updated with information about your software?	0	
Does your website state how many projects and users are associated with your project?	0	
Do you provide success stories on your website?	0	
Do you list your important partners and collaborators on your website?	0	
Do you list your project's publications on your website or link to a resource where these are available?	2	https://github.com/gitsetgopack/MoneyManager
Do you list third-party publications that refer to your software on your website or link to a resource where these are available?	0	
Can users subscribe to notifications to changes to your source code repository?	0	
If your software is developed	3	https://github.com/gitsetgopack/MoneyManager

as an open source project (and, not just a project developing open source software), do you have a governance model?		ck/MoneyManager
Do you accept contributions (e.g. bug fixes, enhancements, documentation updates, tutorials) from people who are not part of your project?	3	https://github.com/gitsetgopack/MoneyManager
Do you have a contributions policy?	3	https://github.com/gitsetgopack/MoneyManager
Is your contributions' policy publicly available?	3	https://github.com/gitsetgopack/MoneyManager
Do contributors keep the copyright/IP of their contributions?	0	
Does your website and documentation clearly state the copyright owners of your software and documentation?	3	https://github.com/gitsetgopack/MoneyManager
Does each of your source code files include a copyright statement?	3	https://github.com/gitsetgopack/MoneyManager/blob/ab-changes/api/app.py
Does your website and documentation clearly state the licence of your software?	3	https://github.com/gitsetgopack/MoneyManager?tab=Unlicense-1-ov-file#readme
Is your software released under an open source licence?	3	https://github.com/gitsetgopack/MoneyManager?tab=Unlicense-1-ov-file#readme
Is your software released under an OSI-approved open-source licence?	3	https://github.com/gitsetgopack/MoneyManager/blob/ab-changes/api/app.py
Does each of your source code files include a licence header?	3	https://github.com/gitsetgopack/MoneyManager/blob/ab-changes/api/app.py

Do you have a recommended citation for your software?	3	https://github.com/gitsetgopack/MoneyManager/blob/release/2024.2/README.md
Does your website or documentation include a project roadmap (a list of project and development milestones for the next 3, 6 and 12 months)?	0	
Does your website or documentation describe how your project is funded, and the period over which funding is guaranteed?	0	
Do you make timely announcements of the deprecation of components, APIs, etc.?	3	https://github.com/gitsetgopack/MoneyManager
Total	262/306	