

App development project
Open university
Spring 2023

MoneyMate

Milestone 1 - POC

AGENDA



1. The Project
2. User Roles
3. Feature list
4. MVP
5. Market research
6. Efficiency



OUR TEAM



SAGIV ABU



ALAN SCHIOJETMAN



NOAM SADEH



DANIEL MAREK



BEN SLEVIN

THE PROBLEM



Keeping track of shared expenses in a convenient and organized way

OUR SOLUTION



The project will include a bot in one of the messaging apps (Telegram) that will track the expenses of the users in the group and display them on a website for analysis

USER ROLES



ADMIN

- Monitors all groups in UI
- Bot handling and category management

USER

- View of dashboard in all groups user is included

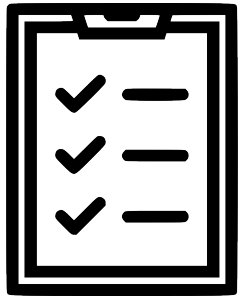
FEATURE LIST MUST HAVE



- Telegram chat bot
- Supports both group and private chat
- Admin capabilities: data manipulation
- User capabilities: data insertion
- UI dashboard with summaries of the expenses
- Expense tracker
- Analytic graphs
- Group & user hierarchy
- DB manipulation



FEATURE LIST NICE TO HAVE



- Savings goals
- Add income
- Break even
- Access to site via bot – no credentials required
- Cyclic payments
- UI – payments breakdown

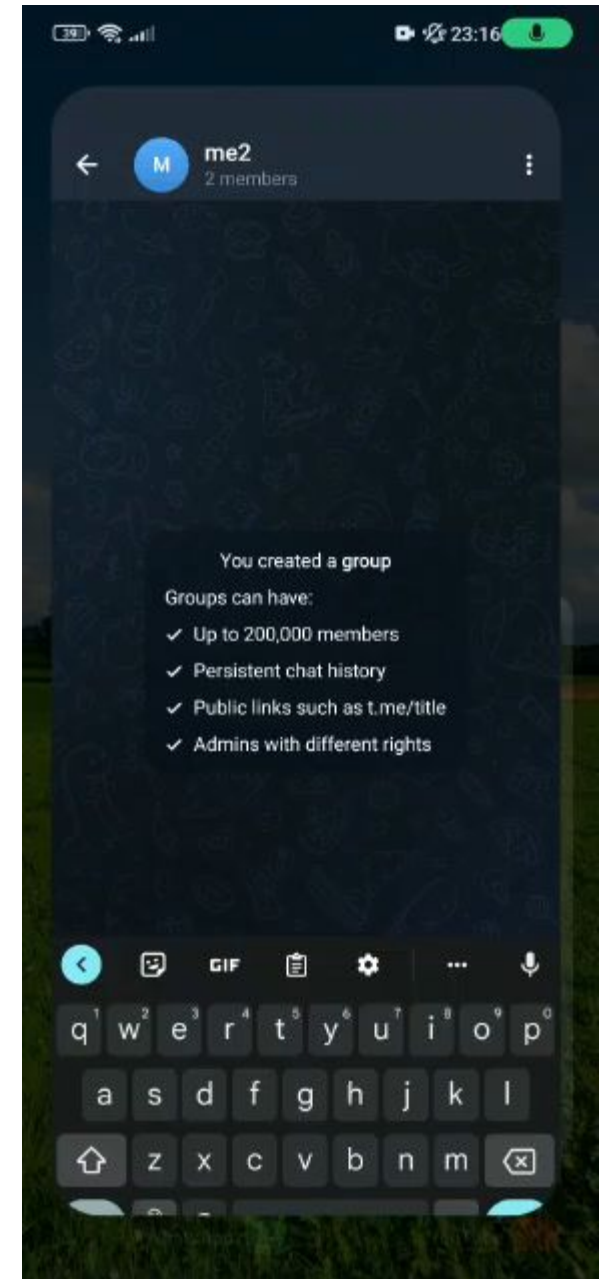
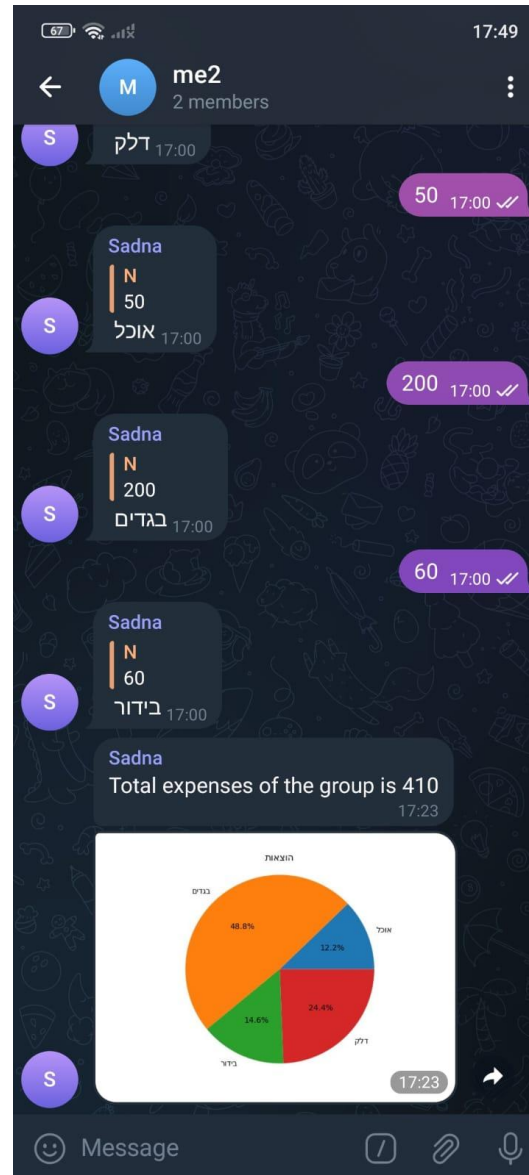
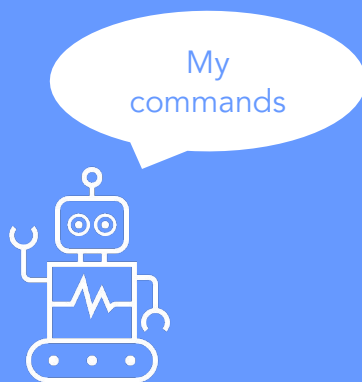




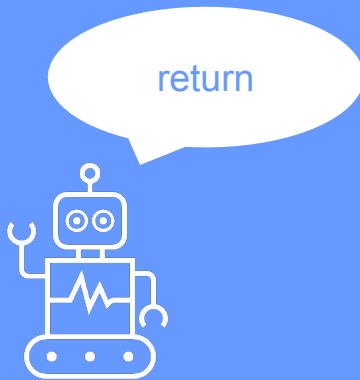
MVP



BOT VIEW



BOT COMMANDS



- / - show command list
- new - add a new expense
- sum - get the total expenses in a specific month or year in a pie chart histogram
- list - get a list of all your expenses in a specific month or year
- export - export the expenses of a given month as excel file
- stop - cancel a recurring expense
- help - get information about how to use the bot
- Nice to have – send UI link
- Nice to have – Delete – admin only

logo

Login Page

E-mail:

email@email.com

Login

logo

* Group & user are DDL

logout

Group:

user:

Date filters:

*Admin user can see
all groups

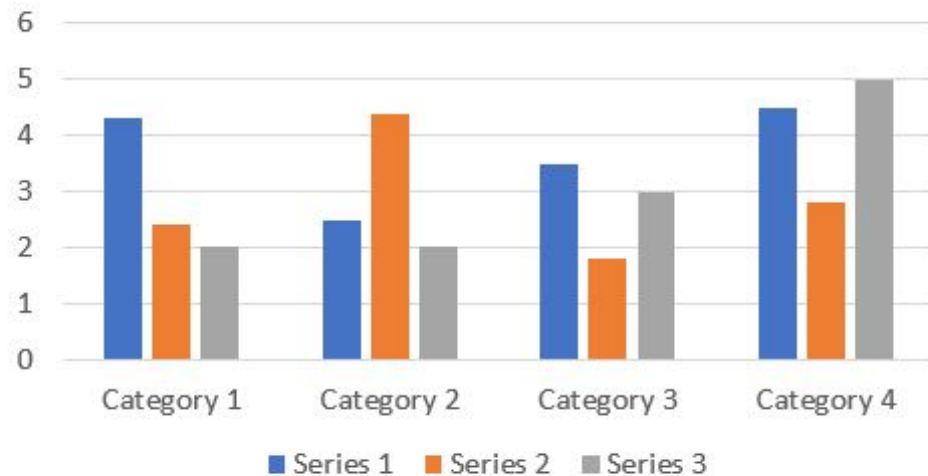
All
User1
user2
...

Total expenses:

10,256

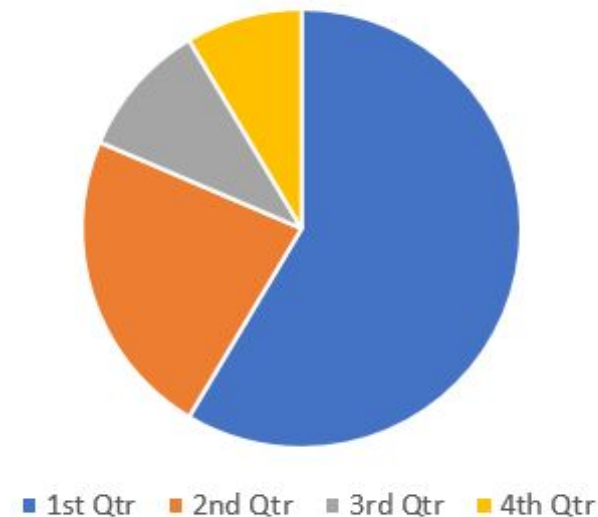
הוצאות לפי משתמשים

Chart Title



הוצאות לפי קטגוריות - כללי

Sales



logo

* Group & user are DDL

logout

Group: Group name

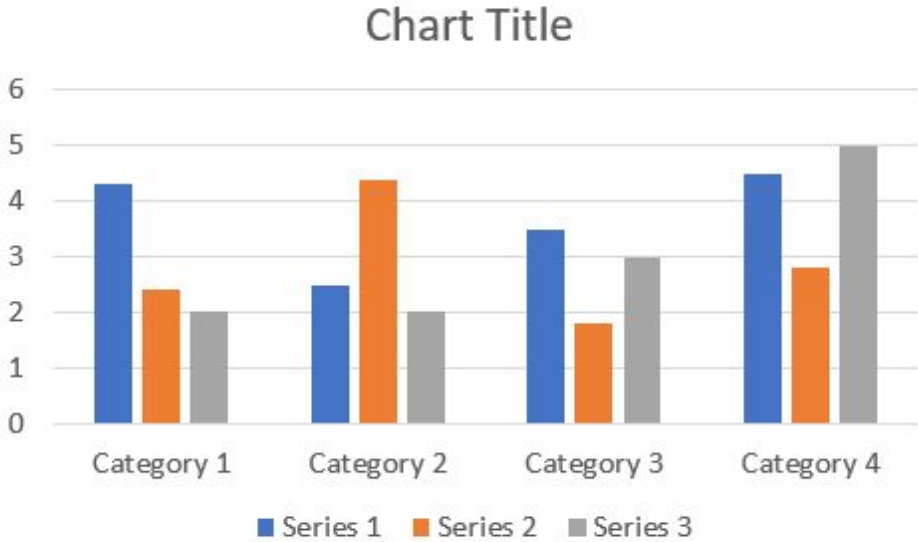
user: Username

AllUser1user2...

Date filters: 7 days30 days6 monthall

Total expenses:
2,564

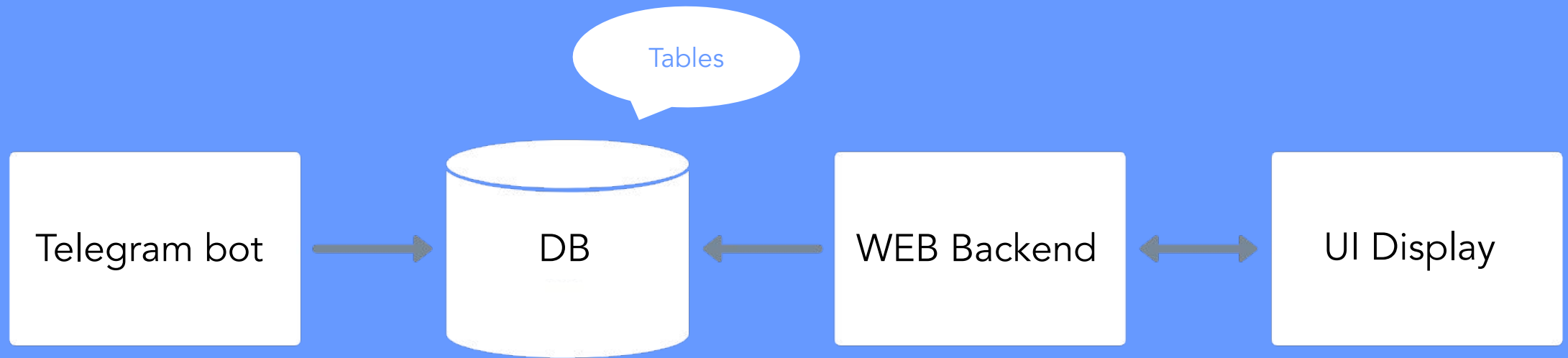
הוצאות לפי משתמשים



הוצאות לפי קטגוריות - כללי



ARCHITECTURE DESIGN



DATA BASE STRUCTURE



Users

- pk_id (pk)
- user_name
- email
- date_created
- is_admin

Groups

- pk_id (pk)
- group_name
- date_created

UserGroups

- pk_id (pk)
- fk_user_id(fk)
- fk_group_id(fk)
- date_created
- is_admin

ProductCategories

- pk_id (pk)
- product_name
- category_name

UserProducts

- pk_id (pk)
- pk_id(pk),
fk_group_id(fk)
- fk_user_id(fk)
- fk_product_id(fk)
- category_name
- amount
- date_created

TIMELINE



April 19th

Feasibility study
POC presentation

May 10th

Complete DB manipulation
Add graphs to UI

May 17th

Finish must have features
ALFA presentation

June 6th

Stop development on nice to have features
Features and start integration

June 12th

SUBMISSION at Microsoft





MARKET RESEARCH

Bank Apps

Keep track of your expenses only

Other Apps

"Splitwise", "Expense Manager", "Wallet",
"Monefy", "Fast budget"

Our App - MoneyMate

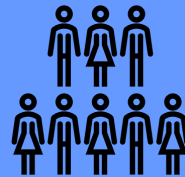
Our project is inside the messaging app, no need for an external app, you just add the expenses to the chat group, and it's recorded.

User friendly – it's perfect for any kind of user

EFFICIENCY



The app is
effective with
a small user
base



If many users
use the bot
simultaneously
it may slow
down



Scaling the
system
architecture
for better
performance
is possible

AGENDA



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MoneyMate QUESTIONS?

