

① Explain your project .

→ Individual Payments

- Sync Contacts from Contacts List
- Add / Remove transactions

→ Group Payments

- Add / Remove Groups
- Add / Remove Members
- Add / Remove Transactions

- Minimize Cash flow Algorithm ★
 { Priority queue - $O(N \log N)$

→ Firebase

- Firebase Authentication
- Cloud firestore (NoSQL database)
 - stores contacts
 - stores transactions

② Unique feature?

→ Integration of Individual Payments from Khatabook & Group Payments from Splitwise

③ Motivation?

→ Travel trips with friends & families
(Real-world pain point)

→ Use-case of Data Structures & Algo knowledge

④ Difficulties faced?

→ Firebase authentication integration
{ Read documentation }

→ How to store contacts in cloud.
{ for persistent data }

⑤ New features that you would add?

- Payment Integration & Reminder
- Syncing groups data among members
- Adding support for Web using Google People API for contacts

⑥ Why have you used Flutter?

- Cross-platform applications which can run for ios/android/web/desktop
- Fast & Easy Development → Hot Reload / Hot restart
{ Learning phase }
- Beautiful UI & easy plugin integrations
- Flutter backed by Google , great community

⑦ Why have you used Firestore?

→ Firestore : Document-based NoSQL database

→ NoSQL can store data in unstructured format.

→ Storing contacts (Profile Pic, Phone no, etc) need unstructured format.

→ Flutter & Firestore are both developed by Google. So fast integration.

→ Since Firestore can store real time data, it can help in syncing among users.

⑧ Is your application - Scalable?

→ Being cross-platform, the support can be easily extended to ios/web/desktop users.

→ Firestore, being NoSQL, is highly scalable as it requires data in JSON format, & stores them as collections/documents

→ Free quota

- Storage : 1 GB

- read/write : 50k/20k per day

- Users : 100 accounts / per IP address / per hour

: Unlimited registered users