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Assignment for Software Development Engineer role

Q3. Build a expense management application wherein users can add an expense and assign shares to their friends eg.
3 users, Ram, Shyam and Gyan went for a movie and ram paid 300 for tickets. He should be able to add this expense and assign a share of 100 to Shyam and gyan each.

Key functionalities to be implemented:

1. Add an expense and add other friend's share.
2. Get details of the amount owed by each friend.
3. Get details of the amount the user owes to friends

Assumptions:
- User management is taken care of and need not be implemented, refer users by user_id
- Share to be specified in exact amount eg Rs100, Rs200 and not in percentages or ratios. Though this can be later brought in as an improvement.

Aspects evaluated: Data modeling, Application development
Languages Allowed: Python, Java, Scala

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