Trip Mate Features

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TripMate – Peer-to-Peer Travel Accessories Rental Platform
Overview:

TripMate is a rental-based platform that allows users to lend and rent travel accessories, making trips more affordable and sustainable. Instead of purchasing expensive travel gear, users can rent items from others nearby, ensuring cost savings and reduced waste.

Purpose:
TripMate aims to:

- Reduce unnecessary purchases by offering a rental alternative.
- Make travel affordable by providing access to essential gear at lower costs.
- Encourage sustainability by promoting the reuse of travel accessories.
- Foster a community-driven marketplace where travelers can share resources.

Schema Design for TripMate

Users Table

Stores user information, including profile details and verification status.

```
users = {
  user_id: "unique integer id",
  name: "<>",
  email: "<>",
  phone: "<>",
  password_hash: "<>",
  profile_picture: "<URL>",
  location: "<city, country>",
  verified: "<boolean>",
  created_at: "<timestamp>"
  role: <lender or renter>
}
```

Items Table

Stores details of the travel accessories available for rent.

```
items = {
  item_id: "unique integer id",
  owner_id: "user_id",
  title: "<>",
  description: "<>",
  category: "<Tent / Backpack / Camera / etc.>",
  rental_price_per_day: "<decimal>",
  condition: "<New / Good / Used>",
  location: "<city, country>",
  available_from: "<date>",
  available_until: "<date>",
  created_at: "<timestamp>"
}
```

Bookings Table

Tracks rental requests made by users.

```
bookings = {
  booking_id: "unique integer id",
  renter_id: "user_id",
  item_id: "item_id",
  owner_id: "user_id",
  start_date: "<date>",
  end_date: "<date>",
  total_price: "<decimal>",
  status: "<Pending / Accepted / Rejected / Completed>",
  created_at: "<timestamp>"
}
```

Payments Table

Logs payment transactions for rentals.

```
payments = {
  payment_id: "unique integer id",
  booking_id: "booking_id",
  renter_id: "user_id",
  owner_id: "user_id",
  amount: "<decimal>",
  payment_status: "<Pending / Completed / Failed>",
  transaction_id: "<>",
  payment_method: "<Card / UPI / PayPal>",
  created_at: "<timestamp>"
}
```

Reviews Table

Stores feedback from renters about items and owners.

```
reviews = {
  review_id: "unique integer id",
  booking_id: "booking_id",
  reviewer_id: "user_id",
  reviewed_user_id: "user_id",
  rating: "<integer (1-5)>",
  comment: "<>",
  created_at: "<timestamp>"
}
```

Messages Table

Stores chat messages between users for rental discussions.

```
messages = {
  message_id: "unique integer id",
  sender_id: "user_id",
  receiver_id: "user_id",
  message_text: "<>",
  sent_at: "<timestamp>",
  read_status: "<boolean>"
}
```

Security Deposits Table

Handles security deposits for expensive items.

```
security_deposits = {
  deposit_id: "unique integer id",
  booking_id: "booking_id",
  renter_id: "user_id",
  owner_id: "user_id",
  deposit_amount: "<decimal>",
  deposit_status: "<Held / Refunded / Forfeited>",
  created_at: "<timestamp>"
}
```

Item Reports Table

Tracks complaints or reports about damaged or lost items.

```
item_reports = {
  report_id: "unique integer id",
  booking_id: "booking_id",
  reporter_id: "user_id",
  reported_user_id: "user_id",
  issue_type: "<Damaged / Lost / Other>",
  description: "<>",
  status: "<Open / Resolved>",
  created_at: "<timestamp>"
}
```