

# Activity1\_2021121006

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## Class Descriptions

### ***User***

Represents a single user of any type. Keeps track of *trips* taken by them and has an associated *wallet*.

### ***Trip***

Represents a booking of a smart *vehicle*, tracks the start/end *locations* and time. Responsible for charging overdue fines.

### ***Location***

Represents a location from where *users* can start and end *trips*. An aggregation of *vehicles*

### ***Vehicle***

Represents one smart vehicle. Tracks which *trip* it's currently on. Responsible for generating QR codes.

### ***Wallet***

Each *user* owns a wallet that tracks the funds added to it. Is composed of many *payments*.

### ***Payment***

A single transfer of funds. This is an abstract class that can be either a wallet recharge or a wallet payment.

