Service contract for Taxi Tap

**UserServiceContract**

1. createUser
   1. Request:

**{**

**name: string,**

**phoneNumber: string,**

**password: string**

**}**

* 1. Response

**{**

**userID: string,**

**createdAt: timestamp**

**}**

* 1. Effect
     1. Saves a new user to the database and returns the generated user ID and creation timestamp.

1. LoginUser
   1. Request:

**{**

**phoneNumber: string,**

**password: string**

**}**

* 1. Response

**{**

**token: string,**

**userId: string**

**}**

* 1. Effect
     1. Authenticates the user and provides a session token.

**RideBookingServiceContract**

1. ViewAvailableTaxis
   1. Request

**{**

**"userLocation": { "latitude": float, "longitude": float }**

**}**

* 1. Response

**[{**

**"taxiId": "string",**

**"driverName": "string",**

**"availableSeats": "int",**

**"route": "string",**

**"location": { "latitude": float, "longitude": float }**

**}]**

* 1. Effect
     1. Returns a list of nearby taxis with route, price and seat information.

1. bookSeat
   1. Request

**{**

**"userId": "string",**

**"taxiId": "string",**

**"pickupLocation": { "latitude": float, "longitude": float },**

**"destination": "string"**

**}**

* 1. Response

**{**

**"bookingId": "string",**

**"status": "confirmed",**

**"estimatedArrivalTime": "timestamp"**

**“price”: double**

**}**

* 1. Effect
     1. Reserves a seat in the taxi and returns confirmation.

1. trackTaxi
   1. Request

**{**

**"bookingId": "string"**

**}**

* 1. Response

**{**

**"taxiLocation": { "latitude": float, "longitude": float },**

**"estimatedArrivalTime": "timestamp"**

**}**

* 1. Displays live taxi location and ETA.