

Project information:

Team:

Viktoriia Abakumova (C28591)

Maksym Avramenko (C28586)

Serhii Murashko (C28574)

Project repository: <https://github.com/abakumova/parking-esi>

URI description:

| User Management | | |
|---------------------------|-----------|-------------------------------------|
| URI | HTTP verb | Description |
| /users | GET | Get all users |
| /users/:id | GET | Get user by id |
| /users | POST | Create new user |
| /users/:id | DELETE | Delete user |
| /users/:id | PUT | Update user |
| Payment | | |
| --- | --- | Handle payment |
| Parking Management | | |
| /parking-slots/:id | GET | Get parking slot by id |
| /parking-slots | POST | Create parking slot |
| /parking-slots | PUT | Update parking slot |
| /parking-slots | DELETE | Delete parking slot |
| /parking-restrictions/:id | GET | Get parking restriction by id |
| /parking-restrictions | POST | Create parking restriction |
| /parking-restrictions/:id | PUT | Update parking restriction |
| /parking-restrictions/:id | DELETE | Delete parking restriction |
| Parking Availability | | |
| /available-slots | GET | Get all available slots by location |
| Location | | |
| /location | GET | Get full address by partial address |
| Booking | | |
| /bookings/:id | GET | Get booking by id |
| /bookings | POST | Create new booking |
| /bookings/:id | PUT | Update booking |
| /bookings/:id | DELETE | Delete booking |
| /bookings/:userId | GET | Get all bookings by the user |
| Analytics | | |
| /analytics/:parkingSlotId | GET | Get analytics Dto of parking slot |
| Reporting | | |

| | | |
|--|-----|--|
| /analytics?parkingSlotIds=id1,id2,idn... | GET | Get aggregated analytics of specified parking slots' ids |
|--|-----|--|

Event description:

| Topic Name | Producer | Consumer(s) | Object Exchanged |
|-----------------------------------|----------------------|----------------------|---|
| user-request-topic | Payment Service | User Management | UserRequestMessage |
| user-response-topic | User Management | Payment Service | UserResponse |
| payment-topic | Payment Service | Booking | PaymentResultMessage |
| balance-topic | Payment Service | User Management | UserBalanceMessage |
| location-topic | Location Service | Parking Availability | LocationMessage |
| booking-created-topic | Booking Service | Analytics Service | BookingDto |
| booking-restriction-request-topic | Booking Service | Parking Management | BookingParkingRestrictionRequestMessage |
| booking-price-response | Parking Availability | Booking | BookingPriceResponseMessage |
| booking-price-request-topic | Booking Service | Parking Availability | BookingPriceRequestMessage |
| booking-update-status-topic | Booking Service | Parking Availability | BookingUpdateStatusMessage |
| slot-created-topic | Parking Management | Parking Availability | SlotCreatedMessage |
| slot-deleted-topic | Parking Management | Parking Availability | SlotDeletedMessage |
| slot-updated-topic | Parking Management | Parking Availability | SlotUpdatedMessage |
| analytics-response | Analytics | Reporting | String |
| analytics-request | Reporting | Analytics | AnalyticsRequest |