

## API Documentation

The roomcaptain API can be used to retrieve data concerning the rooms, availability and action bookings. The API can be accessed by a URL, where the search criteria is sent via a form upload and the result is a JSON data structure.

There are 5 type of action that the api can handle:

1. Getting list of rooms – this action retrieves the list of rooms available for a location
2. Availability – this action retrieves the rooms and their availability for a certain period
3. Sitetext – this action retrieves the list of keys and their associated value for a specified language
4. Services – this action retrieves the extra services guest can book
5. Book – this action books a reservation
6. Room calendar – this action retrieves availability of a room for a certain period of time
7. Room highlights – users the make some rooms highlighted that can be shown on a website as highlighted items
8. Room highlights with special offers – room highlights and special offers together
9. Confirm booking – get a booking to be confirmed by the guest
10. Confirm booking submit – saves the booking confirmation

The api can be access via the following URLs:

- QA <http://dev.recepcio.roomcaptain.com/api.php>
- Prod <http://recepcio.roomcaptain.com/api.php>

## Errors

When the server cannot handle a request an error will be generated and returned to the caller. If any parameter is missing or if the action parameter is not one of the valid values, a simple text response (in English) will return.

For other errors the JSON response will contain one element with name 'error' and one of the below values:

| Error Codes                              | Explanation   |
|--|---|
| BOOKING_DATE_MUST_BE_IN_THE_FUTURE       | The booking date must be in the future                  |
| CHECKOUT_DATE_MUST_BE_AFTER_CHECKIN_DATE | The end date has to be after the start date             |
| FOR_SELECTED_DATE_MIN_STAY X             | The minimum number of days for the period is X days     |
| FOR_SELECTED_DATE_MAX_STAY X             | The maximum number of days for the period is X days     |
| DB_ERROR                                 | DB Error occurred. It worth to retry the request again. |

## Actions

### 1. Getting list of rooms

[http://dev.recepcio.roomcaptain.com/api.php?lang=eng&location=teszt\\_hostel&action=rooms](http://dev.recepcio.roomcaptain.com/api.php?lang=eng&location=teszt_hostel&action=rooms)

#### Incoming Parameters

- lang The 3 character language identifier (currently supported are: deu, eng, fra, ita, esp)
- action 'rooms' (without the quotes)
- location For dev use 'teszt\_hostel'. For prod use the name that is provided to you
- currency The currency the prices should be in

#### Returned data

The returned data is a JSON structure:

```
{
  Room type id: {
    id: the id this is used to address the room when sending in the booking,
    price_per_bed: this is the preset price of the bed if the room is a DORM,
      (for certain dates this value may change, you will see in the availability request)
    price_per_room: this is the preset price of the room if the room is a PRIVATE or APARTMENT room
      (for certain dates this value may change, you will see in the availability request)
    surcharge_per_bed: for apartments the price_per_room is for 2 people. For any additional guest this surcharge is counted,
    type: the type of the room, can be DORM, PRIVATE, APARTMENT,
    num_of_beds: the number of available beds in the room,
    name: the name of the room,
    description: description of the room,
    short_description: short description of the room,
    size: description of the room relating to its size,
    location: description of the room relating to its location,
    bathroom: description of the room relating to its bathroom,
    _order: ordering of each room on the admin interface. UI may choose to sort the rooms in different order,
    num_of_beds_avail: This value will always be 0 on this query do not use it here,
    images: [
      {
        width: width of the image in pixels,
        height: height of the image in pixels,
        default: 1 if this is the default image for this room, 0 if it is not,
        original_img_url: URL of the original image. Use this directly to show the image on a page,
        medium_img_url: URL of the medium image. Use this directly to show the image on a page,
        thumb_img_url: URL of the thumb image. Use this directly to show the image on a page
      },
      ...
    ]
  }
}
```

### 2. Getting the availability

[http://dev.recepcio.roomcaptain.com/api.php?lang=eng&location=teszt\\_hostel&action=availability&from=2017-01-05&to=2017-01-07&filter\\_room\\_types=42,35](http://dev.recepcio.roomcaptain.com/api.php?lang=eng&location=teszt_hostel&action=availability&from=2017-01-05&to=2017-01-07&filter_room_types=42,35)

#### Incoming Parameters

- lang The 3 character language identifier (currently supported are: deu, eng, fra, ita, esp)
- action 'availability' (without the quotes)
- location For dev use 'teszt\_hostel'. For prod use the name that is provided to you
- from date of the arrival (format: YYYY-MM-DD)
- to date of the departure (format: YYYY-MM-DD)
- filter\_room\_types (optional parameter) coma separated list of room type ids that should return only. If this parameter is omitted then all room types will return
- currency The currency the prices should be in

## Returned data

The returned data is a JSON structure:

```
{
  "special_offers": {
    <special offer id>: {
      id: id of the special offer,
      name: name of the special offer (not for display to users),
      start_date: start date of the special offer. Use rather the dates array below where multiple ranges can be set,
      end_date: end date of the special offer. Use rather the dates array below where multiple ranges can be set,
      discount_pct: discount percentage (if this value is 10 it means that the price will be 10% less than normal if this applies,
      nights": the minimum number of nights that this special offer applies,
      valid_num_of_days_before_arrival": arrival date must be at least as many days in the future as this number
      visible": 1 is visible 0 is not visible,
      room_type_ids: comma separated list of room type ids where this special offer applies,
      early_bird_day_count": arrival date must be at most as many days in the future as this number,
      title: title of the special offer,
      text": description of the special offer,
      room_name": the name of the room or rooms that this special offer applies to (like all private rooms ,etc),
      dates": [
        {
          "start_date": start of the validity of the special offer (format: YYYY-MM-DD),
          "end_date": end of the validity of the special offer (format: YYYY-MM-DD)
        },
        ...
      ]
    },
    ...
  },
  "rooms": [
    {
      id: the id this is used to address the room when sending in the booking,
      price_per_bed: this is the preset price of the bed if the room is a DORM,
        (for certain dates this value may change, you will see in the availability request)
      price_per_room: this is the preset price of the room if the room is a PRIVATE or APARTMENT room
        (for certain dates this value may change, you will see in the availability request)
      surcharge_per_bed: for apartments the price_per_room is for 2 people. For any additional guest this surcharge is counted,
      type": the type of the room, can be DORM, PRIVATE, APARTMENT,
      num_of_beds": the number of available beds in the room,
      name": the name of the room,
      description: description of the room,
      short_description: short description of the room,
      size: description of the room relating to its size,
      location: description of the room relating to its location,
      bathroom: description of the room relating to its bathroom,
      _order: ordering of each room on the admin interface. UI may choose to sort the rooms in different order,
      num_of_beds_avail: Applicable for DORMs, this is the number of beds available for the time period
      num_of_rooms_avail: Applicable for PRIVATE and APARTMENTS, this is the number of rooms available for the time period,
      price: This is the price of bed (for DORM) or price of room (for PRIVATE) per day for the period.
        This price is the average price for the period so if you book for 2 days, with 10 and 12 the price for the 2 days
        this value will be 11.
        This price also includes any discounts that are applicable if a special offer applies.
        So you do not need to calculate anything related to the price, just show this field as amount/day/(bed or room)
      price_without_discount: if special offer applies, this price contains the price without the special offer,
      price_2: For apartment the price if it is booked for 2 people,
      price_3: For apartment the price if it is booked for 3 people,
      price_4: For apartment the price if it is booked for 4 people,
      price_5: For apartment the price if it is booked for 5 people,
      price_6: For apartment the price if it is booked for 6 people,
      special_offer: the special offer that applies to this room for the period of the booking,
      special_offer_for_one_more_day: the special offer that would apply to this room for the period of the booking if the guest
        stayed an extra day,
      images: [
        {
          id: id of the image,
          filename: the file name,
          room_type_id: the id of the room type that this image is linked to,
          width: with of the image in pixels,
          height: height of the image in pixels,
          default: 1 if this is the default image for this room, 0 if it is not,
          _order: the order of the image set on the admin inter,
          thumb: the name of the thumb image file,
          medium: the name of the medium image file,
          original_img_url: URL of the original image. Use this directly to show the image on a page,
          medium_img_url: URL of the medium image. Use this directly to show the image on a page,
          thumb_img_url: URL of the thumb image. Use this directly to show the image on a page
        },
        ...
      ]
    },
    ...
  ]
}
```

### 3. *Getting the texts for the website*

#### *Incoming Parameters*

- lang            The 3 character language identifier (currently supported are: deu, eng, fra, ita, esp)
- action        'dictionary' (without the quotes)
- location      For dev use 'teszt\_hostel'. For prod use the name that is provided to you

#### *Returned data*

The returned data is a JSON structure:

```
{
  Key1: value1,
  Key2: value2,
  ...
}
```

The key value pairs can be set in [http://dev.recepcio.roomcaptain.com/view\\_sitetexts.php](http://dev.recepcio.roomcaptain.com/view_sitetexts.php) (for the prod version remove the dev from the beginning of the URL)

### 4. *Getting a list of services that can be booked along with the reservation*

#### *Incoming Parameters*

- lang            The 3 character language identifier (currently supported are: deu, eng, fra, ita, esp)
- action        'services' (without the quotes)
- location      For dev use 'teszt\_hostel'. For prod use the name that is provided to you
- currency      The currency the prices should be in

#### *Returned data*

The returned data is a JSON structure:

```
[
  {
    id: The ID of the service. This will need to be specified when sending in the booking if the service is selected,
    price: The price of the service,
    currency: The currency the price is in,
    free_service: 0 if it's a free service, 1 if it's a paying service,
    title: The title of the service,
    description: The description of the service,
    unit_name: The unit, for example the taxi from the airport is "4 passenger", so when you display it it will be price/unit
  },
  ...
]
```

### 5. *Book a reservation*

#### *Incoming Parameters*

- lang            The 3 character language identifier (currently supported are: deu, eng, fra, ita, esp)
- action        'book' (without the quotes)
- location      For dev use 'teszt\_hostel'. For prod use the name that is provided to you
- firstname     The first name of the guest
- lastname     The last name of the guest
- email        The email of the guest
- phone        The phone of the guest

- nationality      The nationality of the guest (use the 2 character code)
- street            The street address of the guest
- city              The city of the guest
- zip                The zip of the guest
- country          The country of the guest
- comment         The comment of the reservation
- currency         The currency of the reservation
- booking\_data    The booking data, this is a json structure containing the rooms/beds to book. See below.
- from\_date        The arrival date (format: YYYY-MM-DD)
- to\_date          The departure date (format: YYYY-MM-DD)
- services         The selected services for the reservation. It is a JSON data structure. See below.

The **booking\_data** has the following json structure:

```
[
  {
    roomTypeIds: array of room type ids, this will normally be an array of 1 element,
    numOfPerson: array of number where each, element is the number of person into 1 room
  },
  ...
]
```

#### Examples:

2 private room booked, 1 double bed room (room\_type\_id: 42) and 1 four bed room (room\_type\_id 43):

```
[
  { roomTypeIds: [42], numOfPerson:[2]},
  { roomTypeIds: [43], numOfPerson:[4]}
]
```

2 private room booked, both are double bed room (room\_type\_id: 42)

```
[
  { roomTypeIds: [42], numOfPerson:[2,2]}
]
or
[
  { roomTypeIds: [42], numOfPerson:[4]}
]
or
[
  { roomTypeIds: [42], numOfPerson:[2]},
  { roomTypeIds: [42], numOfPerson:[2]}
]
```

1 private double room booked (room\_type\_id: 42) and 4 bed from a dorm (room\_type\_id: 51)

```
[
  { roomTypeIds: [42], numOfPerson:[2]},
  { roomTypeIds: [51], numOfPerson:[4]}
]
```

2 apartment is booked (room\_type\_id: 62), 1 with 2 guest the other one with 3 guests

```
[
  { roomTypeIds: [61], numOfPerson:[2,3]},
]
or
[
  { roomTypeIds: [61], numOfPerson:[2]},
  { roomTypeIds: [61], numOfPerson:[3]},
]
```

1 private room booked, either a double room (room\_type\_id: 42) or a triple room (room\_type\_id: 43)

```
[
  { roomTypeIds: [42,43], numOfPerson:[2]}
]
```

The **services** has the following json structure:

```
[
  {
    serviceId: the ID of the service. This is acquired from the loadServices action,
    occasion: the number of times the services wants to be used. For example for a bike rental the number of bikes to rent,
    comment: any additional comment with regards to the reservation of this service (for example the day when to use it)
  },
  ...
]
```

### *Returned data*

There is no returned data for this action

## *6. Room Calendar*

This call returns the availability of one room type for a period specified by the from-to parameters.

### *Incoming Parameters*

- lang                      The 3 character language identifier (currently supported are: deu, eng, fra, ita, esp)
- action                    'room\_avalability' (without the quotes)
- location                  For dev use 'teszt\_hostel'. For prod use the name that is provided to you
- room\_type\_id            The id of the room type that we want to get the availability
- from                      Start date from where we want the availability
- to                        End date until we want the availability

### *Returned data*

The returned data is a JSON structure:

```
[
  {
    date: the date for which the availability is given (format: YYYY-MM-DD),
    numberOfAvailableBeds: The number of available beds. Should be used for DORM types only,
    numberOfAvailableRooms: The number of available rooms. Should be used for PRIVATE or APARTMENT rooms only.
                           For DORM this will be 0 always
  },
  ...
]
```

## 7. Room Highlights

This call retrieves the room highlights, a selected number of rooms that can be shown as a showcase.

### Incoming Parameters

- lang The 3 character language identifier (currently supported are: deu, eng, fra, ita, esp)
- action 'room\_highlights' (without the quotes)
- location For dev use 'teszt\_hostel'. For prod use the name that is provided to you
- currency The currency the room prices are returned in

### Returned data

The returned data is a JSON structure:

```
[
  {
    id: the id this is used to address the room when sending in the booking,
    price_per_bed: this is the preset price of the bed if the room is a DORM,
                    (for certain dates this value may change, you will see in the availability request)
    price_per_room: this is the preset price of the room if the room is a PRIVATE or APARTMENT room
                    (for certain dates this value may change, you will see in the availability request)
    surcharge_per_bed: for apartments the price_per_room is for 2 people. For any additional guest this surcharge is counted,
    type: the type of the room, can be DORM, PRIVATE, APARTMENT,
    num_of_beds: the number of available beds in the room,
    name: the name of the room,
    description: description of the room,
    short_description: short description of the room,
    size: description of the room relating to its size,
    location: description of the room relating to its location,
    bathroom: description of the room relating to its bathroom,
    _order: ordering of each room on the admin interface. UI may choose to sort the rooms in different order,
    num_of_beds_avail: This value will always be 0 on this query do not use it here,
    images: [
      {
        width: width of the image in pixels,
        height: height of the image in pixels,
        default: 1 if this is the default image for this room, 0 if it is not,
        original_img_url: URL of the original image. Use this directly to show the image on a page,
        medium_img_url: URL of the medium image. Use this directly to show the image on a page,
        thumb_img_url: URL of the thumb image. Use this directly to show the image on a page
      },
      ...
    ]
  },
  ...
]
```

## 8. Room Highlights with Special Offers

This call retrieves the room highlights, a selected number of rooms that can be shows as a showcase and the special offers that are visible and valid from now until one year from now.

### Incoming Parameters

- lang                    The 3 character language identifier (currently supported are: deu, eng, fra, ita, esp)
- action                'room\_highlights\_with\_special\_offers' (without the quotes)
- location              For dev use 'teszt\_hostel'. For prod use the name that is provided to you
- currency              The currency the room prices are returned in

### Returned data

The returned data is a JSON structure:

```
{
  "room_highlights" => [
    {
      id: the id this is used to address the room when sending in the booking,
      price_per_bed: this is the preset price of the bed if the room is a DORM,
                     (for certain dates this value may change, you will see in the availability request)
      price_per_room: this is the preset price of the room if the room is a PRIVATE or APARTMENT room
                     (for certain dates this value may change, you will see in the availability request)
      surcharge_per_bed: for apartments the price_per_room is for 2 people. For any additional guest this surcharge is counted,
      type": the type of the room, can be DORM, PRIVATE, APARTMENT,
      num_of_beds": the number of available beds in the room,
      name": the name of the room,
      description: description of the room,
      short_description: short description of the room,
      size: description of the room relating to its size,
      location: description of the room relating to its location,
      bathroom: description of the room relating to its bathroom,
      _order: ordering of each room on the admin interface. UI may choose to sort the rooms in different order,
      num_of_beds_avail: This value will always be 0 on this query do not use it here,
      images: [
        {
          width: width of the image in pixels,
          height: height of the image in pixels,
          default: 1 if this is the default image for this room, 0 if it is not,
          original_img_url: URL of the original image. Use this directly to show the image on a page,
          medium_img_url: URL of the medium image. Use this directly to show the image on a page,
          thumb_img_url: URL of the thumb image. Use this directly to show the image on a page
        },
        ...
      ]
    },
    ...
  ],
  "special_offers": {
    <special offer id>: {
      id: id of the special offer,
      name: name of the special offer (not for display to users),
      start_date: start date of the special offer. Use rather the dates array below where multiple ranges can be set,
      end_date: end date of the special offer. Use rather the dates array below where multiple ranges can be set,
      discount_pct: discount percentage (if this value is 10 it means that the price will be 10% less than normal if this
applies,
      nights": the minimum number of nights that this special offer applies,
      valid_num_of_days_before_arrival": arrival date must be at least as many days in the future as this number
      visible": 1 is visible 0 is not visible,
      room_type_ids: comma separated list of room type ids where this special offer applies,
      early_bird_day_count": arrival date must be at most as many days in the future as this number,
      title: title of the special offer,
      text": description of the special offer,
      room_name": the name of the room or rooms that this special offer applies to (like all private rooms ,etc),
      dates": [
        {
          "start_date": start of the validity of the special offer (format: YYYY-MM-DD),
          "end_date": end of the validity of the special offer (format: YYYY-MM-DD)
        },
        ...
      ]
    },
    ...
  ],
  ...
},
},
}
```



## 9. Confirm booking

This call allows users to confirm their booking based on the email they get. The email contains a link to the website that will call this API to retrieve the booking. The link will contain a parameter called `confirm_code` that will need to be passed to this API call to retrieve the booking.

### Incoming Parameters

- `lang` The 3 character language identifier (currently supported are: deu, eng, fra, ita, esp)
- `action` 'confirm\_booking' (without the quotes)
- `location` For dev use 'teszt\_hostel'. For prod use the name that is provided to you
- `confirm_code` The confirm code that the guest receives in the email

### Returned data

If based on the `confirm_code` the booking cannot be found, the call returns an empty array. If the booking is found based on the `confirm_code`, the returned data is a JSON structure:

```
{
  name: the name on the booking,
  email: the email on the booking,
  arrive_date: the arrival date (format: YYYY-MM-DD),
  departure_date: the departure date (format: YYYY-MM-DD),
}
```

## 10. Confirm booking submit

Submits a room confirmation. Websites would first call the previous call to show the user the booking to confirm. Then the users would fill in 2 fields: arrive time and comment and then send the confirmation that would invoke this API call.

### Incoming Parameters

- `lang` The 3 character language identifier (currently supported are: deu, eng, fra, ita, esp)
- `action` 'confirm\_booking\_submit' (without the quotes)
- `location` For dev use 'teszt\_hostel'. For prod use the name that is provided to you
- `confirm_code` The confirm code that the guest receives in the email
- `arrive_time` The time of arrival (free text)
- `comment` Any extra info provided by the guest

### Returned data

If based on the `confirm_code` the booking cannot be found, the call returns an empty array. If the booking is found and the booking confirmation is successful, the returned data is a JSON structure:

```
{
  name: the name on the booking,
  email: the email on the booking,
  arrive_date: the arrival date (format: YYYY-MM-DD),
  departure_date: the departure date (format: YYYY-MM-DD),
}
```

