MyBnB: User Manual

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Contents

1 Overview **3**
- 1.1 What is MyBnB? . . . 3
- 1.2 Brief Overview of Features . . . 3
  - 1.2.1 User operations . . . 3
  - 1.2.2 Search operations . . . 3
  - 1.2.3 Report operations . . . 3

2 Getting Started **4**
- 2.1 Setup . . . 4
  - 2.1.1 Enter database . . . 4
  - 2.1.2 Enter user [root] and password . . . 4
- 2.2 Main Menu . . . 4

3 Log In **5**
- 3.1 Actions that require logging in . . . 5

4 Create a new account **5**

5 Browse and search listings **6**
- 5.1 Filters . . . 6
- 5.2 Search exact destination . . . 6
- 5.3 Search nearby postal codes . . . 6
- 5.4 Search worldwide . . . 6

6 Book a listing **7**

7 Cancel a booking **7**

8 Rate and comment **7**
- 8.1 Renters . . . 7
- 8.2 Hosts . . . 7

9 Reports **8**

9.1 Total number of bookings for a specified date range . . . 8
9.2 Total number of listings in a specified area . . . 8
9.3 Rank hosts by number of listings in a specified area . . . 8
9.4 Find possible commerical hosts in a specified area . . . 8
9.5 Rank renters by number of bookings within a specified time range . . . 8
9.6 Rank hosts and renters by number of booking cancellations . . . 8
9.7 Find the most popular noun phrase per listing . . . 8

10 Account settings **9**
10.1 View profile . . . 9
10.2 Change profile details . . . 9
10.3 Add payment info . . . 9
10.4 View my renting history . . . 9
10.5 Delete my account . . . 9

11 Host Toolkit **10**
11.1 Add a new listing . . . 10
11.2 View my listings . . . 10
11.3 Change listing availability . . . 10
11.4 Change listing price . . . 11
11.5 Remove listing . . . 11

1 Overview

1.1 What is MyBnB?

MyBnB is a rental and booking system designed to make your hosting and renting experience a breeze!

1.2 Brief Overview of Features

1.2.1 User operations

Users can **create and manage their user profile**. Once a profile has been created, the user can log in to access features relating to their account. You may delete your account at any time.

As a user, you may **book available listings**, **create a new listing**, **rate and comment** on other user's or listings and so much more. See sections 8, 9 and 10.

Guests are still able to use MyBnB but are limited to features that do not require and account. Therefore, it is highly recommended to log in or create an account and start exploring all of MyBnB!

1.2.2 Search operations

You can easily browse and discover properties that match your preferences and requirements through **location-based searching** and **advanced search filters** for price, availability and amenities.

See section 6.

1.2.3 Report operations

You can gain valuable insights into the data and trends on MyBnB by running a report.

See section 10 for supported reports.

2 Getting Started

2.1 Setup

2.1.1 Enter database

The input should be the name of the mysql database which contains the schemas for MyBnB.

2.1.2 Enter user [root] and password

The input should be the name of the user and password defined for the mysql database. Hitting enter without typing in an input for the user will use the default option "root".

2.2 Main Menu

After successfully connecting to the database, the main menu will display with a number of options. Typing in the option number will execute the action associated with that option.

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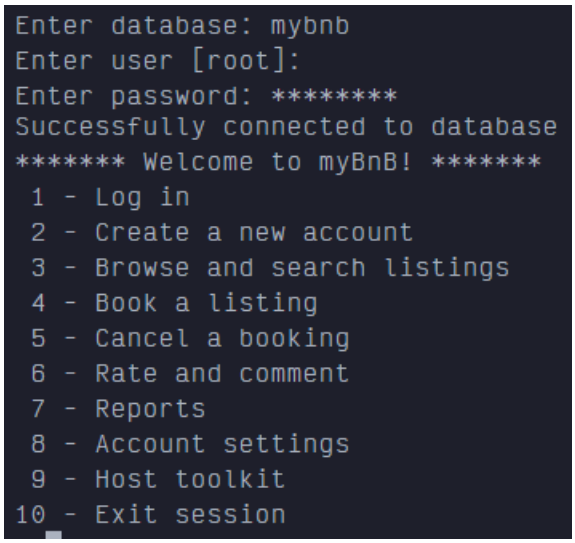

Figure 1. Example setup and main menu.

3 Log In

To login to an existing account, enter the SIN associated with the account.

3.1 Actions that require logging in

Once you have logged in, you will gain access to the following:

1. Book a listing
2. Cancel a booking
3. Rate and comment
4. View my profile
5. Change profile details
6. Add payment info
7. View my renting history
8. Delete my account
9. Add a new listing
10. View my listings
11. Change listing availability
12. Change listing price
13. Remove listing

4 Create a new account

Creating an account will automatically log you into the new account. If you were previously logged in, you will be logged out and switch to the new account.

Required fields for creating an account:

1. **SIN** - The user's SIN must be exactly 9 characters and contain only letters and numbers. If there is already an existing user account with the same SIN, the account must be deleted first. The user's SIN will be used as the user's unique identifier for all booking and listing operations.
2. **Full name**
3. **Occupation**
4. **Address**
5. **Date of Birth** - Must follow the format YYYY-MM-DD. Only individuals over the age of 18 or above may create an account.

5 Browse and search listings

5.1 Filters

Display existing listings by applying a number of possible filters.

1. Listing Type
2. Start Date (will display listings available on and after the start date)
3. End Date (will display listings available before the end date)
4. Min / Max Price
5. Toggle sorting by ascending or descending price
6. Add / Remove Desired Amenities

After selecting a filter to edit, enter the value to set for the filter. For example, typing "House" after selecting the filter "Listing Type" will set the filter to include only listings of type "House".

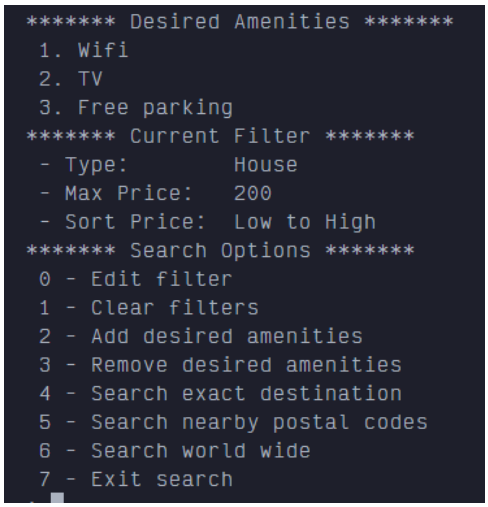

Figure 2. Example filters.

5.2 Search exact destination

Searching by exact destination allows for searching listings by the specific location fields including Street Address, Postal Code, City or Country. Only desired fields need to have a value.

5.3 Search nearby postal codes

Searching by nearby allows for searching listings by a given postal code and returning matching and adjacent postal codes. You may also enter a distance to limit the search to within that radius. Ignoring this field is the same as a worldwide search.

5.4 Search worldwide

Searching worldwide will display all listings in the MyBnB database that match the selected filters.

6 Book a listing

To make a booking, the listing id of the desired listing must be known. The user then must input a date range of the booking duration. If the listing is not available for any single data within the range, a message stating which days are unavailable is shown and the booking will be cancelled. The start date is the date of check-in, and the end date is the date of check-out.
If a booking is successful, the base price will be displayed along with the price including amenities. The total cost of stay is the sum of the base price and the price of amenities set by the host.

7 Cancel a booking

A booking can be cancelled by either the renter or the host. The listing id and the start date of the booking must be provided.

8 Rate and comment

All bookings may be rated by the renter and the host. The listing id and the start date of the booking must be provided in order to rate a booking. Cancelled bookings may receive ratings. A rating is a provided score between 1 and 5, where 5 is the highest and most favourable. Comments are optional, and can be skipped by entering the field blank.

8.1 Renters

Renters can provide a ratings of either the Host or the Listing only if they have stayed at the listing provided by that Host.

8.2 Hosts

Hosts can provide a ratings of the renter only if the renter has rented their listing.

9 Reports

A report can be generated which lists the result of a specific inquiry.

```
******* Run a report *******
 1 - Total number of bookings for a specified date range
 2 - Total number of listings in a specified area
 3 - Rank hosts by number of listings in a specified area
 4 - Find possible commerical hosts in a specified area
 5 - Rank renters by number of bookings within a specified time range
 6 - Rank hosts and renters by number of booking cancellations
 7 - Find the most popular noun phrase per listing
 8 - Exit reports
```

Figure 3. Supported reports.

9.1 Total number of bookings for a specified date range

The report can be further filtered by a given city and/or postal code

9.2 Total number of listings in a specified area

Provides the total number of listings, which can be filtered to total number of listings within a specified country, city and/or postal code

9.3 Rank hosts by number of listings in a specified area

The report can be further pruned by a specific country and/or city.

9.4 Find possible commerical hosts in a specified area

MyBnB does not support hosts that try to use the platform as a commercial marketplace. The report will display all the hosts either worldwide or within a specified area (country and/or city) who have a number of listings that are greater than 10 percent of the total number of listings in that area.

9.5 Rank renters by number of bookings within a specified time range

The report can also filter by city. Only renters who have made more than two bookings within the current year (From January 1st to the current date) will be shown.

9.6 Rank hosts and renters by number of booking cancellations

The report will generate separate lists for hosts and renters, ranking the top by number of cancellations.

9.7 Find the most popular noun phrase per listing

The report will generate a list of the most commonly used noun phrases within the comments per listing. The data can be useful for creating word clouds and for data visualization.

10 Account settings

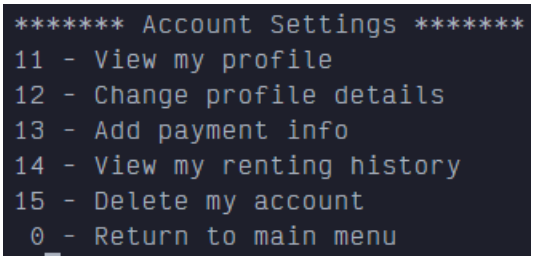

Figure 4. Account settings actions.

10.1 View profile

The user's profile display their SIN, occupation, address, and date of birth.

10.2 Change profile details

Select from Occupation, Address or Date of Birth to update, and provide the new value.

10.3 Add payment info

If the user has made a booking in the past, they can update their payment info with a new value.

10.4 View my renting history

Displays cards of all the user's previous bookings, including those that have been cancelled by the host or the renter.

10.5 Delete my account

Deletes the current session user's account. All postings made by the user will no longer be displayed, but the listing will still be stored in the database for report purposes. All bookings made by the user will be cancelled and deleted.

11 Host Toolkit

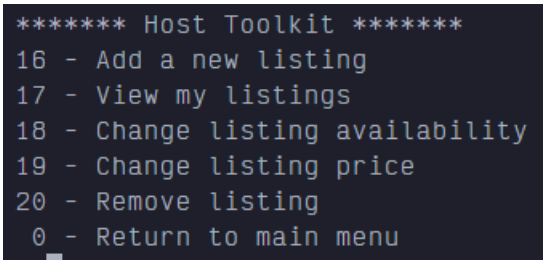

Figure 5. Host toolkit actions.

11.1 Add a new listing

To add a new listing, the following information must first be provided:

1. Listing Type
2. Latitude
3. Longitude
4. Street Address
5. Postal Code
6. City
7. Country

After validating these fields, a list of possible amenities will be displayed, sorted by popularity along with a suggested price to attach. The user can select zero or more amenities to add to their listing and must provided the additional price associated with each.
Finally, the user must enter an initial date range to mark as available, and give the price per night.
Suggested prices for both the base listing as well as each amenity will be shown.

11.2 View my listings

Displays cards of the user's active listings.

11.3 Change listing availability

The user can mark dates for a listing as available or unavailable, providing the listing id and a date range including a start date and end date.
If the user tries to make a date range as available that includes a date already booked, the entire operation will be cancelled.
If the user tries to mark a date range as unavailable that includes a date not currently set as available, the entire operation will be cancelled.

11.4 Change listing price

The user can change the price of a listing for a provided date range. If the date range overlaps with a booking, or includes date not currently set as available, the entire operation will be cancelled.

11.5 Remove listing

Removes a listing, given the listing id. Removing a listing will stop it from being displayed in searches, but will not remove its booking history from the database.