

# Dormitorio Partenopeo – Project Test Instructions

This document provides the instructions required to run and test the **Dormitorio Partenopeo** project.

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## Backend

Open a terminal and run:

```
cd /path/to/dormitorio_partenopeo/backend  
python3 main.py
```

Expected output:

```
* Running on http://127.0.0.1:5000  
* Debugger is active!
```

Open a browser and go to:

```
http://127.0.0.1:5000/
```

Expected result:

```
{"message": "Backend Flask running and connected to MongoDB"}
```

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## Frontend

Open a new terminal and run:

```
cd /path/to/dormitorio_partenopeo/frontend  
python3 -m http.server 8080
```

Expected output:

```
Serving HTTP on :: port 8080 (http://[::]:8080/) ...
```

Open a browser and go to:

```
http://127.0.0.1:8080/index.html
```

## Database

### MongoDB Atlas (Online – Recommended)

The backend is configured to connect to a **MongoDB Atlas online database** using a predefined test user.

- No MongoDB Atlas account is required to run or test the project.
- The professor can simply start the backend and frontend and use the application.
- All data is stored and retrieved automatically from the online database.

### MongoDB Local (Optional)

For additional safety and for local testing, a **database dump** is provided in the `db_dump/` folder.

#### Restore the database locally

1. Install MongoDB if it is not already installed:

2. **macOS (Homebrew):**

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"  
brew tap mongodb/brew  
brew install mongodb-community@7.0
```

3. **Windows or Linux:** follow the official MongoDB documentation: <https://www.mongodb.com/docs/manual/installation/>

4. Open a terminal and navigate to the project folder:

```
cd /path/to/dormitorio_partenopeo
```

5. Restore the database dump:

```
mongorestore --drop --db dormitory_db db_dump/dormitory_db
```

Explanation of parameters: - `--drop`: removes existing data before restoring - `--db dormitory_db`: specifies the database name - `db_dump/dormitory_db`: path to the dump folder

## Verification

1. Start the backend as described above.
  2. Open `http://127.0.0.1:5000/` in the browser to verify the MongoDB connection.
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## Test User Credentials

The following fictitious user is already registered in the database and can be used to test all the main functionalities of the application (login, bookings, reviews, promotions):

Student ID (Matricola): 2024000001  
Password: rossi123

These credentials are provided **only for project evaluation purposes**.

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## Notes

- All data contained in the database is **fictitious** and used only for project evaluation.
- The project can be fully tested without accessing MongoDB Atlas directly.
- The local database option is provided as a backup and for additional verification.