

# InstantParty

- For solo performers, party havers, or anyone looking for a space to rent out (ranging from a small venue to a large lot), **InstantParty** is an online marketplace that connects customers with space lenders. It provides a seamless and secure platform to book or list properties. Unlike Airbnb, our product is highly automated and values customer feedback.

## 2. Instructions for Running

### Steps to run:

1. **Clone the git repository, navigate to directory:**

```
git clone <repository_url>  
cd <repository_directory>
```

2. **Install dependencies:**

We've made a run.sh file for linux/ubuntu users that will create a virtual environment and install the dependencies to run our app.

```
./run.sh
```

(If this doesn't work for you, install the following dependencies from requirements.txt with pip install "dependencyName")

```
-flask, flask-cors  
-python3-venv, python-dotenv  
-node.js  
-express  
-npm  
-mongoose, bcrypt, supertest (for backend testing)
```

3. **Run the application:**

-NOTE: If you ran the run.sh file, it will run the server for you, but if you want to run it yourself, navigate to the directory and run the command

```
node backend/server.js from root directory
```

4. Open a browser and navigate to `http://localhost:10000` to view the application.
5. If you want to run backend tests, use the command:

```
npx Jest --coverage
```

### 3. Functional Requirements (FRs)

- User Authentication:
  - Users must be able to log into their account using their ID and password.
  - Users can edit their account information, including ID, password, managing listings, and account deletion.
- Listings Management:
  - Users can post a listing of the space they want to rent out, including pictures, price, address, and a detailed description.
  - Moderators can remove listings that violate terms of service (e.g., scams).
- User Ratings & Reviews:
  - Each user has a rating score (separate scores for renters and rentees).
- Search & Discovery:
  - A map system enables users to view nearby spaces in their desired area.
  - Users can browse multiple listings before selecting one they want to learn more about.
- Reservations & Payments:
  - Users can view their reservation before confirming payment.
  - Users can pay after choosing a listing and confirm the purchase afterward.

### 4. Non-Functional Requirements (NFRs)

- User Engagement:
  - Designed to maximize user interaction with an intuitive and interactive experience.
  - Includes mechanisms for collecting and analyzing user feedback (rating systems, surveys) to improve continuously.
  - Engagement metrics like session duration and retention rates should be monitored to ensure sustained user growth.
- Security & Privacy:

- User data, including payment methods and personal information, must be securely stored and hidden.
- Performance:
  - The platform must run smoothly with no stutters, maintaining high frame rates and fast response times.
- Cross-Platform Accessibility:
  - The platform must be accessible on any device.
- Usability:
  - The system should be easy to understand and use for all users.
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