

# Library Reservation System

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## 1 Introduction

We created a website that will allow user to create daily reservations to reserve tables at a library. The library has a fixed number of tables and table capacities defined in `reserveSystem.py` located in

```
p3/src/github.com/cmu440-F15/paxosapp/reservation_system/reserve
```

Users must input into the website their name, the number of people they want to reserve a table for and the start hour and end hour in military time that they would like to reserve the table for. The website will then print their reservation on the website should they get one, if the system does not have a table available for them then it will not be added to the listing of reservations on the website.

## 2 Running the website

Make sure to have go, python, and django installed. Complete steps to run the code and paxos system:

- Download the p3 tar file from autolab
- Set your GOPATH to point to the root of the p3 directory.
- Go to the following directory:

```
p3/src/github.com/cmu440-F15/paxosapp/reservation_system
```

and run the following code to start the paxos system:

```
$GOPATH/tests/paxostest.sh
```

- Go to the following directory:

```
p3/src/github.com/cmu440-F15/paxosapp/reservation_system
```

and run the following code to start the website:

```
python manage.py runserver
```

- Then go to

```
http://localhost:8000/
```

and the website should be running.

### 3 Key Files included in Application layer

- `p3/src/github.com/cmu440-F15/paxosapp/reservation_system`
- `p3/src/github.com/cmu440-F15/paxosapp/tests/paxostest`

- The first file is the entire `reservation_system` folder which contains the webapplication code which uses a django framework. The file `reserve/reserveSystem.py` contains code which communicates with the paxos ring and makes proposal requests. - The second file `paxostest.go` located in tests contains the code which starts the paxos ring and communicates with the webapplication with proposal results.