

Automated Cleaning Scheduler

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Description

- Web application to help Airbnb hosts schedule and manage cleanings for their properties.



Administrator Features

- Schedules new cleanings automatically via scraping Airbnb emails
- Easily add/edit/remove cleanings from the schedule
- See prices for every room, and total cost at end of month



User Features

- View of the next 7 days to see upcoming cleanings at a glance
- Full month view to plan out busy days
- Administrator can leave notes on cleanings for any special cases



Planning - User Stories

Created app for my friend who manages 7 Airbnb properties. His previous setup had many chances for human error, causing Airbnb guests to be inconvenienced. I focused on autonomy via scraping emails for check-out dates to populate the schedule.



Planning - Database

The app requires only 2 tables: rooms and cleanings.

The rooms table contains information about the properties: name, price per cleaning, and tagline to search for in the Airbnb email.

The cleanings table contains the date of the cleaning, what room it's for, and notes (if any) that give details about any special cases.



Technology Stack

- Java
- Spring MVC
- Thymeleaf
- Hibernate
- Hosted via Heroku



Demo

<http://airbnbcleaning.herokuapp.com>



What I Learned

- Rendering week and month views via tables and pagination
- Use of the JavaMail API to access gmail account
- New feature or problem (for example, creating a user profile or pagination of data on the screen)



What's Next

- Javascript to have the table header in the month view stick to top - viewing experience on mobile devices would be improved.
- Encrypting sensitive information - currently email and database login must be manually entered into the project.

