

Official Requirements

User stories

(in priority order from most to least important).

1. As a Park Manager I want to submit a new job.
2. As a Park Manager I want to delete a job.
3. As a Park Manager I want to edit the details of a job.
4. As an Volunteer, I want to view a summary of all upcoming jobs.
5. As an Volunteer, I want to view details of a selected upcoming job.
6. As a Volunteer I want to volunteer for a job.
7. As a Volunteer I want to view the jobs I am signed up for.
8. As a Park Manager I want to view a summary of all upcoming jobs in the parks that I manage.
9. As a Park Manager I want to view the Volunteers for a job in the parks that I manage.
10. As an Urban Parks staff member, I want to search volunteers by last name.
11. As an Urban Parks staff member, I want to view a summary of all upcoming jobs.
12. As an Urban Parks staff member, I want to view details of a selected upcoming job.

Business rules

1. A job may not be added if the total number of pending jobs is currently 30.
2. A job may not be added if the total number of pending jobs during that week (3 days on either side of the job days) is currently 5. In other words, during any consecutive 7 day period there can be no more than 5 jobs.
3. A Volunteer may not sign up for a work category on a job if the maximum number of Volunteers for that work category has already been reached.
4. A job may not be scheduled that lasts more than two days.
5. A job may not be added that is in the past or more than three months in the future.
6. A Volunteer may not sign up for a job that has passed.
7. A Volunteer may not sign up for two jobs on the same day.
8. A Park Manager can create jobs only for those parks that he/she manages.
9. A job may not be edited if there are already volunteers signed up for it.

Technical requirements

1. The system will be executed on a single machine as a desktop application with only a single user at a time.
2. The system will not have secure user authentication, but the user will identify himself/herself after system startup using unique email address. Each user will be associated with a single user role.
3. The user roles are “Urban Parks staff member”, “Volunteer”, and “Park Manager”. Only those tasks listed in the user stories can be done by users in particular roles.
4. Persistent data will be stored in one or more files on the local file system using Java Object Serialization.
5. The programming will be carried out using Java 8.x and JUnit 4.x.