Sequence Diagram *seqBookDaysOff*

User — **Dashboard** — **ScheduleBroker** — **Schedule** — **Notifications** — **EmployeeBroker** — **Employee**

1: Clicks on Users tab

2: Clicks on Days Off sidebar link

2.1: Display number of days user can book off in a noneditable textfield

2.1.1: Fetch a blank schedule template for one week

2.1.1.1: Get blank schedule

2.1.1.1.1: Return blank schedule

2.1.1.1.1.1: Return blank schedule

2.1.1.1.1.1.1: Display blank schedule

3: Clicks on a column in the displayed schedule that represents a day ...

3.1: Day off counter is removed and column is greyed out. Enable confi...

3.1.1: If no counters are left then do nothing

4: Changes schedule view to month

4.1: Send current blank schedule back to broker requesting different vi...

4.1.1: Requests 3 more blank week schedules

4.1.1.1: Returns three more blank weeks

4.1.1.1.1: Returns Month view

4.1.1.1.1.1: Generates month schedule using existing booked off days

5: Clicks on Confirm button

5.1: Display information in a list on the number of days booked off

6: Clicks Clear button

6.1: Tell blank schedule object to clear all bookings from it

6.1.1: Remove bookings from schedule

6.1.1.1: Return blank schedule

6.1.1.1.1: Display blank schedule

6.1.1.1.1.1: Set counter back to original value

7: Clicks Confirm button again

7.1: Retrieve User's supervisor

7.1.1: Get supervisor employee

7.1.1.1: Return supervisor employee

7.1.1.1.1: Send notification with list of booked off days

8: Clicks Clear button

8.1: See Step 5

9: Supervisor approves schedule

9.1: Writes days off to User's schedule

9.1.1: Get schedule

9.1.1.1: Write and save schedule

9.1.1.1.1: Create notification that User's days have been booked off

9.1.1.1.1.1: Notify user

10: Supervisor refuses to grant days off

10.1: Create notification of refusal

10.1.1: Notify user

10.2: Return days off counters back to user

10.2.1: Write counter back to original value for user