Note: The final document will need to be formatted as specified here: <http://aaronbloomfield.github.io/slp/slides/spring/02-deliverables.html#/stsreport>

Specific formatting: <http://www.acm.org/sigs/publications/proceedings-templates> (Tighter alternate style)

* Abstract
* Introduction
  + Innisfree is a residential community for adults with disabilities
  + Has ~40 residents that they take care of, as well as ~40 volunteers / staff
  + Current solution: Use a pen and paper system of scheduling
    - Too slow
    - Hard to keep records
    - Secretarial load
    - Hard to generate statistics and reports
  + SLP course structure
    - Group work, meeting structure
    - 2 week iterations, TDD (specific type of development methodology we are employing – in early slides)
* Background
  + Primarily used as a scheduling system to manage resident appointments
    - Provides easily accessible information and reminders to volunteers / staff
    - Manages checking out cars to drive residents to these appointments
  + Ruby on Rails
  + Testing done via Factories
* Related work
  + Google / Apple / other mainstream scheduling online scheduling options
    - Too generic, doesn’t allow for management of residents, doctors, and other involved parties
    - No user privilege levels
    - Optimized to be managed by one user; can’t have multiple users with their own individually generated calendars
    - Hard to filter calendars
  + Outlook
    - Too complex for requirements
    - Volunteers don’t want to spend time navigating a complex desktop-based system, they need a quick method to schedule and check appointments while on the go
    - No way of supporting car-reservation systems
    - No authentication-based privileges
* System Design
  + MVC model
  + Login system
    - Three levels of authentication
      * Admin / Staff
      * Volunteers
      * Workstation heads
    - Every account has an entry in Users
  + Appointments schedule (core functionality)
    - Upcoming appointments
    - Monthly calendar
  + Houses
    - Residents and volunteers are assigned to a specific house
    - Volunteers can perform CRUD operations on appointments and residents within their house
    - Houses created by admin (staff)
  + Doctors
    - List of doctors with basic information (name, type, contact)
    - Appointments specify a doctor that the resident is visiting
  + Cars
    - Calendar to show when certain cars are available
    - Can add cars available for use by volunteers / staff
    - Volunteers and staff can make reservations to use the car for an appointment
  + Reports
    - Dynamic report generation
    - Shows all the appointments with the given specifications
      * Can filter by houses, resident, doctor, type, and date
  + Add any particularly interesting design decisions (will need to discuss in meeting)
* Procedure
  + Staff and volunteers will use the website on a daily basis to:
    - Make appointments
    - View their current appointments
    - Make changes to residents, houses, etc.
    - Reserve cars
  + Data on residents, houses, etc. is updated as it changes
  + Volunteers sign up for email alerts to remind them of their residents’ appointments
  + Staff can generate reports of appointments for data backup / hard copies
* Results
  + The customer can much more efficiently manage their resident’s appointment schedules
  + The volunteers and staff can now access the management system from anywhere using their phone / computer
  + Requires actual numbers from user testing
* Conclusions
  + Designed an appointment scheduling system to allow Innisfree to manage their residents’ appointments via a web interface, which allows them to save time going through the process of scheduling appointments via the previous pen and paper method
  + Summarize major points from technical report
  + Summarize requirements, and the extent to which we satisfied them
* Future work
  + Creating a dedicated mobile app
  + Making the calendar more descriptive of appointments
  + Add and talk about more ideas for more features and improvements that could be added to the system in the future
* Acknowledgements
  + Ruby / Rails gems
  + Customer
* References
  + Innisfree website
  + Ruby on Rails website
  + Sites for gems we used
  + Tutorials we used
* Author list
  + Format for each entry:  
    “Xavier Palathingal  
    University of Virginia  
    [xvp2he@virginia.edu](mailto:xvp2he@virginia.edu)”