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”