Sprint Planning 12: 3/18 - 3/31

Scrum Master: Sarah S.

[**Product Backlog**](#)

Sprint Planning:
- Sprint Cycle Interval: 03/18/24 - 03/31/24

- Team Capacity: 106 hours
  - Sarah S: 20 hours
  - Carine: 20 hours
  - Brandon: 18 hours
  - Sarah P: 18 hours
  - Kay: 30 hours

- Identify Work:
  - Code - Account Management Center: Employee Account (Original Hours - 4 hours)
  - Code - Space Manager: Creator, List, Modify (Original Hours - 25 hours)
  - Code - Space Booking Center: Availability Display, Reservation, Manage (Original Hours - 17 hours)
  - Code - Reservation Confirmation Email (Original Hours - 12 hours)
  - Code - Personal Overview Center (Original Hours - 14 hours)
  - Code - Waitlist (Original Hours - 12 hours)
  - Unit Tests - Space Manager: Creator, List, Modify (Original Hours - 19 hours)
  - Unit Tests - Space Booking Center: Availability Display, Reservation, Manage (Original Hours - 14 hours)
  - Unit Tests - Reservation Confirmation Email (Original Hours - 3 hours)

- ○ Auto Tests - Account Center: Registration, Deletion (Original Hours - 30 hours)
- ○ Auto Tests - Space Manager: Creator, List, Modify (Original Hours - 25 hours)
- ○ Auto Tests - Space Booking Center: Availability Display, Reservation, Manage (Original Hours - 20 hours)
- ○ Sprint 12 Documentation (Original Hours - 2 hours)

- ● <u>Assign Work:</u>
  - ○ Kay
    - i. Code - Space Manager: Creator, List, Modify (Original Hours - 25 hours)
    - ii. Unit Tests - Space Manager: Creator, List, Modify (Original Hours - 19 hours)
    - iii. Auto Tests - Space Manager: Creator, List, Modify (Original Hours - 25 hours)
    - iv. Code - Account Management Center: Employee Account (Original Hours - 4 hours)
  - ○ Carine
    - i. Code - Space Booking Center: Availability Display, Reservation, Modify (Original Hours - 17 hours)
    - ii. Unit Tests - Space Booking Center: Availability Display, Reservation, Manage (Original Hours - 14 hours)
    - iii. Auto Tests - Space Booking Center: Availability Display, Reservation, Manage (Original Hours - 20 hours)
  - ○ Sarah P.
    - i. Code - Waitlist (Original Hours - 12 hours)
    - ii. Auto Tests - Account Center: Registration (Original Hours - 30 hours)
  - ○ Brandon
    - i. Code - Personal Overview Center (Original Hours - 14 hours)
    - ii. **Secondary** Auto Tests - Account Center: Deletion (Original Hours - 30 hours)

- ○ Sarah S.
    - i. Code - Reservation Confirmation Email (Original Hours - 5 hours)
    - ii. Unit Tests - Reservation Confirmation Email (Original Hours - 3 hours)
    - iii. **Tertiary** Auto Tests - Account Center: Registration, Deletion (Original Hours - 30 hours)
    - iv. Sprint 12 Documentation (Original Hours - 2 hours)

- ● <u>Task Breakdown:</u>
    - ● Kay
        - ○ Code - Space Manager: Creator, List, Modify (25 hours)
            - ■ General: Construct tables in database (1 hour)
            - ■ Creator: As a Company/Facility Manager, I want to be able to upload images of my offices' floor plans to the platform, so that I can provide clear spatial layouts to employees (10 hours)
                1. Research and Setup AWS S3 Buckets
                2. Create Models for service
                3. Create upload image service
                4. Construct frontend for SpaceManager View: uploading image form
                5. Connecting ajax with controller
            - ■ List: As a Company/Facility Manager, I want to be able to create a list of reservable spaces that will be located below the floor plan image, so that users can easily identify, select, and reserve office spaces. (8 hours)
                1. Create Models for service
                2. Create space listing service
                3. Construct frontend for SpaceManager View: uploading list of spaces form
                4. Connecting ajax with controller

- ■ **Modify:** As a Company/Facility Manager, I want to be able to modify the list of reservable spaces that will be located below the floor plan image, so that I can ensure the list remains accurate and up-to-date (6 hours)
    1. Create modify spaces service
    2. Research how to edit images on S3 buckets
    3. Construct frontend for SpaceManager View: modify spaces form
    4. Connecting ajax with controller
- ○ Unit Tests - Space Manager: Creator, List, Modify (19 hours)
    - ■ Unit Test - Creator (6 hours)
        1. Back End
        2. Front End
    - ■ Unit Test - List (6 hours)
        1. Back End
        2. Front End
    - ■ Unit Test - Modify (7 hours)
        1. Back End
        2. Front End
- ○ Auto Tests - Space Manager: Creator, List, Modify (25 hours)
    - ■ Research how to do auto tests (5 hours)
    - ■ Auto Test - Creator (10 hours)
        1. Back End
        2. Front End
    - ■ Auto Test - List (5 hours)
        1. Back End
        2. Front End
    - ■ Auto Test - Modify (5 hours)
        1. Back End
        2. Front End
- ○ Code - Account Management Center: Employee Account (4 hours)

- ■ Research email implementation and design email templates
- ■ Integrate into project
- ■ Integrate email service provider
- ■ Implement functions for different email types

Total: 25 hrs + 19 hrs + 25 hrs + 4 hrs = 73 hrs
Calculations: 30 hrs - 73 hrs = EP
Net EP: +43 hrs

- ● Carine
  - ○ Code - Space Booking Center: Availability Display, Reservation, Manage (17 hours)
    1. Availability Display: As an authenticated user, I want to see visual indicators on the view of spaces that clearly distinguish between available and occupied spaces so that it is easier to find an available space to reserve. (4 hours)
       a. Create View - list spaces & color code
       b. Code Display Service
       c. Create unit tests for Display Service
       d. Create controller
       e. Connect front and backend with ajax
    2. Reserve space: As an authenticated user, I want the ability to reserve a specific space from the list of available spaces showcased on the view, ensuring I have access to the space when needed. (4 hours)
       1. Reservation Service - continue
       2. Create controller
       3. Connect front and backend with ajax
    3. User Reservations Display: (4 hours)
       1. Create controller
       2. Connect front and backend with ajax
    4. Cancel Reservation: As an authenticated user, I want the ability to cancel my existing reservations at a facility,

ensuring I can cancel before my reservation time based on changing needs. (2 hours)

1. Create Cancel Reservation form
2. Cancel Reservation service
3. Create controller
4. Connect front and backend with ajax

5. Modify Reservation: As an authenticated user, I want the ability to modify my existing space reservations at a facility, ensuring I can adjust my plans before my reservation time based on changing needs. (3 hours)

1. Create Modify Reservation form
2. Modify Reservation Service
3. Create controller
4. Connect front and backend with ajax

- Unit Tests - Space Booking Center: Availability Display, Reservation, Manage (14 hours)
  1. Cancel Reservation Unit Tests (2 hours)
  2. Create Reservation Unit Tests (4 hours)
  3. Modify Reservation Unit Tests (4 hours)
  4. Availability Display Service Unit Tests (4 hours)
- Auto Tests - Space Booking Center: Availability Display, Reservation, Manage (20 hours)
  1. Research unit Tests (4 hours)
  2. SpaceBookingCenter Unit Tests (4 hours)
  3. Availability Display Unit Tests (4 hours)
  4. Reservation Unit Tests (4 hours)
  5. Modify/Cancel unit Tests (4 hours)

Total: 17 hrs + 14 hrs + 20 hrs = 51 hrs
Calculations: 51 hrs - 20 hrs = 31 EP
Net EP: +31

- Sarah P.
  - Code - Waitlist (12 hours)

- - - ■ Construct any necessary tables in database (1 hour)
    - ■ Waitlist Entry and WaitlistService classes (6 hours)
    - ■ Controller (1 hours)
    - ■ Frontend: HTML + CSS (2 hours)
    - ■ Frontend: Javascript (2 hours)
  - ○ Auto Tests - Account Center: Registration (SPLIT HOURS - 6 hours)
    - ■ Test planning (2 hours)
    - ■ Environment setup (1 hour)
    - ■ Test cases designing (3 hours)

      Total: 1 hrs + 6 hrs + 1 hrs + 2 hrs + 2 hrs + 2 hrs + 1 hrs + 3 hrs= 18 hrs
      Calculations: 18 hrs - 18 hrs = 0 EP
      Net EP: 0 EP

- ● Brandon
  - ○ Code - Personal Overview Center (14 hours)
    - ■ Add any tables required to the database (1 hour)
    - ■ PersonalOverview Class (6 hours)
    - ■ PersonalOverview Controller (2 hours)
    - ■ HTML (1 hour)
    - ■ CSS (2 hours)
    - ■ Javascript (4 hours)
  - ○ **Seconday**Auto Tests - Account Center: Deletion (SPLIT HOURS - 6 hours)
    - ■ Test Planning (2 hours)
    - ■ Environment Setup (1 hour)
    - ■ Designing Test Cases (3 hours)

      Total: 14 hrs + 6 hrs = 20 hrs
      Calculations: 20 hrs - 18 hrs = 2 EP
      Net EP: + 2

- Sarah S.
  - Code - Reservation Confirmation Email (Original Hours - 12 hours)
    - Construct any necessary tables in database (1 hour)
    - SSEmailService (2 hours)
      - sendConfirmation
    - SSCalendarService (4 hours)
      - Research (1 hour)
      - calendarLink (3 hours)
    - Connecting SSEmailService with Space Booking Center (2 hours)
      - Call SSEmailService through booking center service
    - Frontend (3 hours)
      - Email design and layout (1 hour)
      - Resend Email function (1 hour)
      - Confirm Email function (1 hour)
  - Unit Tests - Reservation Confirmation Email (Original Hours - 3 hours)
    - SSEmailService send email (1 hour)
      - Success outcomes
      - Failure outcomes
    - createCalendar returns proper ICS link (1 hour)
      - Success outcomes
      - Failure outcomes
    - User confirms email was sent (1 hour)
      - Success outcomes
      - Failure outcomes
  - **Tertiary** Auto Tests - Account Center: Registration, Deletion (SPLIT HOURS - 4 hours)
    - Environment setup (1 hour)
    - Test cases designing (3 hours)
  - Sprint 12 Documentation (2 hours)
    - Planning (1 hour)

- ■ Stand Ups (25 mins)
- ■ Retrospective (25 mins)
- ■ Burndown Charts (25 mins)
- ■ Backlog (25 mins)

    Total: 1 hr + 2 hrs + 4 hrs + 2 hrs + 3 hrs + 3 hrs + 4hrs + 2 hrs = 17 hrs

    Calculations: 21 hrs - 20 hrs = 1 EP

    Net EP: +1

- **Analyze (Team Velocity):**
  - Team Capacity: 106 hours
  - Work Item Time: 197 hours
    - i. Majority of hours from Space Manager and Space Booking Center
      - Must be taken on in order to finish features by code reviews
  - Negative EP: N/A
  - Positive EP: Kay, Carine, Brandon, Sarah S.
  - Kay and Carine must prioritize peer review in order to start coding for app-specific features
    - i. Code reviews on 3/25 and 4/1
  - Demo Day: Email Vong First