Developed by **ShiftTree Team**

Sprint 3 Plan

Completion Date: 11/12/24

Goal: Make ShiftTree info more detailed, finalize shift inputs, and implement automated schedule generation (MVP)

Roles:

Noah: Full-Stack Developer, Product Owner
User Story 19, Schedule Generation Backend
User Story 24, Calendar export

Evan: Full-Stack Developer, Scrum Master
User Story 19, Schedule Generation Backend
User Story 25, CSV export

Matthew: Full-Stack Developer
User Story 20, Detailed shift info
User Story 26, ShiftTree open/closed status

Santi: Front-End Developer
User Story 19, Schedule Generation Frontend
User Story 23, Shift sign up weighting

Harrison: Front-End Developer
User Story 21, Detailed member information (for managers)
User Story 26, ShiftTree open/closed status

User Stories/Tasks:

- **#19: As a manager I want to automatically generate shift assignments based on employees' selections.** [8 story points]
  - Server for running scheduling algo [3 hours]
  - Backend to send shift info to server and write result to DB [1.5 hours]
  - Frontend for generating schedule [1 hour]

- ○ Add constraints for overlapped or adjacent shifts [30 minutes]
- **#20: As a user, I want to see detailed information about the shift.** [5]
  - ○ Endpoints for getting current user's signups and assignments [1.5 hours]
  - ○ Display signed up/assigned status on shifts [45 minutes]
  - ○ Display start and end dates if shift spans multiple days [30 minutes]
- **#21: As a manager I want to be able to see detailed information for each employee so that I know what shifts they have signed-up for and/or have been assigned to.** [3]
  - ○ Display signups and assignments for each user in members tab of ST settings [1 hour]
  - ○ Add chip component to show the employee assigned to a shift (manager view) [30 minutes]
  - ○ Implement clicking on shift to see all signed up employees [30 minutes]
- **#22: As a manager, I want tools to more efficiently create schedules to save time when creating many shifts.** [2]
  - ○ Implement selecting the dates to copy [1 hour]
  - ○ Button to execute the copy [30 minutes]
- **#23: As an employee, I want to rate shifts when I sign up for them, based on how it fits into my schedule.** [5]
  - ○ Add slider that places a weight for a shift during sign up process [2 hours]
- **#24: As a user, I want to be able to export my shifts into my google calendar.** [3]
  - ○ Add button on frontend for downloading in ICS format [30 minutes
  - ○ Create endpoint to generate ICS file based on assigned shifts [1 hour]
- **#25: As a manager I want to be able to export shift assignments to use in other software.** [3]
  - ○ Add button on frontend for downloading in CSV format [30 minutes]
  - ○ Create endpoint to generate CSV file based on assigned shifts [1 hour]
- **#26: As a user, I want to see if a ShiftTree is still accepting signups from the dashboard.** [3]
  - ○ Create DB view to see the state of a schedule [30 minutes]
  - ○ Add endpoint to get the state of a schedule [1 hour]
  - ○ Add chip components to show the status [30 minutes]

Scrum Board:

User Story	To-Do	In-progress	Done
As a manager I want to automatically generate shift assignments based on employees' selections.	Server for running scheduling algo Backend to send shift info to server and write result to DB Frontend for generating schedule Add constraints for overlapped or adjacent shifts		
As a user, I want to see detailed information about the shift.	Endpoints for getting current user's signups and assignments Display signed up/assigned status on shifts Display start and end dates if shift spans multiple days		
As a manager I want to be able to see detailed information for each employee so that I know what shifts they have signed-up for and/or have been assigned to.	Display signups and assignments for each user in members tab of ST settings Add chip component to show the employee assigned to a shift (manager view) Implement clicking on shift to see all signed up employees		
As a manager, I want tools to more efficiently create schedules to save time when creating many shifts.	Implement selecting the dates to copy Button to execute the copy		
As an employee, I want to rate shifts when I sign up	Add slider that places a weight for a shift during		

for them, based on how it fits into my schedule.	sign up process		
As a user, I want to be able to export my shifts into my google calendar.	Add button on frontend for downloading in ICS format Create endpoint to generate ICS file based on assigned shifts		
As a manager I want to be able to export shift assignments to use in other software.	Add button on frontend for downloading in CSV format Create endpoint to generate CSV file based on assigned shifts		
As a user, I want to see if a ShiftTree is still accepting signups from the dashboard.	Create DB view to see the state of a schedule Add endpoint to get the state of a schedule Add chip components to show the status		

Scrum Times:

Tuesday (in-person) @ 5:00-7:00 pm
Wednesday (online) @ 9:00-10:00 pm
Thursday (online) @ 9:00-10:00 pm

Initial Burnup Chart:

Sprint 3 Initial Burnup