ShiftTree

Developed by **ShiftTree Team**

Release Summary

Revision Date: 04 Dec 2024
Current Release: v1.0.2
shifttree.org

Key User Stories:

Unregistered User: User that does not have an account
General User: Any user of the Service
Manager: User primarily focused on creation of ShiftTrees and automatic generation of schedules.
Employee: User primarily focused on being assigned shifts.

User Story	Acceptance Criteria
As an unregistered user, I want to register for the service.	Given that I have a valid email address, when I click the register button on the login page and enter my name, a valid email, a password, and the same password for confirmation in the register form, then I will be redirected to the login page with an account created with those credentials.
As a registered user, I want to log in to the Service so I can access my account.	Given that I have an existing account, when I enter my account details (email, password), then I am redirected to the home page for my account and given a session token.
As a manager I want to create new ShiftTrees so that I can use it to schedule shifts.	Given that I am logged in, when I click on some button on the dashboard and enter a schedule name then I want a schedule with that name to be created with myself as the owner and be displayed on my home page.
As an employee, I want to see and select shifts I am available in the ShiftTree so I can then sign up for them.	Given that I am a member of a ShiftTree, when I navigate to that ShiftTree page, then I should see a calendar containing all of the shifts in the ShiftTree and be able to click those shifts and register for them.

As a manager, I want to create shifts within a ShiftTree with set dates/times that employees can then sign up for.	Given that I am the owner of a ShiftTree, when I click on an add shift button in the ShiftTrees home page and enter shift details, then a shift with those exact details should be created.
As an employee, I want to join a ShiftTree given to me by my manager so that I can be part of my job's shift selection process.	Given that I have an invite code for a ShiftTree I am not a member of, when I enter the invite code into a form field then I should be added to a new ShiftTree
As an employee, I want to have access to the ShiftTrees that I am a member of.	Given that I am a member of a ShiftTree, when I click on the corresponding ShiftTrees icon, then I should be taken to a page containing all of the shifts in that ShiftTree
As a manager I want to invite users to join my ShiftTree so I can assign shifts to them.	Given that I am the owner of a ShiftTree, when I click on a display to get a ShiftTree invite then I should be given a code that will allow other users to join my ShiftTree
As a manager I want to automatically generate shift assignments based on employees' selections.	Given that I have a ShiftTree with some amount of signups when I click generate, then an optimal/valid schedule given the signups provided should be generated and displayed
As a user, I want to see all available shifts in a shiftTree.	Given that I am a member of a ShiftTree when I view the entire ShiftTree then I should see a calendar like UI showing all of the shifts and their information. (date range, signed up, assigned)
As a manager I want to be able to export shift assignments to use in other software.	Given that I am the manager for a ShiftTree when I click generate ICS then I should receive an ICS file containing the shifts with the signed up users emails in the description for each shift and each shift having the title Schedule Name: Signed up Employees
As a manager, I want to be able to create shifts with multiple slots so that multiple	Given that I am the manager for a ShiftTree when I create a shift and increase

employees can work one shift if needed.	the number of employees for that shift then a shift that is displayed as one shift with that number should be created
As a manager, I want to be able to set the recommended shifts for each of my employees.	Given that I am the manager for a ShiftTree when I view my sign up employees and click an arrow next to the recommended shifts per employee then it should increase or decrease the number of shifts that employee will be assigned

Known Issues:
- A user can sign up with an invalid gmail
- Downloading CSV, ICS, or LogData for an unclosed schedule causes Internal Server Error.
- Assigned Shifts not automatically populating after generate, need to refresh
- Log data is not fully finished
- Sometimes when registering, the requested weight is set to null. This can be seen through the logs.
- The log file contains only the user ids, but there is no way for the manager to see people's user ids, so there is currently no way of telling who each user in the logs refers to.
- The log file only displays request weights of 0, 1, and null.
- Shift spacing does not work (does not change the default value: 24)
- Registration accepts valid looking email addresses, but does not check if they are actually valid by verifying the user controls the email address.
- Increasing the employee count of a shift after it is assigned does not assign the new slot. Then reducing this count later may delete an assignment.
- Increasing the count of a shift after people register does not register them for new slots. Reducing the count (even with empty slots) may remove someone's registration. Reproduction steps:
  - Create a shift in a ShiftTree with at least 2 members
  - Increase it to 2 slots
  - Run auto schedule
  - Increase the shift to 3 slots, save, then decrease to 2 slots, then save again
  - One of the users may have their assignment removed. If not, try again until it happens

- Css issue causes the window to change size rapidly when resizing using Chromium on Gnome on Fedora 41, when on the schedule view page. This happens when resizing the window to mobile mobile size, and can make it hard to resize the window back.
- Member drawer view (only managers can see) shows all individual registered shifts, regardless if the shifts are in the same time slot. While technically correct, it might be confusing for managers because the shifts are displayed in the calendar as being stacked with a count of how many shifts.
- If you create a shift, and without saving, change the start or end time and increase the count, some of the duplicated shifts get the old time, and some get the new time.
- When looking at the people signed up for a shift, if the shift has multiple slots, then the people show up twice in the list of registered members.
- When someone leaves a ShiftTree or is kicked, their sign ups persist and they will still be assigned shifts.
- The weighting is somewhat unintuitive. Total distance between min and max weight per user is normalized which may be a little confusing for users.

Product Backlog:
- As an employee, I want to be able to see how much I will be paid for my current ShiftTree.
- As a manager I want to be able to label how much the pay is for each shift so that employees know what they're signing up for.
- As a general user I want to be able to know any extra information about a shift.
- As a manager I want to be able to select a schedule Template and automatically generate that template.
- As an employee, I want to be able to trade shifts with my coworkers.
- As an employee, I want to be able to request coworkers to cover assigned shifts that I suddenly cannot work.
- As a manager I want to be able to add weights to shifts that are higher priority.
- As a manger, I want to be able to copy a ShiftTree
- As a user, I want to ensure that my entered gmail address is actually a real gmail address
- As a manager I want to be able to create orgs with separate channels so that I can differentiate between different shift types
- As a manager I want to be able to manage the employees in my org and their shift selections.
- As a manager I want to be able to add other managers so that they can also schedule the shifts.