**Epics:**

* The tracker needs to be able to track time in a consistent way
  + User can enter decades/years/months and then it’s converted into months for the code
  + As a developer, I want to track everything on a monthly basis so that it is consistent
* The program starts by asking how long the simulation will run for
  + As a user, I want to be able to input how long the simulation will last
  + As a user, I want to select the unit of time for the simulation so that I can enter the data in a familiar way
* Every month, a random number of trainees are generated wanting to be trained (20 -30)
  + As a developer, I want to be able to generate a random number between 20 and 30
  + As a developer, I want to create new trainees
  + As a tester, I want to test whether the number of new trainees is between 20 and 30.
* Every 2 months, Sparta global opens a training centre. They open instantly and can take trainees every month
  + As a developer, I want to create a unique training centre every 2 months so that the system can work properly
  + As a developer, I want new training centres to be empty so that there’s no existing trainees in the centre and the maximum capacity can be reached.
  + As a developer, I want new training centres to open instantly so that trainees can be trained straight away.
  + As a developer, I want training centres to accept new trainees every month so that the system can work properly
* A centre can train a max of 100 trainees and takes a random number of trainees every month. (0 - 20 trainees per month up to the max capacity)
  + As a developer, I want to add trainees to the waiting list if all centres are full so that all trainees are accounted for
  + As a developer, I want training centres to have a maximum capacity so that they’re not overfilled
  + As a developer, I want training centres to take on trainees each month if there’s space so that trainees can be trained
  + As a developer, I want a function that generates a random number between 0 and 20 so that I can model trainee intake
* If a centre is full, trainees can be moved to any other centre which is not full
  + As a developer, I want a function to check if a centre is full so that centres can take on trainees.
  + As a developer, I want a function to move trainees between centres so that excess trainees can be relocated.
* If all centres are full, the trainees go onto a waiting list. This list must be served first before new trainees are taken
  + As a developer, I want a waiting list so that I can track any unassigned trainees.
  + As a developer, I want trainees on the waiting list to be assigned before new trainees so that first come first serve basis is applied.
  + As a developer, I want a function to move trainees between the waiting list and non-full centres so that trainees can trained.
* At the end of the simulation, output should show:
  + number of open centres
    - As a user I want to see the number of open centres at the end of the simulation so that the total number of centres are displayed
  + number of full centres
    - As a user I want to see the number of full centres at the end of the simulation so that the total number of full centres are displayed
  + number of trainees currently training
    - As a user I want to see the number of trainees currently training at the end of the simulation so that the total number of trainees training are displayed
  + number of trainees on the waiting list
    - As a user I want to see the number of trainees on the waiting list at the end of the simulation so that the total number of trainees yet to be trained are displayed