Medical Equipment Warranty System

As a hospital administrator, I want to login to my user page so that I can see a list of my warranty requests and their statuses.

As a hospital administrator, I want to be able to select a warranty request, so that I can track its replacement/shipping status.

As a hospital administrator, if I have a defective device, I want to submit a warranty request, so that I can receive a new device free of charge.

As a hospital administrator, if I have a defective device, I want to submit a request for a new device out of warranty, so that I can receive a placement at a fee.

As a company manager, I want to login to my user page, so that I can see a list of all warranty requests, their statuses and be able to approve or deny the requests.

As a company manager, I want to accept or refuse a warranty request, so that I can issue the proper device.

As a company manager, I want to accept or refuse a request for a device repair, so that I can issue a repaired device.

Database Structure: (One to Many)

1. Users (hospital administrator / managers)
   1. User ID SERIAL PRIMARY KEY
   2. First Name VARCHAR NOT NULL
   3. Last Name VARCHAR NOT NULL
   4. Company/Hospital Name VARCHAR NOT NULL
   5. Password NOT NULL (P@ssw0rd)
2. Device Warranty
   1. Warranty ID SERIAL PRIMARY KEY
   2. Device Type VARCHAR NOT NULL
   3. Device Serial Number NUMERIC NOT NULL
   4. Warranty Issue Date DATE NOT NULL (ex. 2021.11.11)
   5. Warranty Expiration Date DATE NOT NULL (initial date + 2 years) (ex. 2023.11.11)
   6. Warranty Amount NUMERIC NOT NULL
   7. Request Issue Date DATE NOT NULL (ex. 2022.29.07)
   8. Recall Status (device has been recalled (Y/N)) BOOLEAN DEFAULT FALSE
   9. Confirmation (warranty has been received & red (Y/N)) BOOLEAN DEFAULT FALSE
   10. Warranty Requester FOREIGN KEY (username)
   11. Warranty Resolver FOREIGN KEY (username)

Types of devices (example):

1. Heart monitor
2. Breathing machine
3. EKGs
4. CAT/MRI scanners
5. Medical beds
6. IVs

Backend:

* Java
* Endpoints
  + User
    - Login (HTTP sessions)
    - Logout
    - Login status
  + Warranties
    - Get warranties by user id
    - Get all warranties
    - Update warranty
    - Add warranty

Frontend:

* HTML / CSS (Bootstrap) / JS
* Pages
  + Login Page (username / password / submit button)
  + Administrator page (table of requests)
    - Button to navigate to submit warranty request page
  + Submit warranty request page
  + Company manager page (table of all requests)
  + Home page (if time allows)