

## Path to the implementation of functions and files:

### Admin

- Login
  - Backend:
    - backend/api/user
  - Frontend:
    - frontend/src/app/homepage
    - frontend/src/app/login/login-user (when logging out)
- Dashboard
  - Backend:
    - backend/api/user
      - Get all users/patients in the system
    - backend/api/doctor
      - Get all doctors in the system
  - Frontend:
    - frontend/src/app/admin
- Backups
  - Backend:
    - backend/backup.js
  - Frontend:
    - frontend/src/app/admin

### Patient

- Registration
  - Backend:
    - backend/api/user
  - Frontend:
    - frontend/src/app/user/registrate
- Login
  - Backend:
    - backend/api/user
    - backend/api/email.js
      - If the user/patient clicks 'Forgot Password' the system will send an email.
      - The email can be inspected here: <http://localhost:1080/>
  - Frontend:
    - frontend/src/app/homepage
    - frontend/src/app/login/login-user
      - This page is shown after a user/patient logged out
- Dashboard
  - Permission states of the health records:
    - Grant permission => status 'done', permission '1'
    - Deny permission => status 'done', permission '0'
  - Internal states of an appointment:
    - Today's and upcoming appointments have the status 'accepted'
    - Upcoming appointments can be canceled => status 'canceled'
    - Requested appointments have the status 'requested'
    - Requested appointments can be canceled => will be deleted

- Declined appointments have the status 'declined'
  - Declined appointments can be removed from overview => will be deleted
- Backend:
  - backend/api/appointment
    - Get today's, upcoming, requested, declined appointments
    - Cancel appointments
    - Delete appointments
  - backend/api/health-records
    - Get requests for granting permission to see health records
    - Grant permission to see health records
    - Deny permission to see health records
  - backend/api/doctor
    - Get information of doctor to display doctor's information for each appointment
- Frontend: frontend/src/app/user/dashboard
- Search for Doctors
  - Search by doctor's name and specialization
  - Results corresponding to the search string are displayed as individual cards:
    - Doctor's name
    - Specialization
    - Email
    - Address of doctor's office
  - Backend: backend/api/doctor
    - Get all doctors in database
  - Frontend: frontend/src/app/user/search
- Appointments
  - Backend:
    - backend/api/appointment
      - Make/request appointment
    - backend/api/doctor
      - Get all doctors in database
  - Frontend: frontend/src/app/user/appointment
- Health Records
  - Each sub-part of health record is managed in its own table in the database
  - Backend:
    - backend/api/health-records
      - Save and edit health records
  - Frontend:
    - frontend/src/app/user/health-records
- Profile
  - Display information of current logged user/patient
  - Backend:
    - backend/api/user
  - Frontend:
    - frontend/src/app/user/profile
- Edit Profile
  - Backend:

- backend/api/user
- Frontend:
  - frontend/src/app/user/edit

## Doctor

- Registration
  - Backend:
    - backend/api/doctor
  - Frontend:
    - frontend/src/app/doctor/registrate
- Login
  - Backend:
    - backend/api/doctor
    - backend/api/email.js
      - If the doctor clicks 'Forgot Password' the system will send an email.
      - The email can be inspected here: <http://localhost:1080/>
  - Frontend:
    - frontend/src/app/login/login-doctor
- Dashboard
  - Internal states of an appointment:
    - Today's and upcoming appointments have the status 'accepted'
    - Upcoming appointments can be canceled => status 'canceled'
    - Requested appointments have the status 'requested'
    - Requested appointments can be accepted => status 'accepted'
    - Requested appointments can be declined => status 'declined'
    - Appointment made by using the calendar (clicking on a date) have the status 'accepted'
  - Backend:
    - backend/api/appointment
      - Get today's, upcoming, requested, appointments
      - Cancel appointments
      - Accept appointments
      - Decline appointments
      - Make appointment by using calendar
    - backend/api/user
      - Get information of user/patient to display patient's information for each appointment
    - backend/api/doctor
      - Get patients' e-mail addresses who had at least one appointment with the current logged doctor
    - backend/api/email.js
      - Send e-mail to current logged doctor's patients
  - Frontend: frontend/src/app/doctor/dashboard
- Patient Records
  - Search by patient's name and request the health records
  - Condition: patient needs to have at least one appointment with the doctor to be able to be searched by the doctor
  - Patients' health records are displayed as accordion

- Internal states of an appointment:
  - doctor requests a patient's health record => status 'requested', permission 'NULL'
  - user denies permission => status 'done', permission '1'
  - user grants permission => status 'done', permission '0'
- If status 'requested', permission 'NULL': field is grayed out and doctor cannot see patient's health records yet
- If status 'done', permission '0': field is grayed out and doctor cannot see patient's health records
- If status 'done', permission '1': field can be clicked, patient's health records is displayed
- Backend:
  - backend/api/appointment
    - Get all doctor's appointments (to check which patients have appointments with the doctor)
  - backend/api/user
    - Get users' information
  - backend/api/health-records
    - Request permission to see health records
    - Get all requested permissions regardless of status and whether permission has been granted
- Frontend:
  - frontend/src/app/doctor/patient-records
- Profile
  - Display information of currently logged doctor
  - Backend:
    - backend/api/doctor
  - Frontend:
    - frontend/src/app/doctor/profile
- Edit Profile
  - Backend:
    - backend/api/doctor
  - Frontend:
    - frontend/src/app/doctor/edit