

Hospital Record Log System Proposal

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Overview:

Application to store patient records and maintain record of diagnosis. Generate reports when required of patient history.

Features:

- Authentication.
- Version history tracking.
- Dynamic PDF report generation.
- Responsive application for user views.
- Image storage of patients and of diagnosis.

Frontend Views:

- Authentication:
 - Login
 - 404
 - Unauthorised
- Patient information view:
 - Display patient name, last visit, last attendant name, image of patient.
 - Search by patient name.
 - Sort by visit date.
 - Filter by attendant
 - Delete all information related to a specific patient.
 - Edit patient name.
 - Create new patients.
 - Download PDF report with complete patient history for a specific patient.
 - Button to allow the attendant to log information about a specific visit.
- Patient Visit Log View:
 - Display dates or visit and the attendant for each visit, with required course of action, outcome, images and remarks.
 - Edit visit log. (Discuss about permissions and if previous records should be editable)
 - Delete visit log. (Discuss about permissions and if previous records should be deletable)

- Sort by visit date.
- Filter by attendant.
- Auto log the last edited time, time of appointment, name of attendant.

Data Models:

- User (name, email, password, group)
- Patient (name, image, contact, age, gender)
- Appointment (patient, user, outcome, action, remarks, image_list)

Technical Details:

- Database: PostgreSQL
- Frontend: React JS
- Styling: MUI (core + data grid)
- Backend: Django
- Authentication mechanism: JWT
- Architecture: Monolithic