Virtual Ward Platform

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Problem Statement

- The National Health Service (NHS) is facing a critical crisis due to a mismatch between clinical demand and capacity, which poses significant risks to patient care and system efficiency.
- **Elective Wait List Growth:** With over 12 million patients projected to be on the NHS elective waitlist by 2025, the current system lacks the capacity to meet growing demands. This backlog delays critical treatments, exacerbating health outcomes for patients.
- **High NHS Vacancy Rate:** The NHS is grappling with a 12% vacancy rate, amounting to approximately 93,806 unfilled positions. This workforce shortage not only places undue stress on existing staff but also reduces the ability of the NHS to provide timely and effective care.
- **Dangerously High Occupancy Rates:** Over 54% of hospitals are dangerously over-occupied, compromising patient safety and straining resources to a breaking point.

Solution

- Virtual care platform helping hospitals to work on the aim of NHS maximizing virtual wards across the country to reduce the number of stays within the hospitals and addressing the staff shortage problem.
- This will be a cloud-based technology platform for remote patient monitoring and engagement at virtual wards.
- It enables personalised virtual care through assigned care pathways predicting risk scores through vitals and questionnaires and through specially tailored educational content for encouraging patient engagement during their treatment.
- Each of the assessment questionnaire is being assigned with a specific score based on which risk score is being generated based on the answers from patients.

Core Features/Advantages

- ★ Remote monitoring platform with integration of IoMT device of different brands like Nonin connect, Viatom and Ihealth tracking BP and Spo2.
- ★ Creating/modify dynamic pathways constituting questionnaire and tasks /frequency at which inputs to be taken
- ★ Defining score/weightage for a specific type of question in the questionnaire under a pathway based on which risk score will be calculate on front end.
- ★ Content management based on care pathway. Initially to start there will be Vimeo links only.
- ★ Graphical presentations of the vitals tracked in the pathway questionnaire over period of time.
- ★ Personalized micro learning content for guiding patients for any specific course of action.
- ★ Risk score to be generated based on the questionnaire inputs and share alerts with clinician/care team accordingly.
- ★ Connect with care team on Video call (Twilio integration) after their approval.
- ★ Assigning pathways to patients and removing once care professional is happy with the current readings.
- ★ Summary screen to view the assigned tasks, observation table, tasks list and history of tasks.

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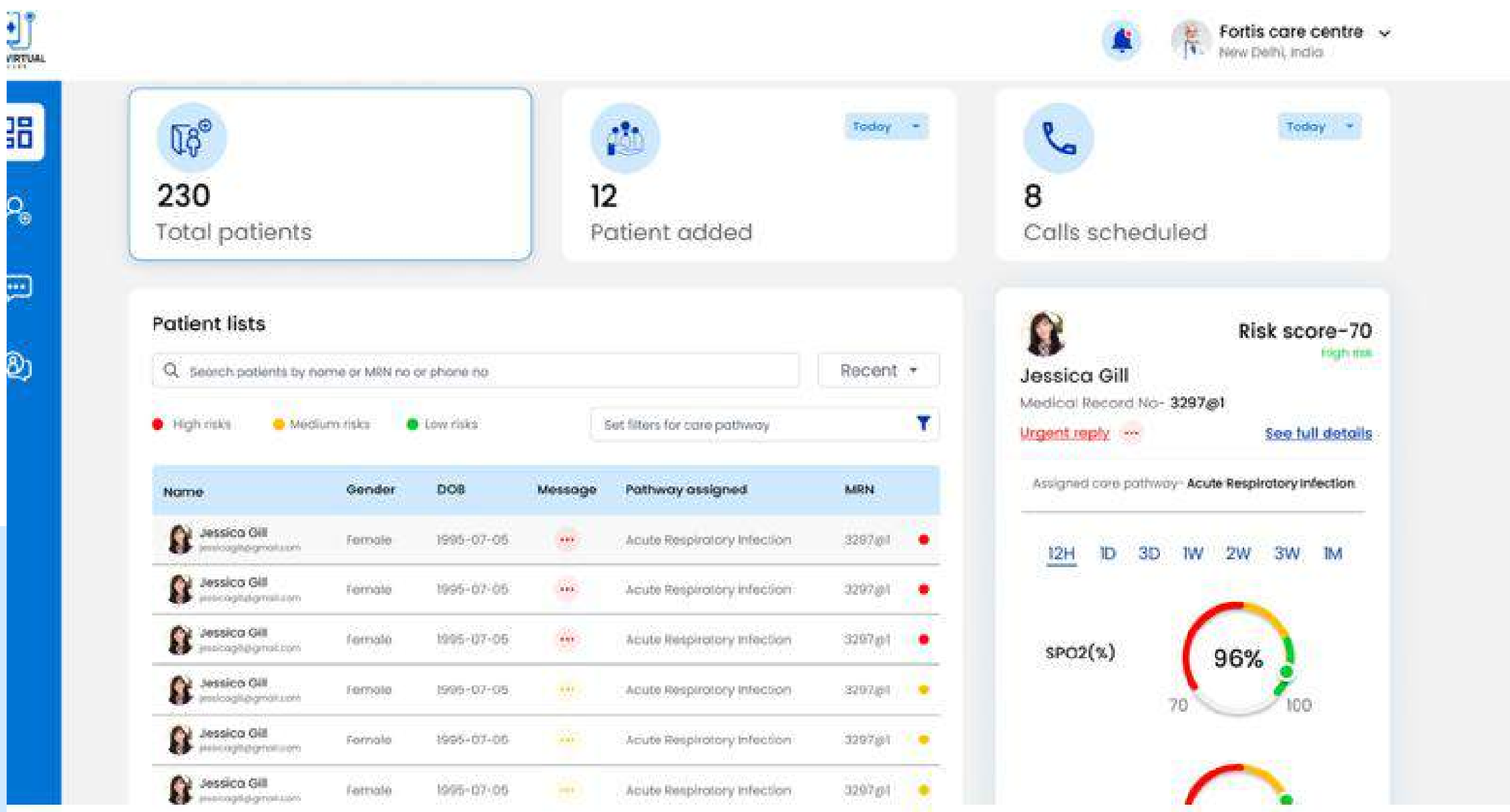
Screenshots