

med sync

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INTRODUCTION

MediSync is a multi-layered service that helps with hospital management by integrating various functionalities that help with room/patient management and provide real-time patient information to help nurses and doctors deliver optimal care.

MAIN OBJECTIVES



PATIENT
MONITORIZATION

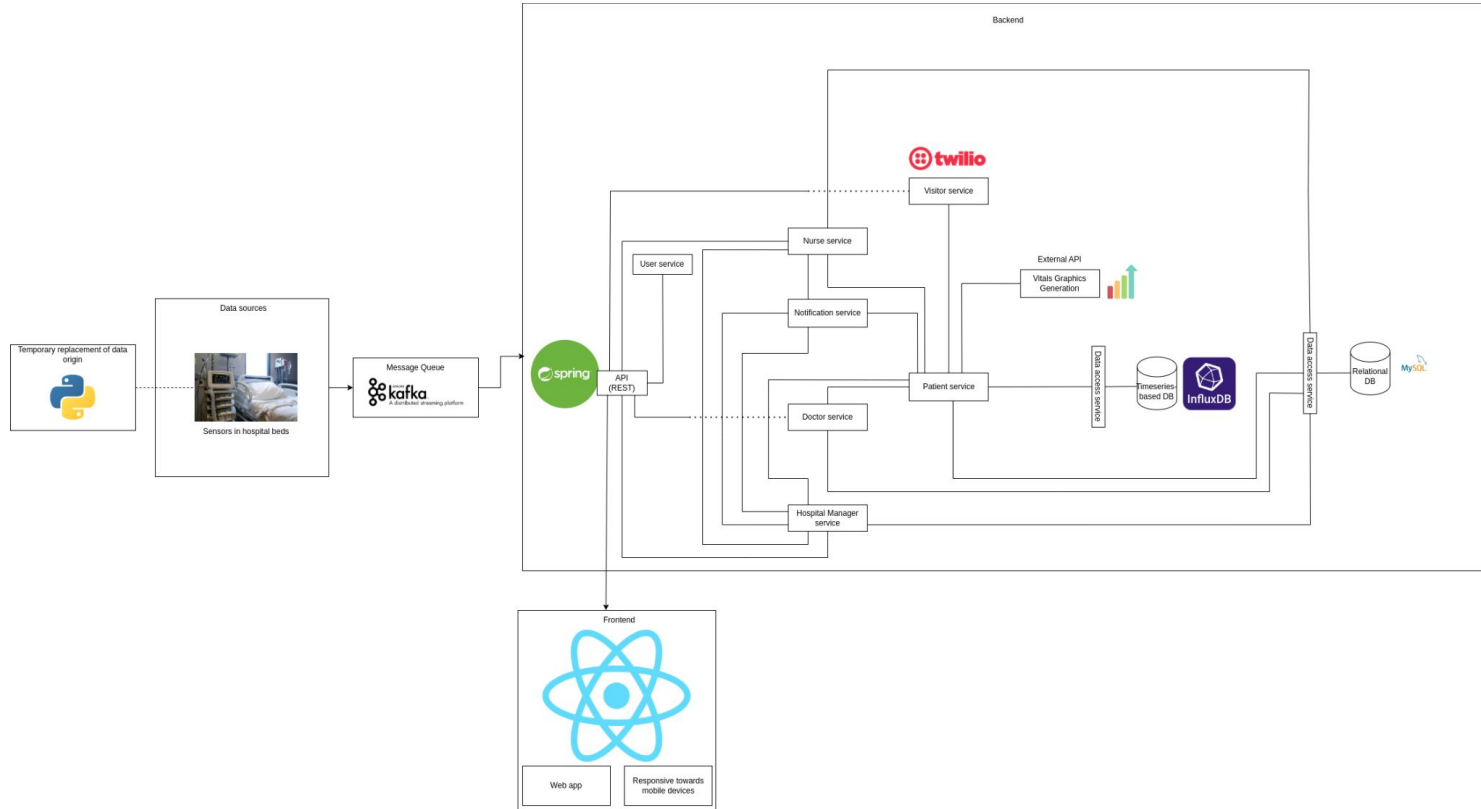


INCREASE STAFF
COORDINATION



IMPROVE HOSPITAL
ORGANIZATION

ARCHITECTURE



PERSONA – DOCTOR

- As Nadia, a doctor, I **want to** be able to access a patient's vital signs history since they arrived at their room **so that** I can have a bigger picture of how their health progressed since they arrived
- As Nadia, a doctor, I **want to** be able to add information to each patient about necessary medication that needs to be provided by the nurses at a specific time **so that** they can make sure that the treatment is made while the patients are in their rooms.





FOR STAFF:

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TO VISIT A PATIENT:

SUBMIT

PERSONA – HOSPITAL MANAGER



- As David, a hospital manager, **I want to** be able to easily discharge a patient from the hospital **so that** I can optimize bed/room usage and help patients quickly
- As David, a hospital manager, **I want to** be able to check a map of the rooms and the respective beds, to check bed/room availability and which rooms have patients with contagious diseases **so that** I can optimize patient placement and hospital management
- As David, a hospital manager, **I want to** be able to register a patient in the system and assign a bed/room and a doctor to the patient **so that** the hospital can be more organized.
- As David, a hospital manager, **I want to** assign a group of nurses to a specific room and a specific time frame by selecting the room, the time frame and selecting their names from a list of available nurses **so that** I can ensure adequate staffing and that each room has staff assigned to it.



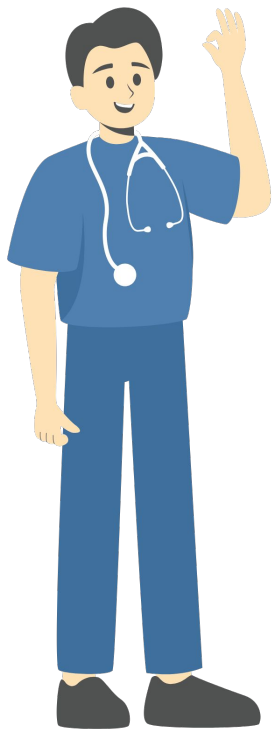
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TO VISIT A PATIENT:

SUBMIT



PERSONA – NURSE

- **As Peter, a nurse, I want to** receive an alert when a patient is discharged, **so that** I know which rooms/beds need to be prepared.
- **As Peter, a nurse, I want to** see what rooms I am assigned to **so that** I can be prepared and present in the correct locations to provide care for patients.
- **As Peter, a nurse, I want to** check my assignment schedule for the day **so that** I can know where I'll be needed next.
- **As Peter, a nurse, I want to** be able to monitor the vital signs and assigned medication of the patients in the rooms I'm assigned too in real-time **so that** I can ensure their health status is stable and respond promptly to any changes
- **As Peter, a nurse, I want to** be able to receive an alert if something unusual like a drastic change in heartbeat happens to my patient, **so that** I can help them as fast as possible.



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TO VISIT A PATIENT:

SUBMIT



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TO VISIT A PATIENT:

SUBMIT

PERSONA - VISITOR

- As Maria, a visitor, I **want to** be able to check where my relative's room is by receiving a secret code from the application sent by the reception **so that** when I enter the hospital to visit them, I know where to go.





FOR STAFF:

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TO VISIT A PATIENT:

PROJECT MANAGEMENT (BACKLOG)

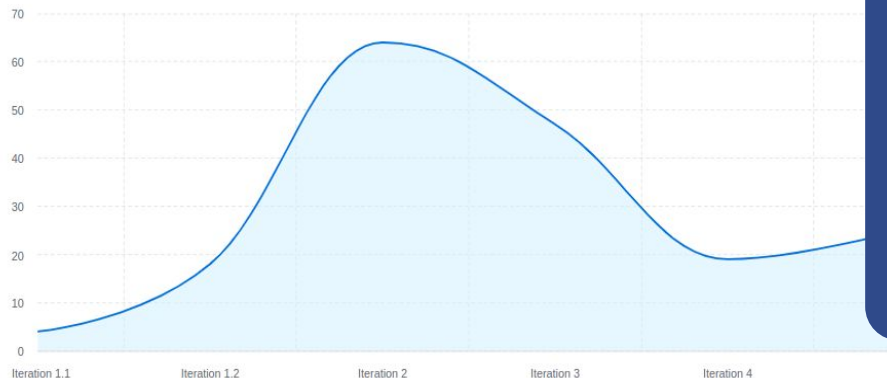
The screenshot displays a Jira project backlog for 'ies-24-25-group-project-103'. The interface includes a top navigation bar with tabs for 'Backlog', 'Team capacity', 'Current iteration', 'Roadmap', 'My items', and '+ New view'. A search bar is located below the tabs, labeled 'Filter by keyword or by field'.

The backlog is organized into four columns, each representing a different stage of the project lifecycle:

- User Stories (12 items, Estimate: 28):** This column contains user stories, each with a title, a description, and a status. The status is indicated by a colored circle (green for 'To Do', yellow for 'In Progress', and purple for 'Done') and a number. The stories are:
 - ies-24-25-group-project-103 #5: As David, a hospital manager, I want to be able to register a patient in the system and assign a bedroom and a doctor to the patient so that the hospital can be more organized. (P3, 2)
 - ies-24-25-group-project-103 #6: As David, a hospital manager, I want to be able to easily discharge a patient from the hospital so that I can optimize bedroom usage and help patients quickly. (P3, 2)
 - ies-24-25-group-project-103 #7: As David, a hospital manager, I want to assign a group of nurses to a specific room and a specific time frame by selecting the room, the time frame and selecting their names from a list of available nurses so that I can ensure adequate staffing and that each room has staff assigned to it. (P3, 2)
 - ies-24-25-group-project-103 #8: As Peter, a nurse, I want to be able to monitor the vital signs and assigned medication of the patients in the rooms I'm assigned too in real-time so that I can ensure their health status is stable and respond promptly to any changes. (P3, 1)
 - ies-24-25-group-project-103 #9: As Peter, a nurse, I want to check my. (P3, 1)
- Todo (4/15 items, Estimate: 4):** This column contains tasks that have not yet started. The tasks are:
 - ies-24-25-group-project-103 #346: Patient creation modal doesn't carry over patient admission date. (P0, 1, Iteration 5)
 - ies-24-25-group-project-103 #327: Fix CSS of Nurse's Calendar. (P2, 1, Iteration 5)
 - ies-24-25-group-project-103 #348: Influx retention rate needs to be limited. (P3, 1, Iteration 5)
 - ies-24-25-group-project-103 #294: Develop presentation. (P3, 1, Iteration 5)
- In Progress (5/5 items, Estimate: 4):** This column contains tasks that are currently being worked on. The tasks are:
 - ies-24-25-group-project-103 #328: Nurse should have a button do declare that a bed has been cleaned. (P1, 1, Iteration 5)
 - ies-24-25-group-project-103 #370: Insertion script must be updated to account for contagious patients. (P1, 1, Iteration 5)
 - ies-24-25-group-project-103 #334: Complete user stories. (P2, 1, Iteration 5)
 - ies-24-25-group-project-103 #296: Update Documentation (report). (P3, 1, Iteration 5)
 - ies-24-25-group-project-103 #371: Fix/insertion script contagious 370. (P3, 1, Iteration 5)
- Done (292 items, Estimate: 208):** This column contains tasks that have been completed. The tasks are:
 - ies-24-25-group-project-103 #337: Change Patient's boolean 'state' to a String 'state'. (P0, 1, Iteration 5)
 - ies-24-25-group-project-103 #356: Make vitals consistent in everypage. (P0, 1, Iteration 5)
 - ies-24-25-group-project-103 #358: Discharge date on Patient Details not updating. (P0, 1, Iteration 5)
 - ies-24-25-group-project-103 #343: Not removing a notification once the task has been completed. (P0, 1, Iteration 5)
 - ies-24-25-group-project-103 #329: Notification should be created when a patient's medication is due. (P0, 2, Iteration 5)
 - ies-24-25-group-project-103 #192: Create static interface for "Hospital Manager Notifications". (P0, 1, Iteration 3)
 - ies-24-25-group-project-103 #341: (P0, 1, Iteration 5)

Each task card includes a title, a description, a status, and a number. The status is indicated by a colored circle (green for 'To Do', yellow for 'In Progress', and purple for 'Done') and a number. The number indicates the priority of the task.

PROJECT MANAGEMENT (BACKLOG)



Sum of Estimate

Develop the static interface for 'Visitor Instructions' #182

Closed

#314

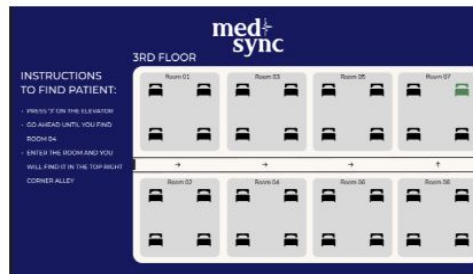
detuaveiro/ies-24-25-group-project-103 Private



alof2004 opened on Nov 7 · edited by alof2004

Edits ...

Develop the static interface for where visitors check the instructions on how to get to a room of a patient



Important: This issue was initially for Iteration 3 but got moved to the following iteration because the assignee had a few problems developing

Edit



Assignees

Ponte348

Labels

4. iteration enhancement website page

Projects

ies-24-25-group-project-103

Status Done

Priority

P2

Size

Choose an option

Estimate

2

Iteration

Iteration 4 • Nov 19 - Dec 2

FUTURE IMPROVEMENTS



Include monitorization

Kafka messages; user requests



Improve security

Passwords are very simple and endpoints are exposed



Patients and user specifications

Doctor specializations and automatic patient attribution



Room details

Create more rooms for specific diseases



Edit/remove schedules

Edit and remove schedules



Doctor schedules

Include schedules for doctors



med⚡sync

× THANK YOU FOR
YOUR ATTENTION

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Architect

