# ANALYTICS FOR HOSPITALS' HEALTH CARE-DATA
## PROJECT DEVELOPMENT PHASE

## Team Id:PNT2022TMID04542

**TEAM MEMBERS**


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## COGNOS EMBEDDED WEB APPLICATION

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## OUR TEAM

| | | |
|---|---|---|
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## OUR PROJECT DESCRIPTION

Recent Covid-19 Pandemic has raised alarms over one of the most overlooked areas to focus: Healthcare Management. While healthcare management has various use cases for using data science, patient length of stay is one critical parameter to observe and predict if one wants to improve the efficiency of the healthcare management in a hospital. This parameter helps hospitals to identify patients of high LOS-risk (patients who will stay longer) at the time of admission. Once identified, patients with high LOS risk can have their treatment plan optimized to minimize LOS and lower the chance of staff/visitor infection. Also, prior knowledge of LOS can aid in logistics such as room and bed allocation planning.

## TECHNICAL ARCHITECTURE


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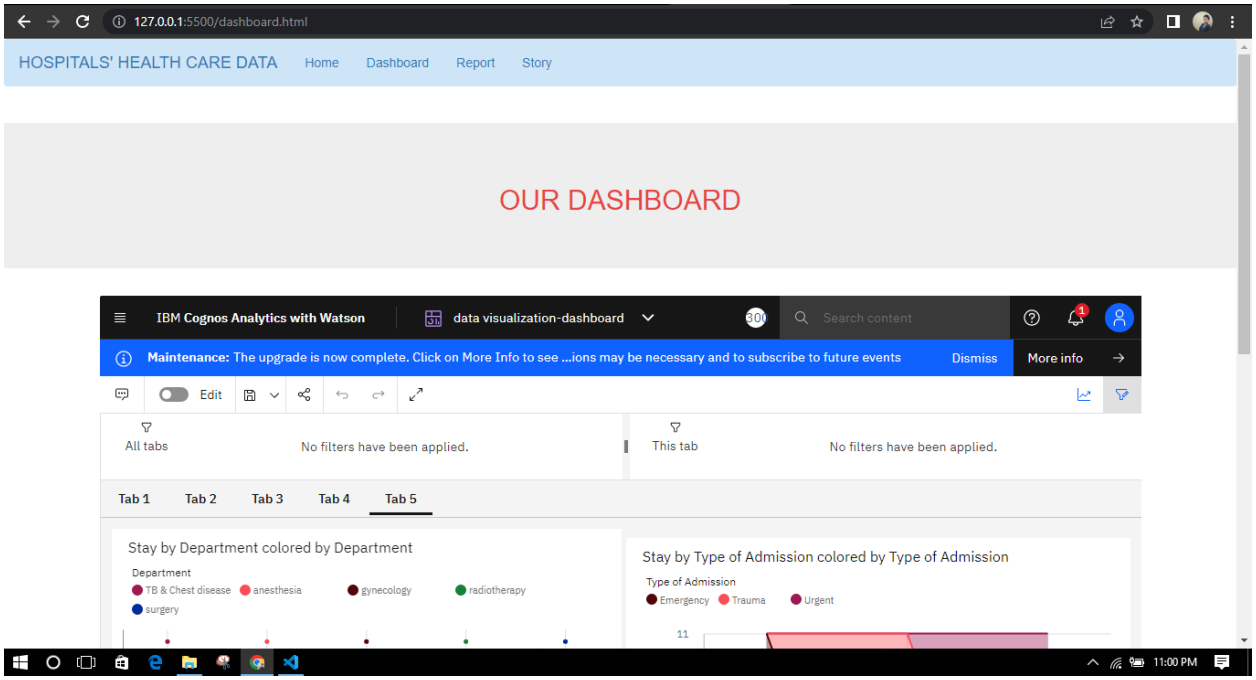
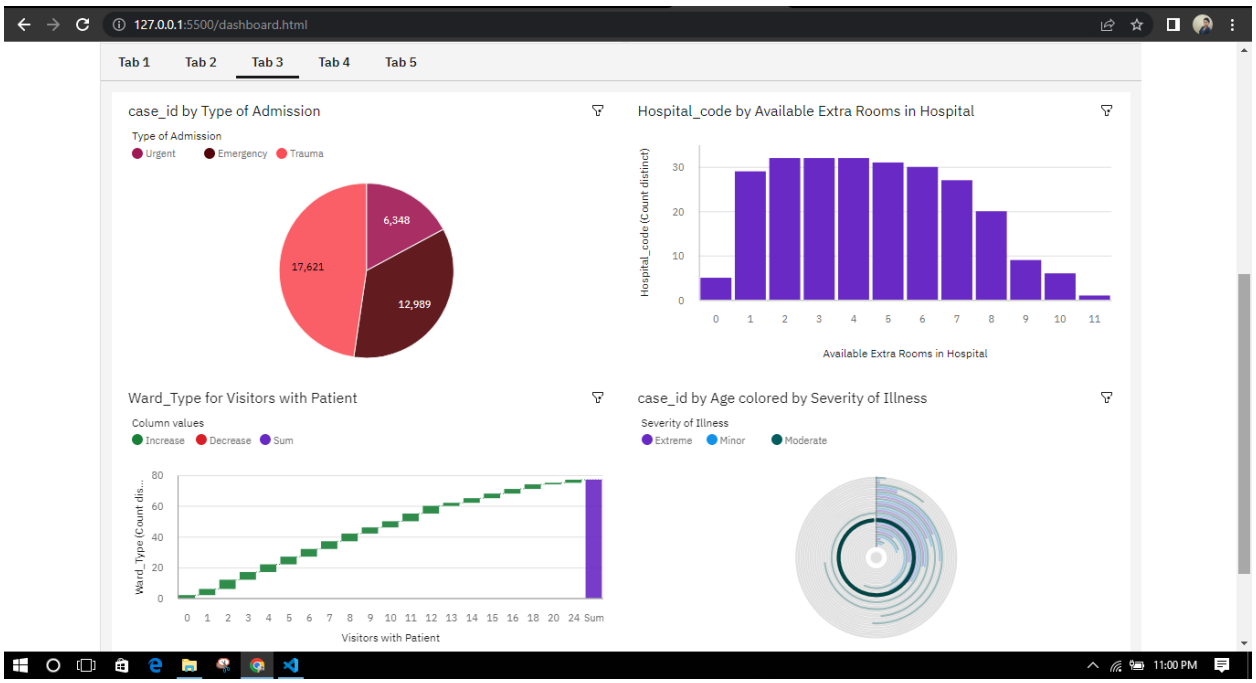
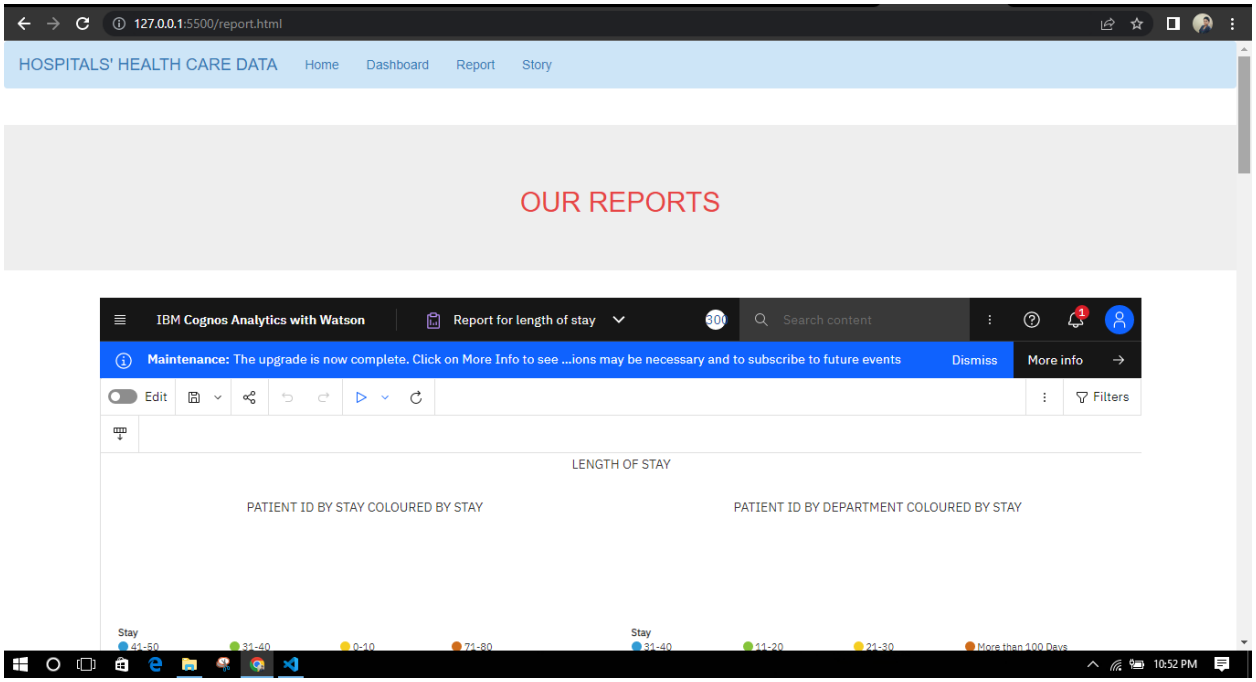

127.0.0.1:5500/dashboard.html
HOSPITALS' HEALTH CARE DATA
Home
Dashboard
Report
Story
OUR DASHBOARD
IBM Cognos Analytics with Watson
data visualization-dashboard
Search content
Maintenance: The upgrade is now complete. Click on More Info to see ...ions may be necessary and to subscribe to future events
Dismiss
More info
Edit
All tabs
No filters have been applied.
This tab
No filters have been applied.
Tab 1
Tab 2
Tab 3
Tab 4
Tab 5
Stay by Department colored by Department
Department
TB & Chest disease
anesthesia
gynecology
radiotherapy
surgery
Stay by Type of Admission colored by Type of Admission
Type of Admission
Emergency
Trauma
Urgent
11
11:00 PM


127.0.0.1:5500/dashboard.html
Tab 1
Tab 2
Tab 3
Tab 4
Tab 5
case_id by Type of Admission
Type of Admission
Urgent
Emergency
Trauma
6,348
17,621
12,989
Hospital_code by Available Extra Rooms in Hospital
Hospital_code (Count distinct)
Available Extra Rooms in Hospital
Ward_Type for Visitors with Patient
Column values
Increase
Decrease
Sum
Visitors with Patient
case_id by Age colored by Severity of Illness
Severity of Illness
Extreme
Minor
Moderate
11:00 PM


127.0.0.1:5500/report.html
HOSPITALS' HEALTH CARE DATA
Home
Dashboard
Report
Story
OUR REPORTS
IBM Cognos Analytics with Watson
Report for length of stay
Search content
Maintenance: The upgrade is now complete. Click on More Info to see ...ions may be necessary and to subscribe to future events
Dismiss
More info
Edit
Filters
LENGTH OF STAY
PATIENT ID BY STAY COLOURED BY STAY
PATIENT ID BY DEPARTMENT COLOURED BY STAY
Stay
41-50
31-40
0-10
71-80
Stay
31-40
11-20
21-30
More than 100 Days
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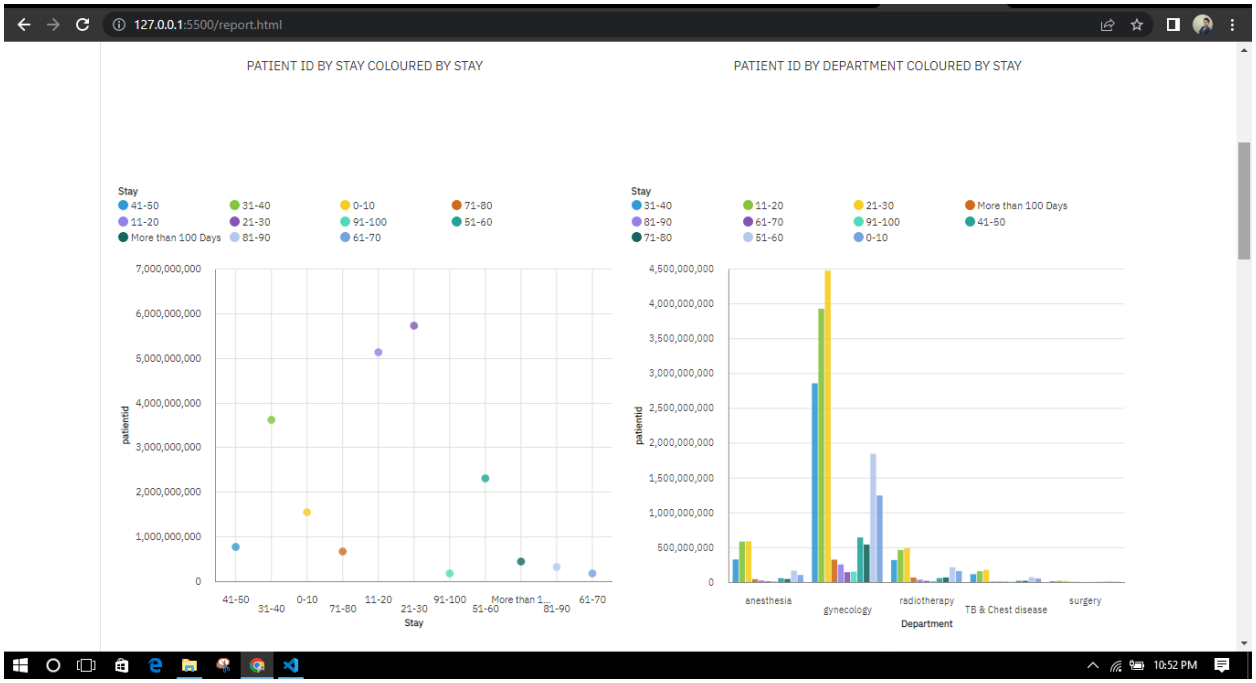
127.0.0.1:5500/report.html
PATIENT ID BY STAY COLOURED BY STAY
PATIENT ID BY DEPARTMENT COLOURED BY STAY
Stay
41-50
31-40
0-10
71-80
11-20
21-30
91-100
51-60
More than 100 Days
81-90
61-70
Stay
31-40
11-20
21-30
More than 100 Days
81-90
61-70
91-100
41-50
71-80
51-60
0-10
patientid
7,000,000,000
6,000,000,000
5,000,000,000
4,000,000,000
3,000,000,000
2,000,000,000
1,000,000,000
0
41-50
31-40
0-10
71-80
11-20
21-30
91-100
51-60
More than 1...
81-90
61-70
Stay
patientid
4,500,000,000
4,000,000,000
3,500,000,000
3,000,000,000
2,500,000,000
2,000,000,000
1,500,000,000
1,000,000,000
500,000,000
0
anesthesia
gynecology
radiotherapy
TB & Chest disease
surgery
Department
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HOSPITALS' HEALTH CARE DATA Home Dashboard Report Story

# OUR STORY

IBM Cognos Analytics with Watson | story for length of stay | Search content

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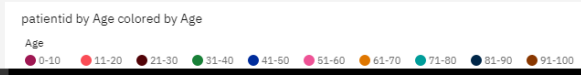
Edit

Highest number of patients are in Age group 41-50
Lowest number of patients are in Age group 81-90

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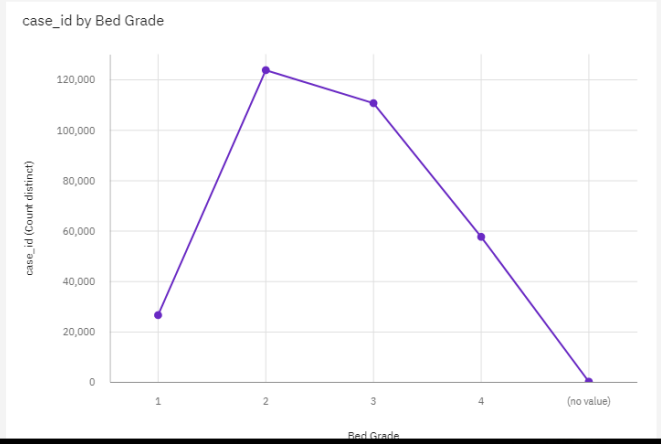
Edit

Mostly used Bed Grade is 2
Least used Bed Grade is 1

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