# PROJECT REPORT

## 1. INTRODUCTION

## 1.1 Project Overview

- Data analytics in clinical settings attempts to reduce patient wait times via improved scheduling and staffing, give patients more options.
- when scheduling appointments and receiving treatment, and reduce readmission rates by using population health data to predict which patients are at greatest risk.

## 1.2 purpose

This is the purpose of healthcare data analysis: using data-driven findings to predict and solve a problem before it is too late, but also assess methods and treatments faster, keep better track of inventory, involve patients more in their own health, and empower them with the tools to do so.

## 2. LITERATURE SURVEY

## 2.1 Existing problem

#### No remote access

- Healthcare is associated with in-person consultations. This problem obligates the patients to run to the nearest healthcare center for treatment.
- The COVID outbreak and lockdowns made it even worse.
- The contagion effect of the virus restrained people within the four walls of their homes.

 So, what do they do if they need to see a doctor and have an emergency? The need for remote access or virtual consultations is the need of the hour, which needs to be taken care of to stay one step ahead in the technology adoption race.

## Insufficiency and errors in data sharing

- In an age where medical science has made noteworthy advancements, inefficiencies and healthcare errors are still persistent because of the healthcare industry's traditional technology for management.
- This is not just a hurdle in medical science; it causes regression because of the waste it generates.
- Not only do patients pay the price in the form of inconvenience and health, but we also see a rise in administrative expenses and litigation owing to these inefficiencies and errors.
- An incomplete or inefficient exchange of this data can be dangerous in patients needing urgent or complicated treatment

## Absence of supply management system

- Traditional supply chain management is often wasteful and inefficient.
- It leads to money wasted on lost and damaged inventory, improper delivery of equipment or medication, and the damage caused to patients, all of which amount to massive financial losses for healthcare services.
- Supply shortages, misplaced inventory, and less-than-stellar preventative measures regarding shrinkage, all play into the reality that hospitals are epicenters of wasteful operations without a proper supply management system.

## Data security

- Another challenge mentioned by multiple respondents was data security.
   Between 2009 and 2020, 70% of the U.S. population was affected by healthcare data breaches—a trend that isn't likely to go away.
- Cigarillo believes the healthcare industry needs government funding to strengthen their IT resources.
- But there are also a number of best practices healthcare organizations can implement now that will help them more effectively secure valuable healthcare data, such as educating healthcare staff, restricting access to data and applications, implementing data usage controls, and more.

## Lack of real time situation management

• True crises used to be few and far between, but the past year has

- presented a perpetual state of crisis—a scenario that has posed an incredible challenge for healthcare organizations.
- According to Terry Zysk, CEO of LiveProcess, public health emergencies like COVID-19 require situation management: using real-time data analysis to understand how an event is unfolding, and reacting to it accordingly.
- It's the only way that critical healthcare resources can be delivered to the right people at the right time during emergencies and natural disasters.
- A major problem with hospital management systems is they don't provide access to the kind of real-time metrics that could improve response times and outcomes—for example, how many beds are available at a facility at any given time or the location of critical supplies.

#### 2.2 References

TITLE: Healthcare

AUTHOR: Dr.leena V Gangloi

TITLE: Information System Healthcare Sectors

**AUTHOR:** Wager

TITLE: Data Analytics in Healthcare

AUTHOR: J. Archenaa

TITLE: Historical Review Of Health Policy Making

**AUTHOR:** Ravi Duggal

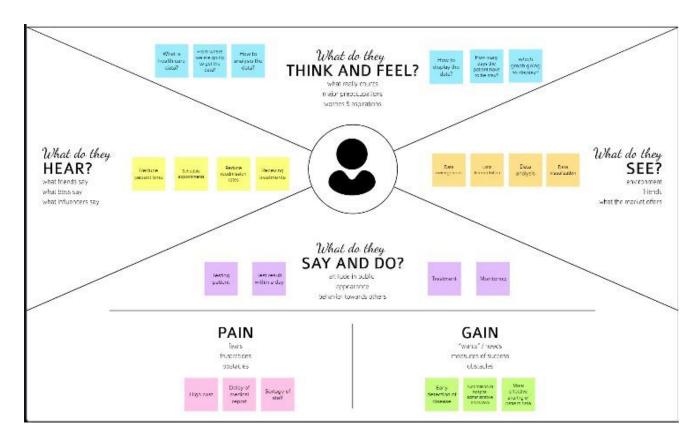
#### 2.3 Problem Statement Definition

- Collection dataset.
- Upload the dataset into cognos.
- > Open the properties->data module.
- If null value is present in character field use mode method.
- > If the null value is present in continuous field use average or medium.
- Display the data in respective charts.
- Create conclusion using summary.

## 3. IDEATION & PROPOSED SOLUTION

## 3.1 Empathy Map Canvas

- An empathy map is a tool which aids in understanding another person's perspective.
- Empathy maps have up until now not been used in a medical education setting.
- Objective: To assess the attitudes towards, applicability and usefulness of empathy maps as part of medical student's communication skills training.



# 3.2 Ideation & Brainstorming

To try to solve a problem or come up with new ideas by having a discussion that includes all members of a group: to discuss a problem or issue and suggest solutions and ideas.



## 3.3 Proposed Solution

- Identify key hurdles to healthcare sustainability in india and propose a set of solutions that mutually benefit and the pharmaceutical industry Pragmatic literature review of 43 articles published by regional and international organizations.
- > UNIVERSAL HEALTHCARE COVERAGE Attainment of UHC comes with the hurdleof having to provide care to a higher number of patients.
- > EVOLVING DEMOGRAPHICS Population aging has resulted in a growing number of elderly dependents at higher risk of disease and complications.
- > RISING COST OF R&D Today, the cost of developing a medicine can exceed USD 2.6 B compared to USD 179 M in the 1970s.
- > WIN-WIN SOLUTIONS ARE NEEDED TO ATTAIN SUSTAINABILITY Mutually beneficial solutions that allow for productive movement towards sustainable value-based healthcare systems should be explored.
- > VALUE ADDED SERVICES The pharmaceutical industry should move 'beyond thepill' and collaborate with to design and offer programs aimed at improving healthcare sustainability (e.g., training, administrative support, etc.
- MULTI-STAKEHOLDER COALITIONS Multi-stakeholder coalitions can serve as a platform to discuss healthcare challenges and co-create healthcare solutions to achieve defined common goals..
- > INTEGRATED HEALTHCARE MODEL Investment in integrated healthcare systems that focus on prevention and early diagnosis is key to move towards sustainability in the LA region.

S.No.	Parameter	Description
1	Problem Statement (Problem to be solved)	<ol> <li>Using cognos display the data graphical formate</li> <li>Clean the data using cognos</li> <li>Display the data in days like 1-10 or 11-20 etc.,</li> </ol>
2.	Idea / Solution description	If numeric value is null perform average or mid value or repeated value     If String value is null perform repeated value
3. 1	Novelty / Uniqueness	Getting real time data to find out the high accuracy.It help to find out the result eassy
4.	Social Impact / Customer Satisfaction	Depend upon the Analytic patient is get teatment .Easily find out the patient health level.
5.	Business Model (Revenue Model)	In low cost we Find out the result and eassly get the result
6.	Scalability of the Solution	We Can use this solution for any type of age peoples

#### 3.4 Problem Solution fit

- The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem
- In an age where medical science has made noteworthy advancements, inefficiencies and healthcare errors are still persistent because of the healthcare industry's traditional technology for management.
- One specific area of concern is the exchange of patient data in case of patient transfer from one department or hospital to another. Patient record sharing, when done the traditional way, is time-consuming and inefficient and exposes patient information to a breach.
- ➤ To deliver a holistic and satisfactory patient experience, different parties involved in healthcare doctors, scheme providers, insurance providers, doctors, and patients should be able to exchange information among themselves securely.



1

Understanding the problem

Getting the healthcare data set of the patient.

Viewing the data set.

2

Cleaning the data
Cleaning the given data using

Depends upon the field. Save it for furthur use. 3 Visualisation

Perform various calculation on differnt field.

Display the field in the graphs.

4 Dashboard

Display the graph in the dashboard.

# 4. REQUIREMENT ANALYSIS

## 4.1 Functional requirement

S.NO	<b>Functional Requirements</b>	Story		
1 Data Gathering		Gathering data		
	50 50	From kaagle		
2	DB	Upload data in DB2		
3	Connect DB with Cognos	Cleaning Data		
4 Data Exploration Explore the data		Explore the data in graphical format		
5	Dashboard	Create Dashboard interactively		
6	Report	Create report for variuous field		
7	Story	Create story and animation		

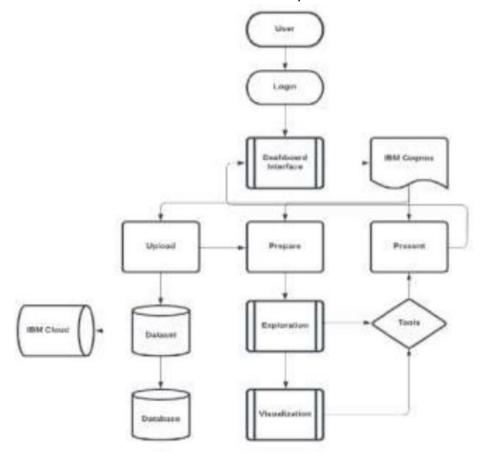
## 4.2 Non-Functional requirements

Working with open source plateform	GitHub
Prepare Step by Step process Doc	Project Documents

# 5. PROJECT DESIGN

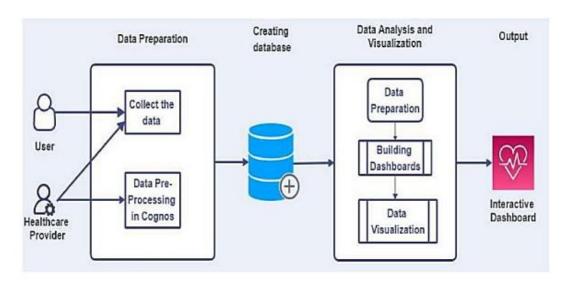
## 5.1 Data Flow Diagrams

A data flow diagram shows the way information flows through a process or system. It includes data inputs and outputs, data stores, and the various sub processes the data moves through. DFDs are built using standardized symbols and notation to describe various entities and their relationships.



## 5.2 Solution & Technical Architecture

- Solution Architects are most similar to project managers, ensuring that all parties, including stakeholders, are on the same page and moving in the right direction at all stages.
- Technical architects manage all activities leading to the successful implementation of a new application.



#### Components & Technology

S.NO	Components	Description	Technology
1	Dataset	Gathering dataset from Internet	Kaagle API
2	Data PrePocessing	Cleaning the gathered data	Cognos
3	Visualization	Visualize the data	Cognos Exploration
4	Dashboard	Create intractive Dashboard	Cognos Dashboard
5	Reports	Create intractive Report	Cognos Report
6	Story	Creating various Story	Cognos Story
7	Web Appliction	Creating embedded web application	Cognos ,Bootstrap,HTML
8	Database	Uploading data in DB2	IBM DB2

#### **Application Characteristics**

Cognos	It is a Plateform used to create ,display data in graphical format
DB2 It is a database used to store the data (M)	

## 5.3 User Stories

S.NO	Funnctional Requirements	User Story Number	Tasks	Acceptance Criteria	Priority	Release
1	Data Gathering	1	Gathering Data	Using API	High	Sprint1
2	Pre- processing	2	Cleaning the data in proper format	Cleaned Data	High	Sprint ∃
3	Data Exploration	3	Explore the data	Display data in graph	High	Sprint1
4	Dashboard	4	Creating various chart	Intractive Dashboard	High	Sprint 2
5	Reports	5	Creating report for various field	Intractive Report	High	Sprint 3
6	Story	6	Creating Animation Using picture	Various animation and slides	High	Sprint 4
7	Web Application	7	Cognos Embeded Web application	Intractive Web Application	High	Sprint 4

# 6. PROJECT PLANNING & SCHEDULING

# 6.1 Sprint Planning & Estimation

#### Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	S∵rint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	8	7 Days	22 Oct 2022	28Oct 2022	28 OCT 2022	28 OCT 2022
Sprint-2	8	8 Days	29 Oct 2022	05 Nov 2022	0℃ NO √ 2522	05 NOV 2022
Sprint-3	5	3 Days	06 Nov 2022	08 Nov 2022	03 NO√ 2022	08 NOV 2022
Sprint-4	5	4 Days	09 Nov 2022	12 Nov 2022	12 NOV 2022	12 NOV 2022

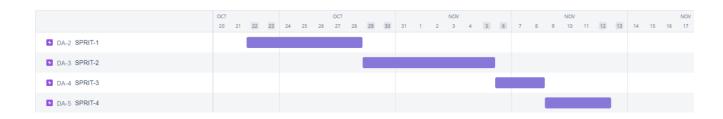
## 6.2 Sprint Delivery Schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Stury Points	Priority	Team Members
Sprint-1	Analyze	USN-1	As an admin, I will analyze the given datase. (Data preprocessing)	8	High	USMAN MATHEEN H
Sprint-2	Predict	USN-2	As an admin, I will p.edict the length of stay (Prediction)	8	High	MITHULADHITHYA S S
Sprint-3	Visualization	USN-3	As a user, I can select the visualization type (Creating visualization)	5	Medium	KARTHIKEYAN P
Sprint-4	Dashboard	USN-1	As a user, I can upload the datasets to the dashboard and view visualizations (Creating dashboard)	5	Medium	VISHWA P

## 6.3 Reports from JIRA

#### Road Map:

A roadmap is a strategic plan that defines a goal or desired outcome and includes the major steps or milestones needed to reach it. It also serves as a communication tool, a high-level document that helps articulate strategic thinking—the why—behind both the goal and the plan for getting there.

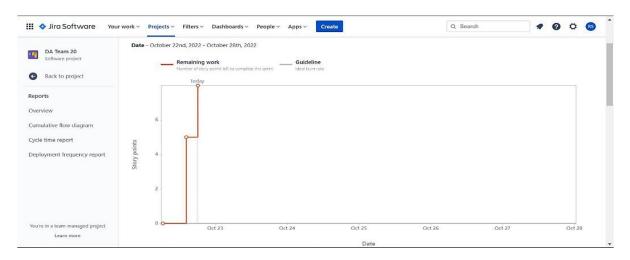


#### Kanban Board:

A kanban board is an agile project management tool designed to help visualize work, limit work-in-progress, and maximize efficiency (or flow). It can help both

agile and DevOps teams establish order in their daily work.

#### **BURNDOWN CHART**



#### **VELOCITY**

Average velocity for sprint - 1:

$$A\sqrt{=3/7} = 1.14$$

Average velocity for sprint - 2:

$$AV = 8/3 = 1$$

Average velocity for sprint - 3:

$$AV = 5/3 = 1.67$$

Average velocity for sprint - 4:

$$AV = 5/4 = 1.25$$

# 7. CODING & SOLUTIONING

#### 7.1 Feature 1

- Fetched the data from DB2 database.
- Creating responsive dashboard.
- Inserting filter for each chart
- Creating report
- Created reports using multiple graphs and charts

#### 7.2 Feature 2

- Creating stories and performed.
- Perform animation render image from website.
- Included graphs and charts.
- Creating web application using bootstrap.
- Embedded the cognos with web application.

#### 7.3 Database Schema

- case\_id
- Hospital\_code
- Hospital\_type\_code
- City\_Code\_Hospital
- Hospital\_region\_code
- Available Extra Rooms in Hospital
- Department
- Ward\_Type
- Ward\_Facility\_Code
- Bed Grade
- Patient id
- City\_Code\_Patient
- Type of Admission
- Severity of Illness
- Visitors with Patient
- Age
- Admission\_Deposit
- Stay

## 8. TESTING

#### 8.1 Test Cases

- Verify user is able to see Home page.
- Verify user is able to see Dashboard page.

- > Verify user is able to navigate to Report page.
- Verify user is able to navigate to story page.
- Verify filters are working

## 8.2 User Acceptance Testing

#### 1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the [ProductName] project at the time of the release to User Acceptance Testing (UAT).

#### 2. Defect Analysis

This report shows the number of resolved or closed bugs at each severity level, and how they were resolved

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	8	5	0	3	16
Duplicate	1	0	5	0	6
External	0	3	2	1	6
Fixed	13	4	3	16	36
Not Reproduced	0	1	0	0	1
Skipped	0	1	0	1	2
Won't Fix	1	4	2	1	8
Totals	23	18	12	22	75

#### 3. Test Case Analysis

This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases	Not Tested	Fall	Pass
Print Engine	9	0	0	9
Client Application	43	0	0	43
Security	1	0	0	1
Outsource Shipping	1	0	0	1

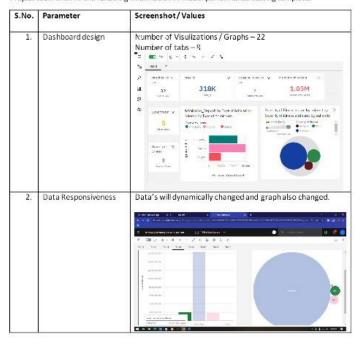
Exception Reporting	9	0	0	9
Final Report Output	10	0	0	10
Version Control	1	0	0	1

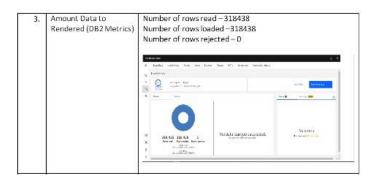
# 9. RESULTS

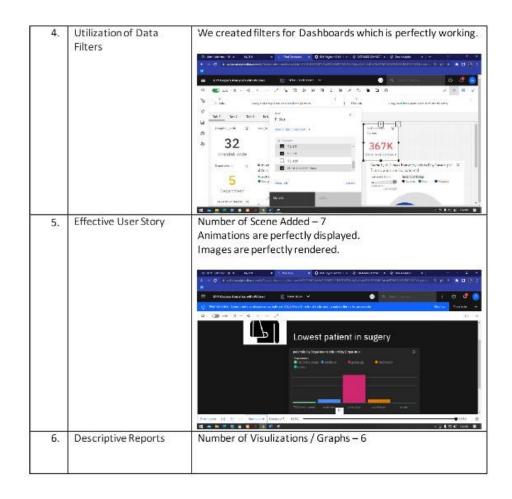
## 9.1 Performance Metrics

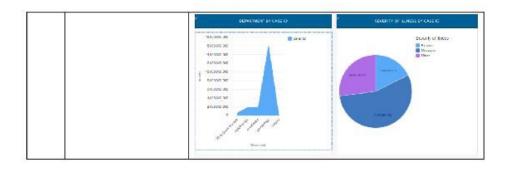
#### Model Performance Testing:

Project team shall fill the following information in model performance testing template.









## 10. ADVANTAGES

- Improved research efforts
- > Improved health outcomes
- Obtain operational insights
- Improved staffing
- Informed strategic planning
- > Higher-Quality Care

## **DISADVANTAGES**

- > Privacy
- Replacing Doctors
- > Frustration with poor implementation.
- Cybersecurity risks
- Healthcare Regulatory Changes.
- Healthcare Staffing Shortages

## 11. CONCLUSION

- It also means describing how health plans, health care organizations, and clinicians should be accountable to patients and society and conversely.
- How individuals can take appropriate responsibility for their own health.
- Data analytics is the science of analyzing raw datasets in order to derive a conclusion regarding the information they hold.
- It enables us to discover patterns in the raw data and draw valuable information from them.

## 12. FUTURE SCOPE

- Improved Decision Making: Data Analytics eliminates guesswork and manualtasks. Be it choosing the right content, planning marketing campaigns, or developing products.
- Organizations can use the insights they gain from data analytics to make informed decisions. Thus, leading to better outcomes and customer satisfaction
- Data analytics to achieve business goals of pharmaceutical companies, payers,

insurance companies, physicians, hospitals, medical equipment companies, sales reps, and other stakeholders in the healthcare business, need for this have only increased after the Affordable Act came into being.

## 13. APPENDIX

#### Source Code

#### **Dashborad**

#### html

```
<!
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m
1>
     <html lang="en">
     <head>
     <title>Data Analytics</title>
       <meta charset="utf-8">
      <meta name="viewport" content="width=device-width, initial-scale=1">
       <link rel="stylesheet"</pre>
     href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
      <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
       <script
     src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
     </head>
     <body>
     <nav class="navbar navbar-inverse ">
       <div class="container-fluid">
         <div class="navbar-header">
          <a class="navbar-brand" href="#">Analytics for Hospitals' Health-Care Data</a>
        </div>
         <a href="index.html">Home</a>
          <a href="#">Dashboard</a>
          <a href="report.html">Report</a>
          <a href="story.html">Story</a>
```

```
</div>
</div>
</div>
</div>
</div

</frame

src="https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&amp;pathRef=.my_folders%2F
Sprint%2B2%2FFinal%2BDashboard&amp;closeWindowOnLastView=true&amp;ui_appbar=false&amp;ui_n
avbar=false&amp;shareMode=embedded&amp;action=view&amp;mode=dashboard&amp;subView=model000
00184774a03ac_00000002"
    width="1500" height="1000" frameborder="0" gesture="media" allow="encrypted-media"
allowfullscreen=""></iframe>
</div>
</body>
</body>
</body>
</body>
</body>
</body>
```

#### Index html

<!DOCTYPE

```
<html lang="en">
 <title>Data Analytics</title>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></scrip</pre>
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></scr
</head>
<body>
<nav class="navbar navbar-inverse">
  <div class="container-fluid">
   <div class="navbar-header">
     <a class="navbar-brand" href="#">Analytics for Hospitals' Health-Care
Data</a>
    </div>
   <a href="#">Home</a>
     <a href="dashboard.html">Dashboard</a>
     <a href="report.html">Report</a>
```

```
<a href="story.html">Story</a>
  </div>
</nav>
<div class="jumbotron">
<center> <h4><i><b>Team ID : PNT2022TMID37553 </b></i></h4></center>
</div>
Team Leader
    LAKSHMANAN A
   Team member
    KIRUBHAHARAN J
   Team member
    IDHAYADASAN S
   Team member
    KARTHICKEYAN K
   </body>
</html>
```

# Report html

```
<title>Data Analytics</title>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1">
 <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
 <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
 <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
<body>
<nav class="navbar navbar-inverse ">
  <div class="container-fluid">
    <div class="navbar-header">
     <a class="navbar-brand" href="#">Analytics for Hospitals' Health-Care Data</a>
   </div>
   <a href="index.html">Home</a>
     <a href="dashboard.html">Dashboard</a>
     <a href="#">Report</a>
     <a href="story.html">Story</a>
   </div>
</nav>
<div class="container">
 <iframe
src="https://us1.ca.analytics.ibm.com/bi/?pathRef=.my folders%2FReport%2FFinal%2BRepor
t&closeWindowOnLastView=true&ui appbar=false&ui navbar=false&shareMode
=embedded&action=edit"
   width="1500" height="1000" frameborder="0" gesture="media" allow="encrypted-media"
allowfullscreen=""></iframe>
</br>
</div>
</body>
</html>
```

## Story html

```
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1>
                         <html lang="en">
                           <head>
                                 <title>Data Analytics</title>
                                <meta charset="utf-8">
                                 <meta name="viewport" content="width=device-width, initial-scale=1">
                                <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
                                <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
                                 <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
                           </head>
                          <body>
                          <nav class="navbar navbar-inverse ">
                                <div class="container-fluid">
                                       <div class="navbar-header">
                                              <a class="navbar-brand" href="#">Analytics for Hospitals' Health-Care Data</a>
                                       </div>
                                       <a href="index.html">Home</a>
                                              <a href="dashboard.html">Dashboard</a>
                                              <a href="report.html">Report</a>
                                              <a href="#">Story</a>
                                        </div>
                           </nav>
                         <div class="container">
                                <iframe
                         \verb|src="https://usl.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_folders%2Fstory&2FNew%2Bstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstory&cloors%2Fstor
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## GitHub link

https://github.com/IBM-EPBL/IBM-Project-8723-1658927870

Project Demo Link

https://drive.google.com/file/d/1tCiC-RWjF8fBlliGPVP9Byn3gc1F5gED/view?usp=share\_link