IBM COGNOS EMBEDED WITH WEB APPLICATION

HOME PAGE :

Index.html

```
<!DOCTYPE
html>
            <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="about.html">Analytics for Hospitals' Health-Care
            Data</a>
                </div>
                <ul class="nav navbar-nav">
                  <li class="active"><a href="#">Home</a></li>

                  <li><a href="dashboard.html">Dashboard</a></li>
                  <li><a href="report.html">Report</a></li>
                  <li><a href="story.html">Story</a></li>
                </ul>
              </div>
            </nav>

            <div class="jumbotron">
             <center> <h4><i><b>Team ID : PNT2022TMID18479 </b></i></h4></center>

            </div>
            <table class="table table-bordered">

                <tbody>
                  <tr>
                    <td>Team Leader</td>
                    <td>Apoorva GK</td>

                  </tr>
                  <tr>
```

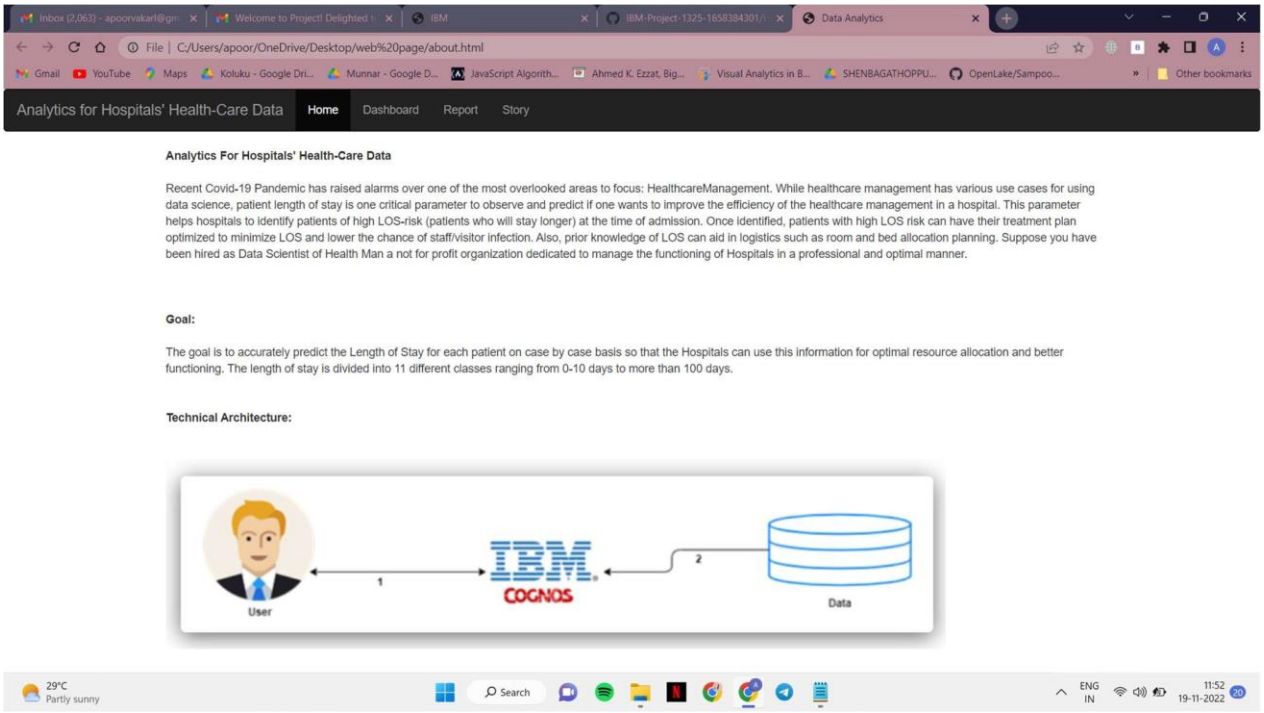
```
        <td>Team member</td>
        <td>Bharathi Leela A</td>

      </tr>
      <tr>
        <td>Team member</td>
        <td>Bhoomika A</td>

      </tr>
         <tr>
        <td>Team member</td>
        <td>Deepa Rani S</td>

    </tr>

    </tbody>
  </table>
</body>
</html>
```

About Page :

```
<!DOCTYPE
html>
            <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>
                <ul class="nav navbar-nav">
                  <li class="active"><a href="index.html">Home</a></li>
                  <li><a href="dashboard.html">Dashboard</a></li>
                  <li><a href="report.html">Report</a></li>
                  <li><a href="story.html">Story</a></li>
                </ul>
              </div>
            </nav>


            <div class="container">
            <b>Analytics For Hospitals' Health-Care Data</b>
            <br><br>

            Recent Covid-19 Pandemic has raised alarms over one of the most overlooked areas to
            focus: HealthcareManagement.
            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.
            Suppose you have been hired as Data Scientist of Health Man a not for profit organization
            dedicated to manage the functioning of Hospitals in a professional and optimal manner.
            <br><br>
```

```
<br><br>
<b>Goal:</b>
<br><br>
The goal is to accurately predict the Length of Stay for each patient on case by case
basis so that the Hospitals can use this information for optimal resource allocation and
better functioning. The length of stay is divided into 11 different classes ranging from
0-10 days to more than 100 days.


<br>

<br><br>

<b>Technical Architecture:</b>
<br>
<br><br>
<img src="Technical_architecture.png">
</div>
</body>
</html>
```

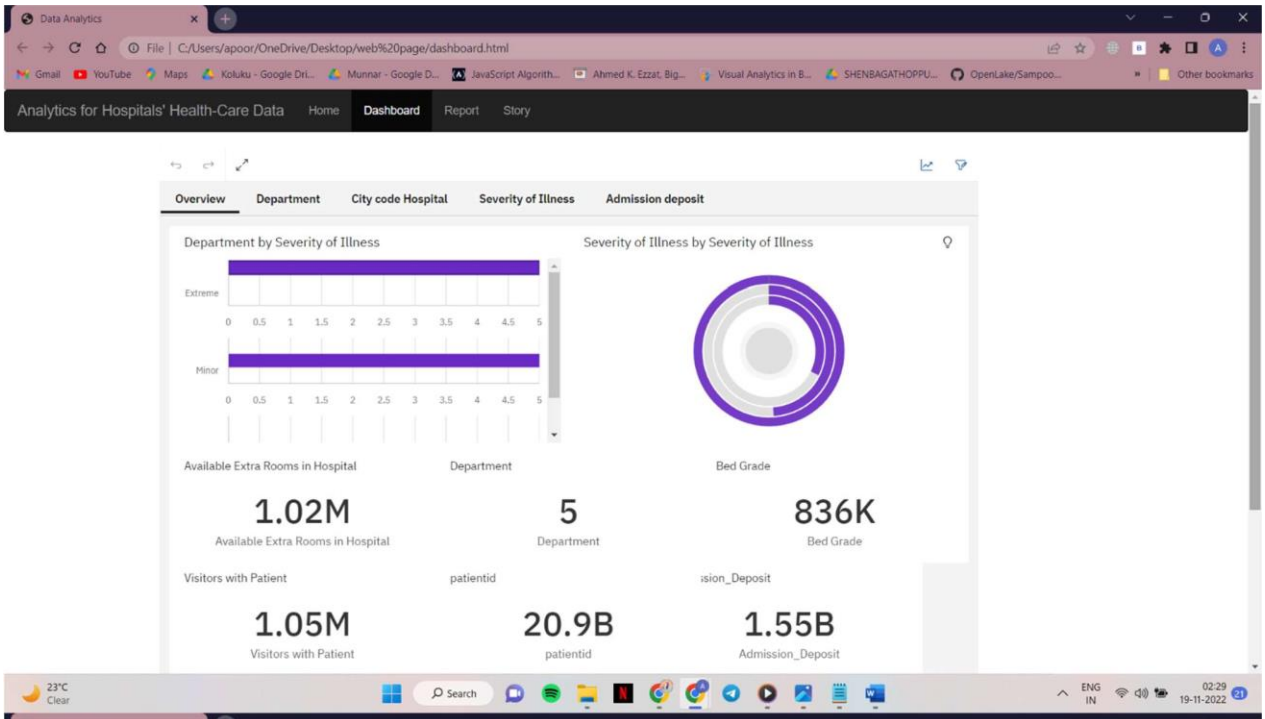
OUTPUT :

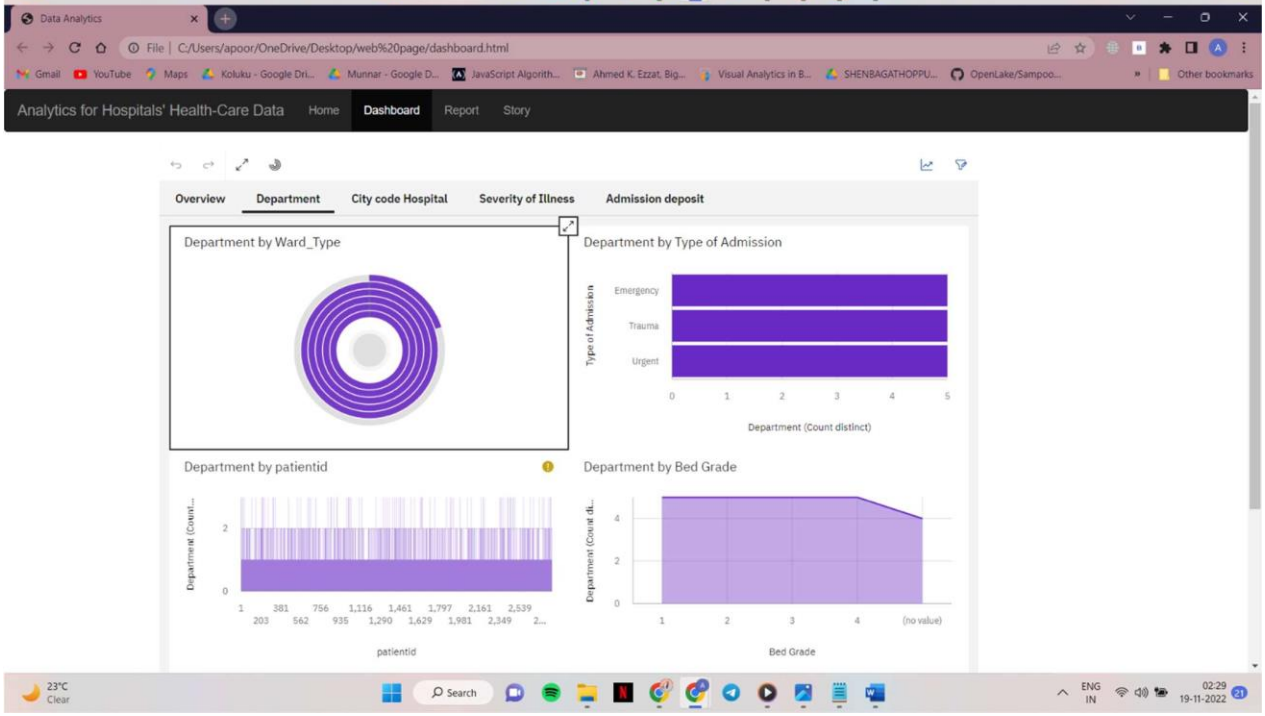


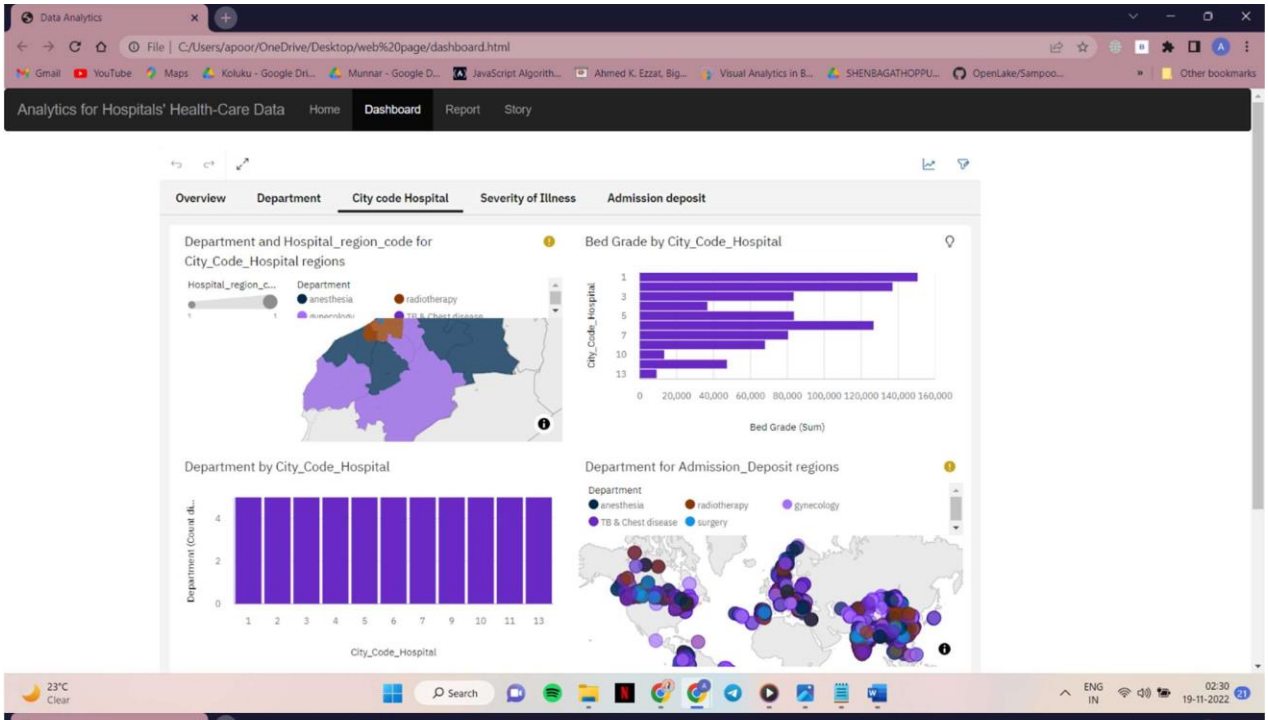
DASHBOARD PAGE :

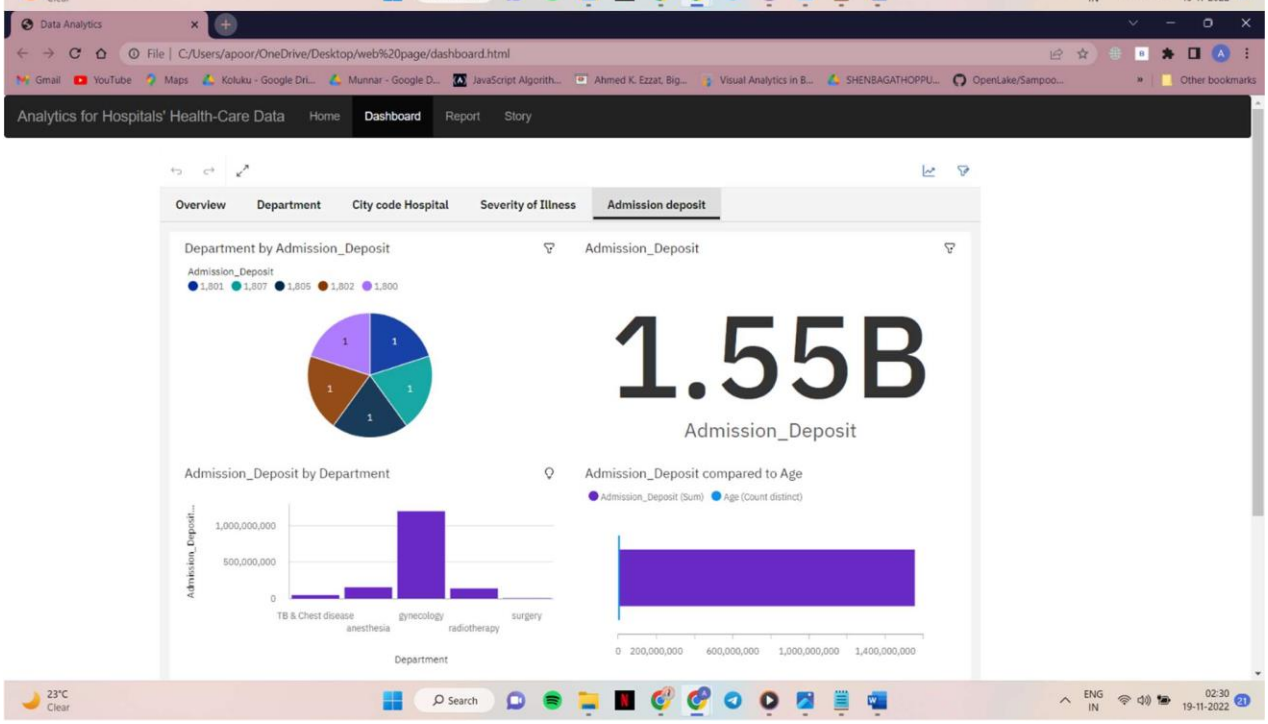
```
<!Doctype html>
<html lang="en">
<head>
<title>Data Analytics</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></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>
    <ul class="nav navbar-nav">
      <li><a href="index.html">Home</a></li>
      <li class="active"><a href="#">Dashboard</a></li>
      <li><a href="report.html">Report</a></li>
      <li><a href="story.html">Story</a></li>
    </ul>
  </div>
</nav>

<div class="container">
       <iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&amp;pathRef=.my_folders%2Fsprint
3&amp;closeWindowOnLastView=true&amp;ui_appbar=false&amp;ui_navbar=false&amp;shareMode=embedded&
amp;action=view&amp;mode=dashboard&amp;subView=model000001848bea4a5e_00000000" width="1000"
height="900" frameborder="0" gesture="media" allow="encrypted-media"
allowfullscreen=""></iframe>
</div>

</body>
</html>
```

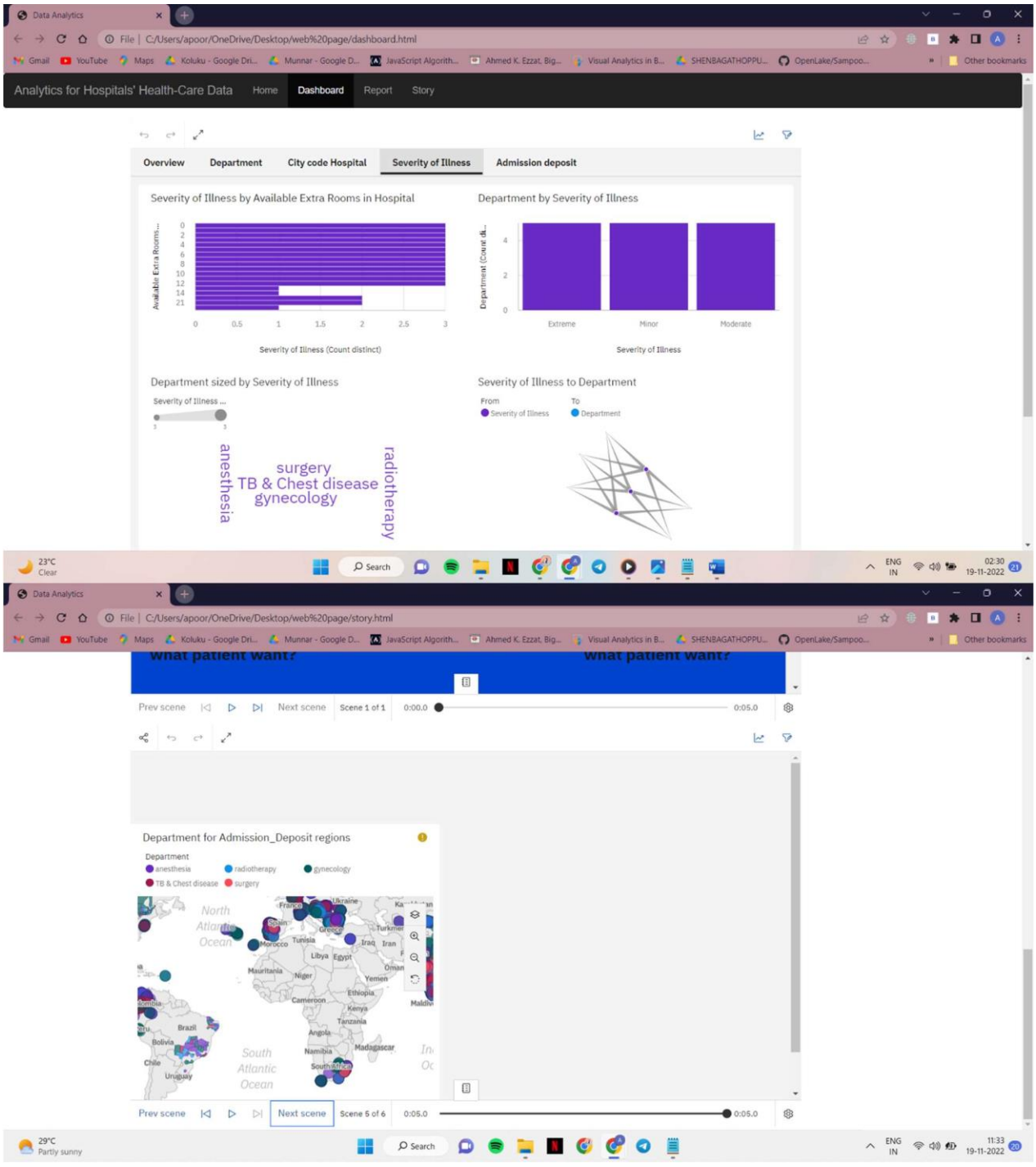
OUTPUT :


Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/dashboard.html
Analytics for Hospitals' Health-Care Data
Home
Dashboard
Report
Story
Overview
Department
City code Hospital
Severity of Illness
Admission deposit
Department by Severity of Illness
Extreme
Minor
Severity of Illness by Severity of Illness
Available Extra Rooms in Hospital
Department
Bed Grade
1.02M
Available Extra Rooms in Hospital
5
Department
836K
Bed Grade
Visitors with Patient
patientid
1.05M
Visitors with Patient
20.9B
patientid
1.55B
Admission_Deposit


Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/dashboard.html
Analytics for Hospitals' Health-Care Data
Home
Dashboard
Report
Story
Overview
Department
City code Hospital
Severity of Illness
Admission deposit
Department by Ward_Type
Department by Type of Admission
Emergency
Trauma
Urgent
Department (Count distinct)
Department by patientid
patientid
Department by Bed Grade
Bed Grade
(no value)


Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/dashboard.html
Analytics for Hospitals' Health-Care Data
Home
Dashboard
Report
Story
Overview
Department
City code Hospital
Severity of Illness
Admission deposit
Department and Hospital_region_code for City_Code_Hospital regions
Hospital_region_c...
Department
anesthesia
radiotherapy
Bed Grade by City_Code_Hospital
City_Code_Hospital
Bed Grade (Sum)
Department by City_Code_Hospital
Department (Count di...
City_Code_Hospital
Department for Admission_Deposit regions
Department
anesthesia
radiotherapy
gynecology
TB & Chest disease
surgery
23°C
Clear
Search
ENG
IN
02:30
19-11-2022

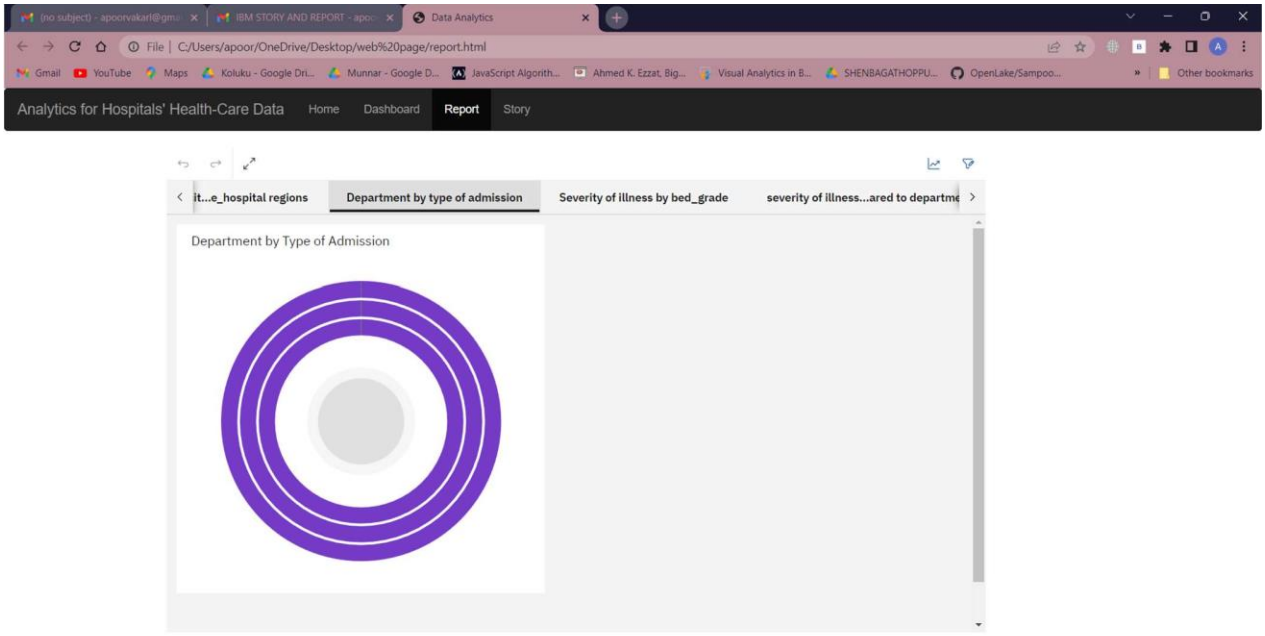

Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/dashboard.html
Analytics for Hospitals' Health-Care Data
Home
Dashboard
Report
Story
Overview
Department
City code Hospital
Severity of Illness
Admission deposit
Department by Admission_Deposit
Admission_Deposit
1,801
1,807
1,805
1,802
1,800
Admission_Deposit
1.55B
Admission_Deposit
Admission_Deposit by Department
Admission_Deposit...
1,000,000,000
500,000,000
0
TB & Chest disease
anesthesia
gynecology
radiotherapy
surgery
Department
Admission_Deposit compared to Age
Admission_Deposit (Sum)
Age (Count distinct)
0
200,000,000
600,000,000
1,000,000,000
1,400,000,000
23°C
Clear
Search
ENG
IN
02:30
19-11-2022

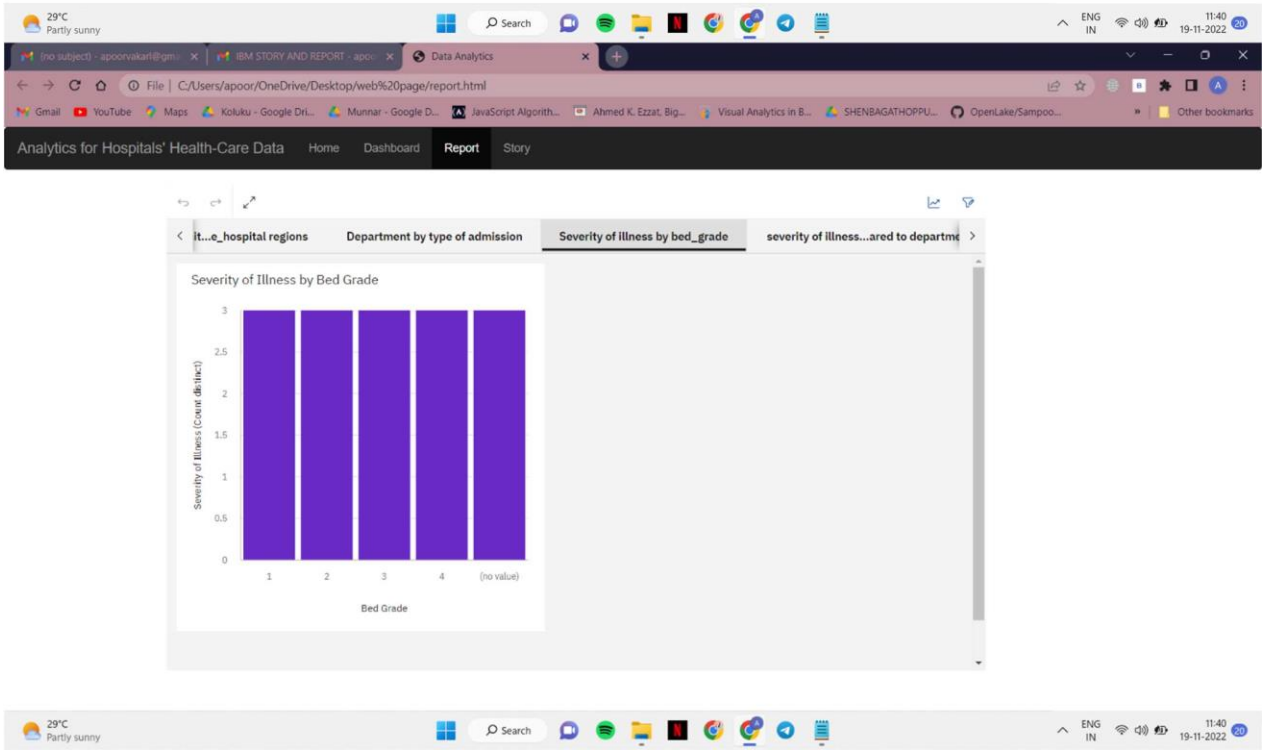

Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/dashboard.html
Analytics for Hospitals' Health-Care Data
Home
Dashboard
Report
Story
Overview
Department
City code Hospital
Severity of Illness
Admission deposit
Severity of Illness by Available Extra Rooms in Hospital
Available Extra Rooms...
Severity of Illness (Count distinct)
Department by Severity of Illness
Department (Count di...
Extreme
Minor
Moderate
Severity of Illness
Department sized by Severity of Illness
Severity of Illness ...
anesthesia
surgery
TB & Chest disease
gynecology
radiotherapy
Severity of Illness to Department
From
Severity of Illness
To
Department
23°C
Clear
Search
ENG
IN
02:30
19-11-2022
Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/story.html
what patient want?
what patient want?
Prev scene
Next scene
Scene 1 of 1
0:00.0
0:05.0
Department for Admission_Deposit regions
Department
anesthesia
radiotherapy
gynecology
TB & Chest disease
surgery
North Atlantic Ocean
South Atlantic Ocean
Prev scene
Next scene
Scene 5 of 6
0:05.0
0:05.0
29°C
Partly sunny
Search
ENG
IN
11:33
19-11-2022

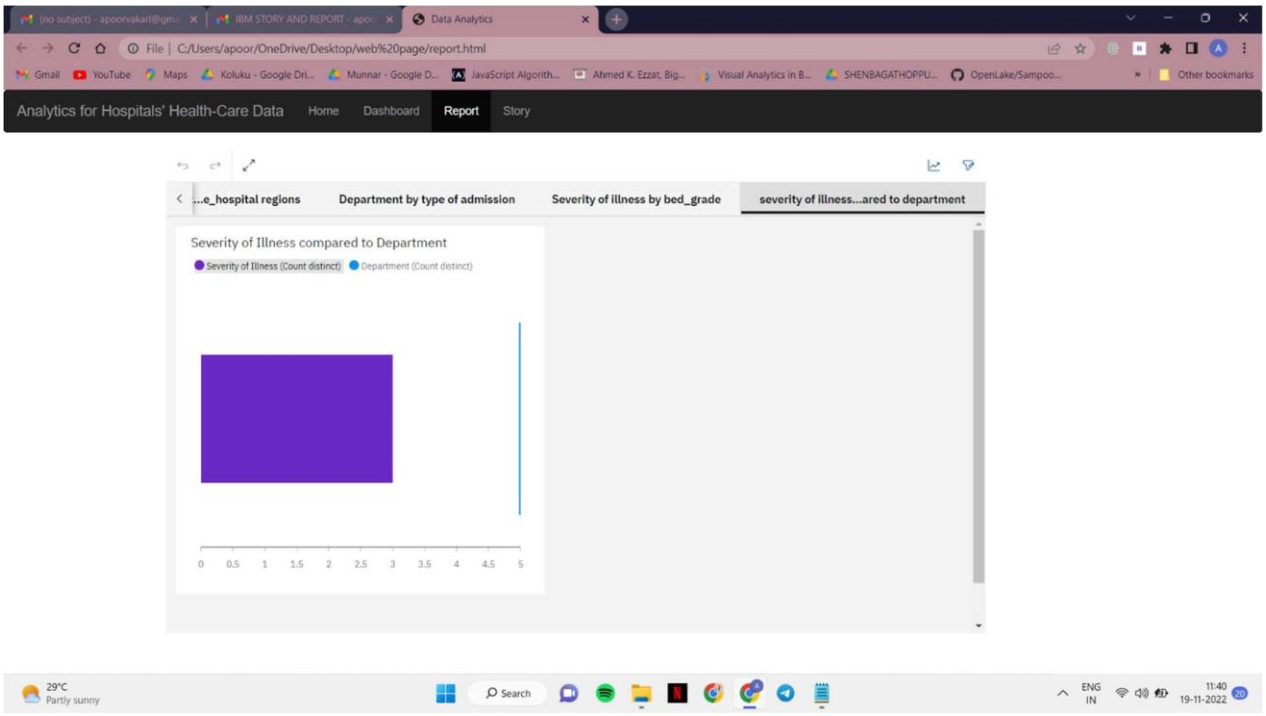
REPORT PAGE :

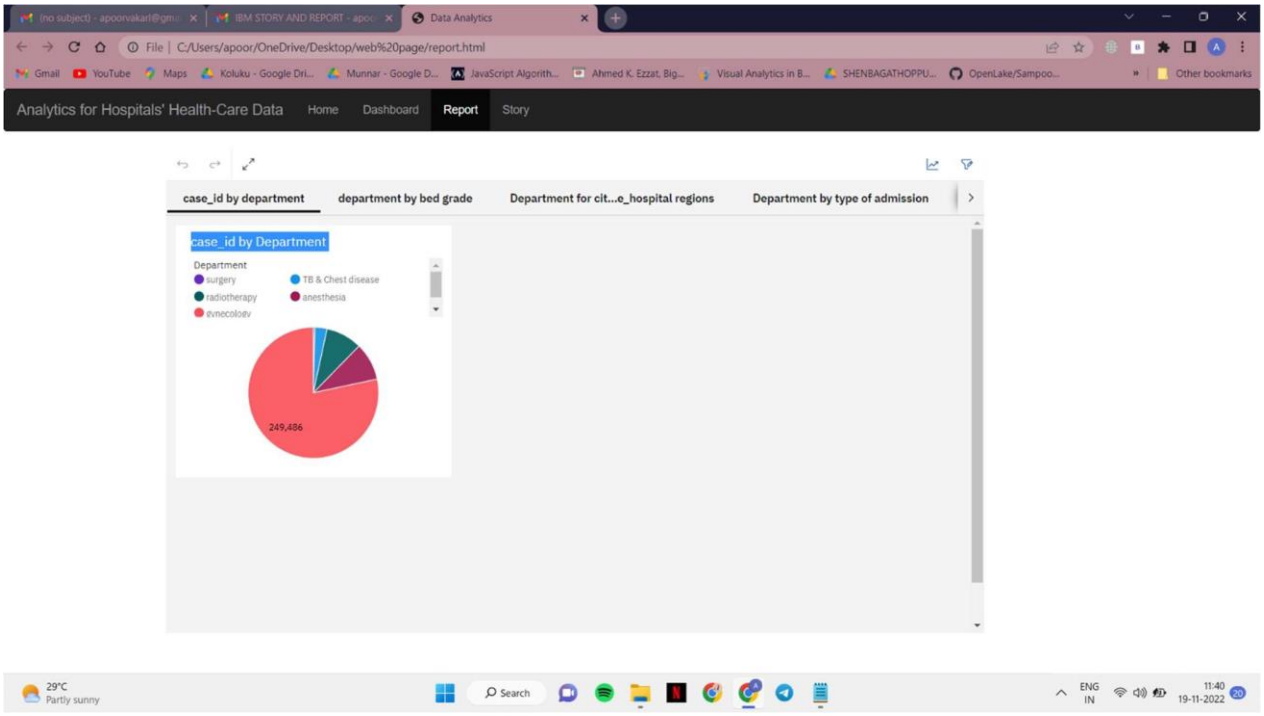
```
<!DOCTYPE html>
<html lang="en">
<head>
 <title>Data Analytics</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></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>
    <ul class="nav navbar-nav">
      <li><a href="index.html">Home</a></li>
      <li><a href="dashboard.html">Dashboard</a></li>
      <li class="active"><a href="#">Report</a></li>
      <li><a href="story.html">Story</a></li>

    </ul>
  </div>
</nav>

<div class="container">

<iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&amp;pathRef=.my_folders%2FSprint
4%2Breport%2Bcreation&amp;closeWindowOnLastView=true&amp;ui_appbar=false&amp;ui_navbar=false&amp
;shareMode=embedded&amp;action=view&amp;mode=dashboard&amp;subView=model000001848e402dbc_0000000
0" width="1000" height="600" frameborder="0" gesture="media" allow="encrypted-media"
allowfullscreen=""></iframe>

</br>

</div>

</body>
</html>
```

OUTPUT:


Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/report.html
Analytics for Hospitals' Health-Care Data
Home
Dashboard
Report
Story
Department by type of admission
Severity of illness by bed_grade
Department by Type of Admission


29°C
Partly sunny
Search
ENG
IN
11:40
19-11-2022
Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/report.html
Analytics for Hospitals' Health-Care Data
Home
Dashboard
Report
Story
Department by type of admission
Severity of illness by bed_grade
Severity of Illness by Bed Grade
Severity of Illness (Count distinct)
Bed Grade
1
2
3
4
(no value)


Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/report.html
Analytics for Hospitals' Health-Care Data
Home
Dashboard
Report
Story
...e_hospital regions
Department by type of admission
Severity of illness by bed_grade
severity of illness...ared to department
Severity of Illness compared to Department
Severity of Illness (Count distinct)
Department (Count distinct)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
29°C
Partly sunny
Search
ENG
IN
11:40
19-11-2022

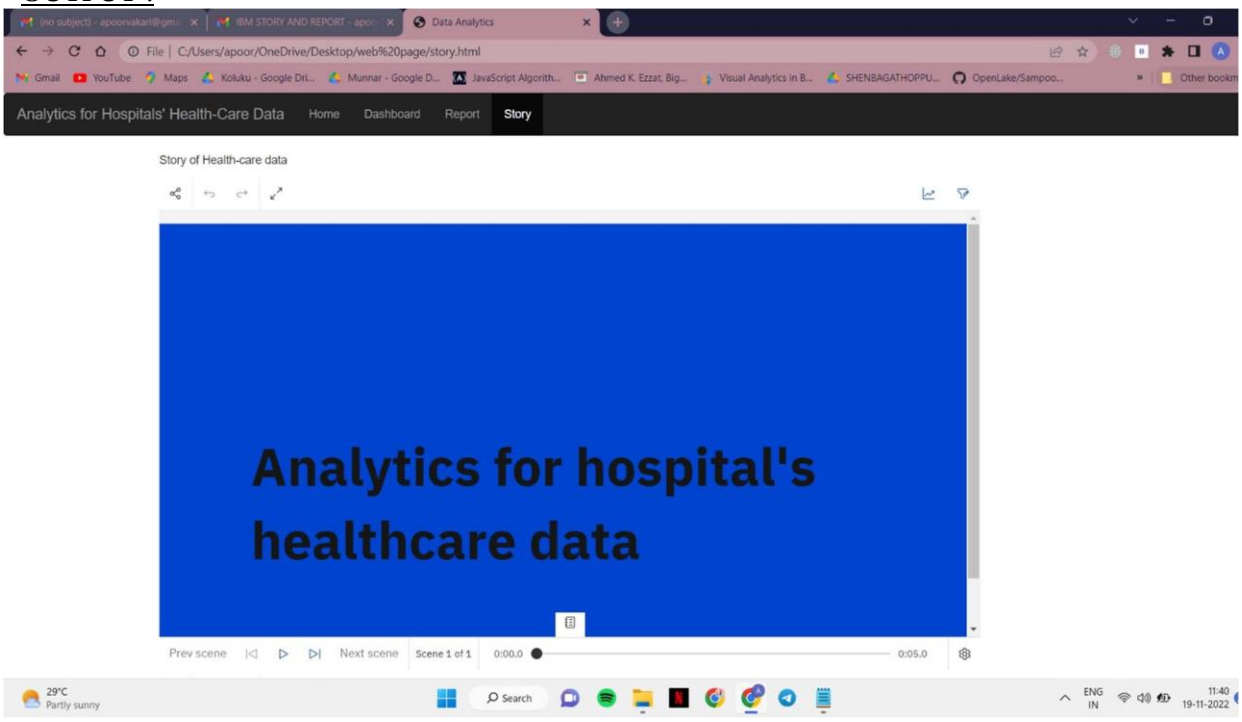

Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/report.html
Analytics for Hospitals' Health-Care Data
Home
Dashboard
Report
Story
case_id by department
department by bed grade
Department for cit...e_hospital regions
Department by type of admission
case_id by Department
Department
surgery
TB & Chest disease
radiotherapy
anesthesia
249,486
29°C
Partly sunny
Search
ENG
IN
11:40
19-11-2022

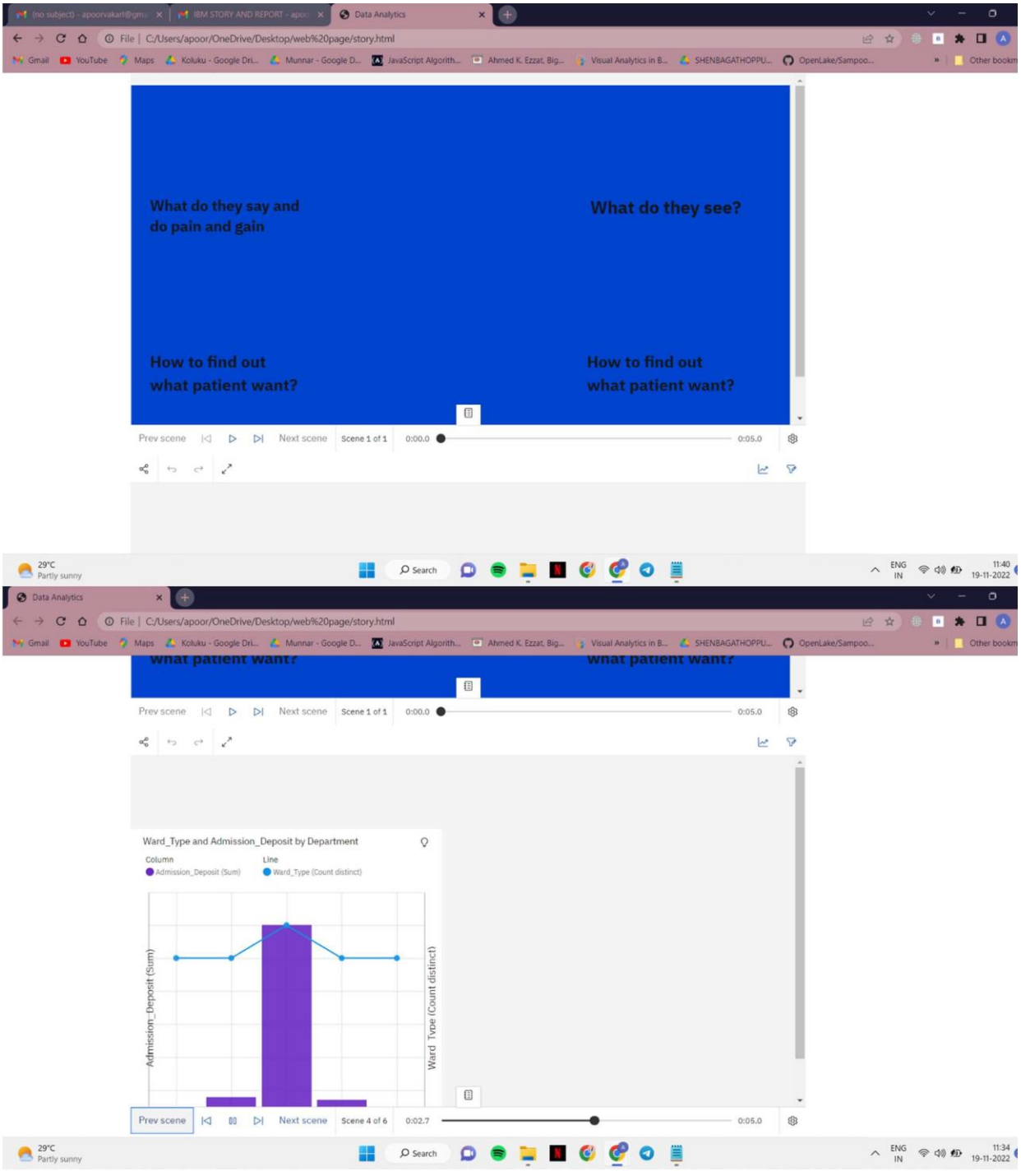
STORY :

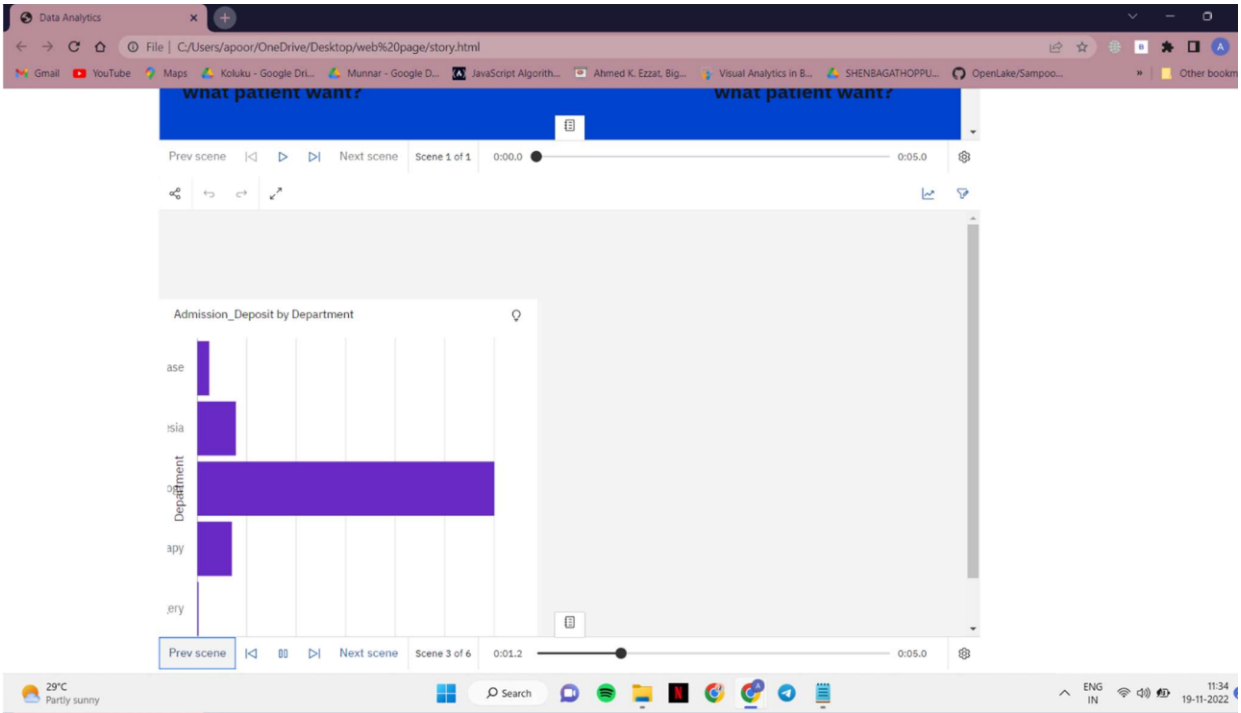
```
<!DOCTYPE html>
<html lang="en">
<head>
 <title>Data Analytics</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></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>
    <ul class="nav navbar-nav">
      <li><a href="index.html">Home</a></li>
      <li><a href="dashboard.html">Dashboard</a></li>
      <li><a href="report.html">Report</a></li>
      <li class="active"><a href="#">Story</a></li>

    </ul>
  </div>
</nav>

<div class="container">
<p>Story of Health-care data</p>
<iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=story&amp;pathRef=.my_folders%2FNew%2Bstory
&amp;closeWindowOnLastView=true&amp;ui_appbar=false&amp;ui_navbar=false&amp;shareMode=embedded&am
p;action=view&amp;sceneId=model000001848e2967c2_00000002&amp;sceneTime=0" width="1000"
height="600" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
</br>
</div>
<div class="container">

<iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=story&amp;pathRef=.my_folders%2FNew%2Bstory
2&amp;closeWindowOnLastView=true&amp;ui_appbar=false&amp;ui_navbar=false&amp;shareMode=embedded&a
```

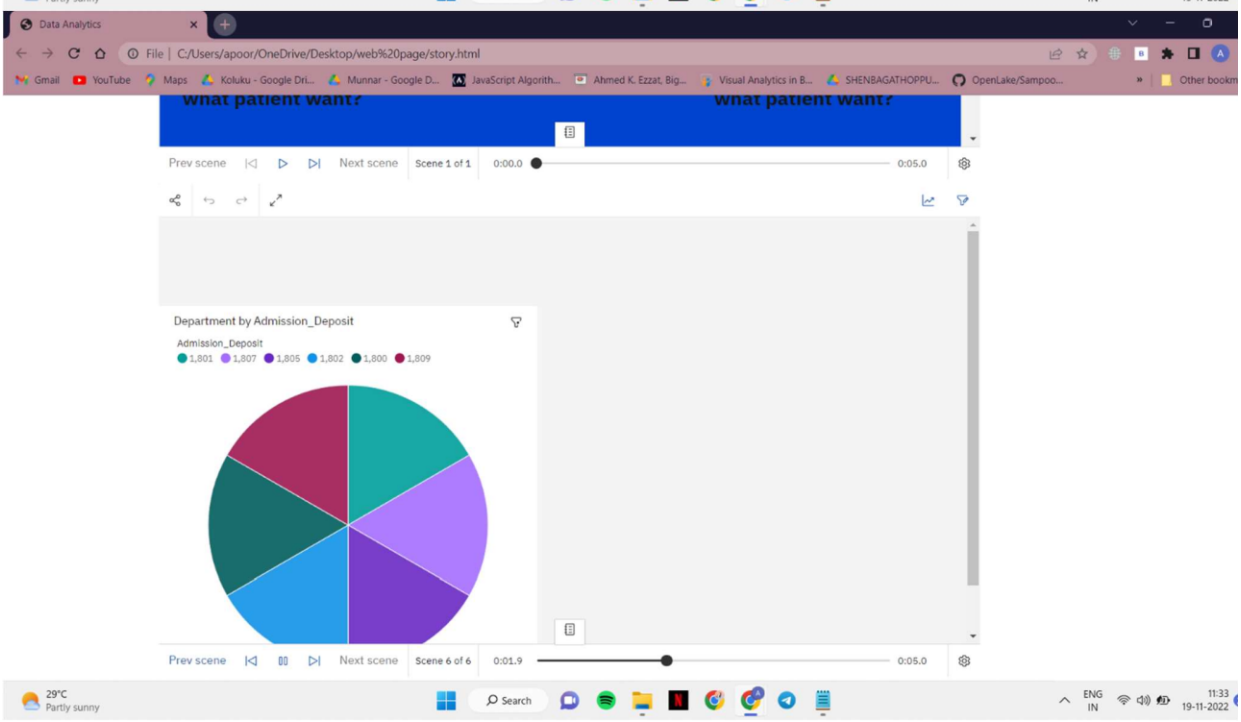
```
mp;action=view&amp;sceneId=model000001848e2f216f_00000000&amp;sceneTime=0" width="1000"
height="600" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
</br>
</div>


<div class="container">
<iframe
src="https://us3.ca.analytics.ibm.com/bi/?perspective=story&amp;pathRef=.my_folders%2FNew%2Bstory
3&amp;closeWindowOnLastView=true&amp;ui_appbar=false&amp;ui_navbar=false&amp;shareMode=embedded&a
mp;action=view&amp;sceneId=model000001848e33666e_00000002&amp;sceneTime=0" width="1000"
height="600" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
</br>
</div>


</body>
</html>
```

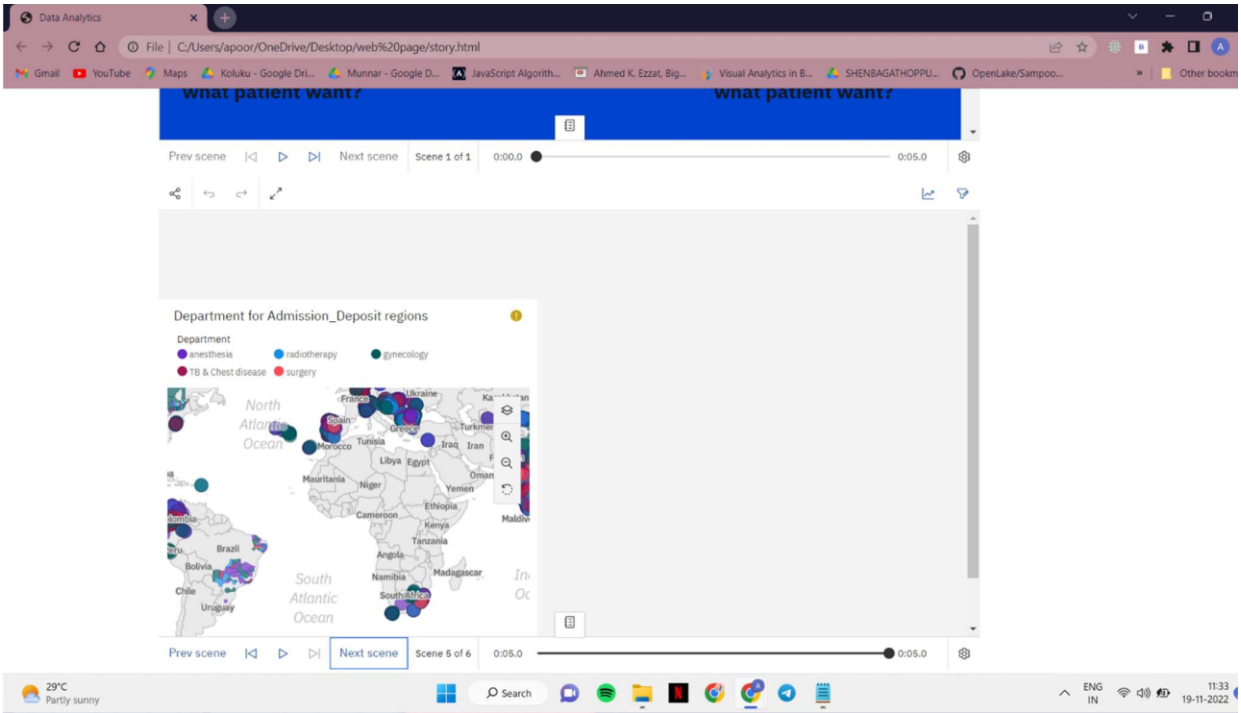
OUTPUT :

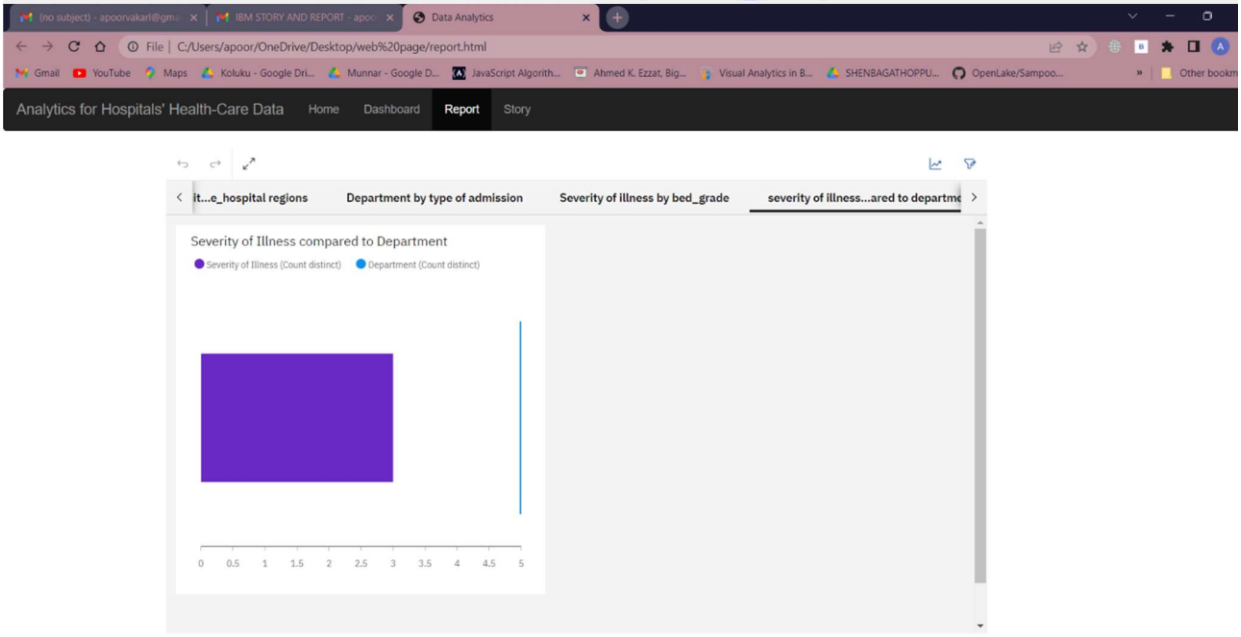



Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/story.html
What do they say and do pain and gain
What do they see?
How to find out what patient want?
How to find out what patient want?
Prev scene
Next scene
Scene 1 of 1
0:00.0
0:05.0
Ward_Type and Admission_Deposit by Department
Column
Admission_Deposit (Sum)
Line
Ward_Type (Count distinct)
Admission_Deposit (Sum)
Ward_Type (Count distinct)
Prev scene
Next scene
Scene 4 of 6
0:02.7
0:05.0
29°C
Partly sunny
Search
ENG
IN
11:40
19-11-2022
11:34
19-11-2022


Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/story.html
what patient want?
what patient want?
Prev scene
Next scene
Scene 1 of 1
0:00.0
0:05.0
Admission_Deposit by Department
Department
Prev scene
Next scene
Scene 3 of 6
0:01.2
0:05.0
29°C
Partly sunny
Search
ENG
IN
11:34
19-11-2022


Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/story.html
what patient want?
what patient want?
Prev scene
Next scene
Scene 1 of 1
0:00.0
0:05.0
Department by Admission_Deposit
Admission_Deposit
1,801
1,807
1,805
1,802
1,800
1,809
Prev scene
Next scene
Scene 6 of 6
0:01.9
0:05.0
29°C
Partly sunny
Search
ENG
IN
11:33
19-11-2022


Data Analytics
File | C:/Users/apoor/OneDrive/Desktop/web%20page/story.html
what patient want?
what patient want?
Prev scene
Next scene
Scene 1 of 1
0:00.0
0:05.0
Department for Admission_Deposit regions
Department
anesthesia
radiotherapy
gynecology
TB & Chest disease
surgery
North Atlantic Ocean
South Atlantic Ocean
Prev scene
Next scene
Scene 5 of 6
0:05.0
0:05.0
29°C
Partly sunny
Search
ENG
IN
11:33
19-11-2022


File | C:/Users/apoor/OneDrive/Desktop/web%20page/report.html
Analytics for Hospitals' Health-Care Data
Home
Dashboard
Report
Story
t...e_hospital regions
Department by type of admission
Severity of illness by bed_grade
severity of illness...ared to departme
Severity of Illness compared to Department
Severity of Illness (Count distinct)
Department (Count distinct)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
29°C
Partly sunny
Search
ENG
IN
11:40
19-11-2022