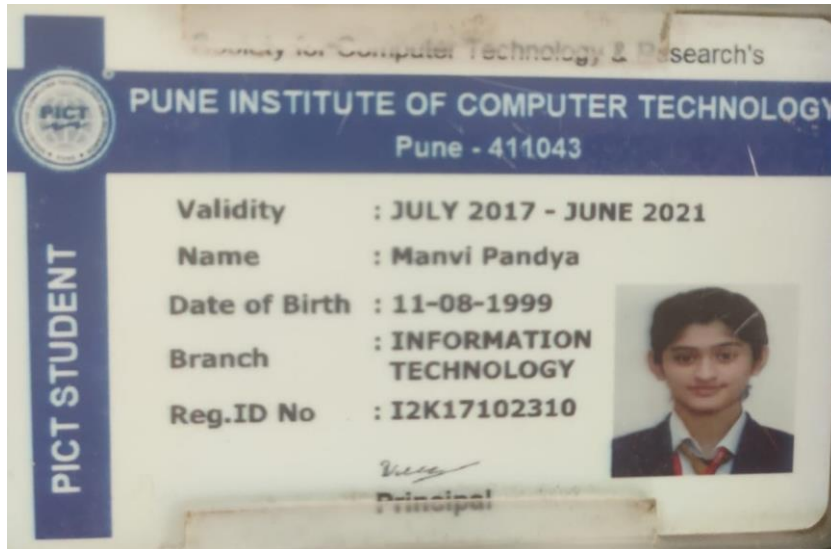# Assignment 5

Name : Manvi Pandya
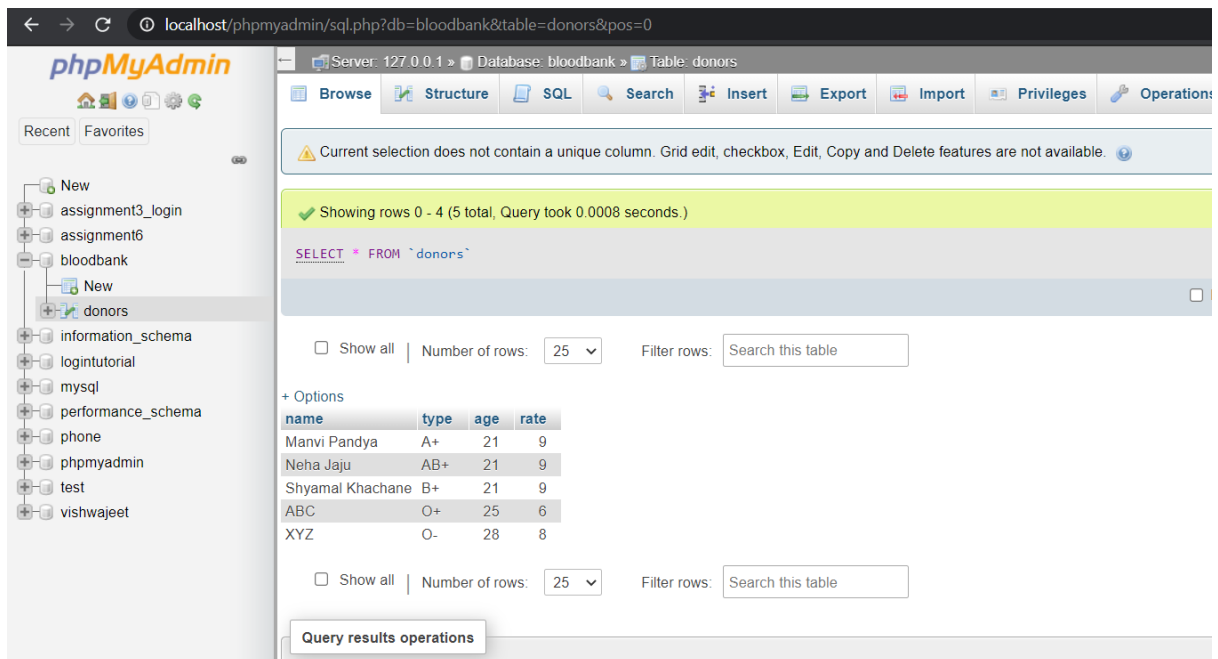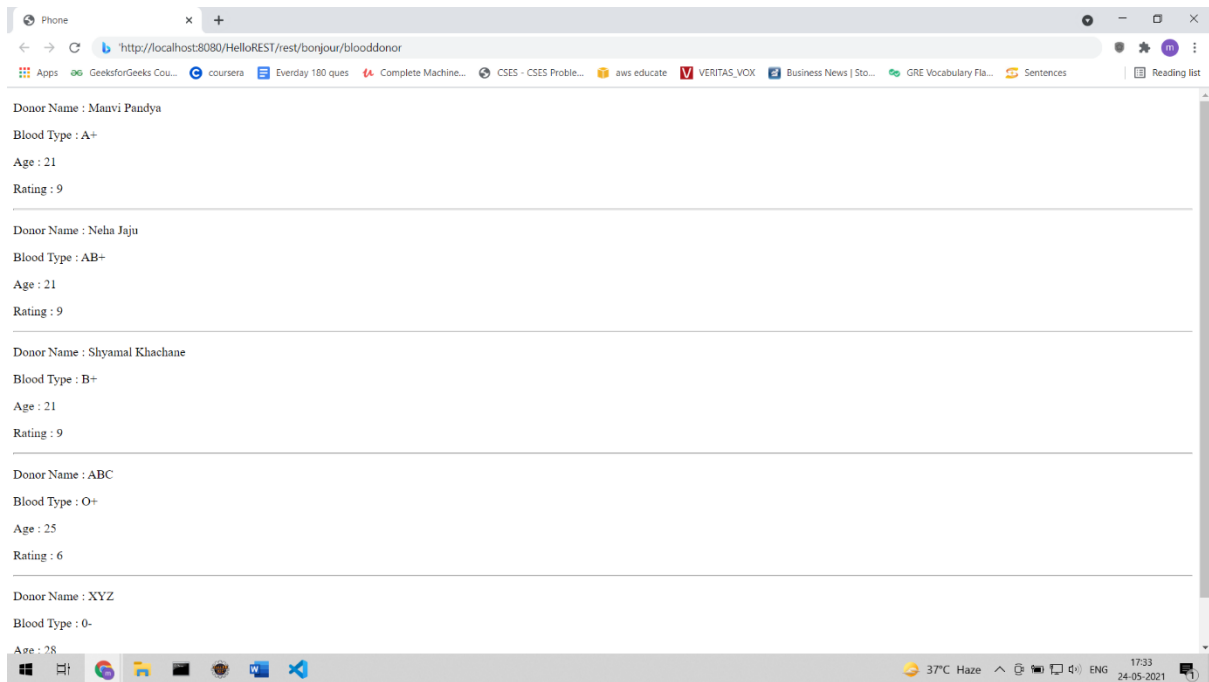
Roll NO :43233

Batch – R10

Java RESTful web service with Jersey

Implemented a java web service - RESTful service using Jersey and javascript to fetch data of phone specifications from database and send it to the client.

Output

http://localhost:8080/HelloREST/index.html

Codes

Index.html

```
<!DOCTYPE html>
<html lang="en">


<head>
  <meta charset="UTF-8">
```

```html
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Blood Bank</title>
    <link href="style.css" rel="stylesheet">
</head>

<body>
    <div id="root"></div>
    <script src="scripts.js"></script>
</body>

</html>
```

Scripts.js

```javascript
const app = document.getElementById('root');
const container = document.createElement('div');
container.setAttribute('class', 'container');

app.appendChild(container);

var request = new XMLHttpRequest();
request.open('GET', 'http://localhost:8080/HelloREST/rest/bonjour/blooddonor',
 true);
request.onload = function () {

  var data = JSON.parse(this.response);
  if (request.status >= 200 && request.status < 400) {
    data.forEach(blooddonors => {
      console.log(blooddonors.name,blooddonors.type,blooddonors.age,blooddonor
s.rate)

      const card = document.createElement('div')
      /*card.setAttribute('class', 'card')*/

      const h1 = document.createElement('h1')
      h1.textContent = blooddonors.name

      const p = document.createElement('p')
      p.textContent = `Manufacturer : ${blooddonors.type} `

    const q = document.createElement('p')
      q.textContent = `Price : ${blooddonors.age} `

    const r = document.createElement('p')
      r.textContent = `RAM : ${blooddonors.rate}`


      container.appendChild(card)
```

```javascript
      card.appendChild(h1)
      card.appendChild(p)
      card.appendChild(q)
      card.appendChild(r)


    });
  } else {
    const errorMessage = document.createElement('marquee');
    errorMessage.textContent = `It's not working!`;
    app.appendChild(errorMessage);
  }
}
request.send();
```

Web.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns="http://xmlns.jcp.org/xml/ns/javaee" xsi:schemaLocation="http:
//xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-
app_3_1.xsd" id="WebApp_ID" version="3.1">
  <display-name>HelloREST</display-name>
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.htm</welcome-file>
    <welcome-file>default.jsp</welcome-file>
  </welcome-file-list>
<servlet>
    <servlet-name>Jersey REST Service</servlet-name>
    <servlet-class>org.glassfish.jersey.servlet.ServletContainer</servlet-
class>
    <init-param>
        <param-name>jersey.config.server.provider.packages</param-name>
        <param-value>net.codejava.ws</param-value>
    </init-param>
    <load-on-startup>1</load-on-startup>
</servlet>

<servlet-mapping>
    <servlet-name>Jersey REST Service</servlet-name>
    <url-pattern>/rest/*</url-pattern>
</servlet-mapping>
</web-app>
```

POM.xml

```xml
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.or
g/2001/XMLSchema-
instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.
apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>net.codejava.ws</groupId>
  <artifactId>HelloREST</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <packaging>war</packaging>
 <dependencies>
        <dependency>
    <groupId>org.glassfish.jersey.containers</groupId>
    <artifactId>jersey-container-servlet</artifactId>
    <version>2.29.1</version>
</dependency>
<dependency>
    <groupId>org.glassfish.jersey.inject</groupId>
    <artifactId>jersey-hk2</artifactId>
    <version>2.29.1</version>
</dependency>
<dependency>
    <groupId>mysql</groupId>
    <artifactId>mysql-connector-java</artifactId>
    <version>5.1.39</version>
</dependency>
<dependency>
    <groupId>org.glassfish.jersey.media</groupId>
    <artifactId>jersey-media-json-jackson</artifactId>
    <version>2.29.1</version>
</dependency>
  </dependencies>
  <build>
    <sourceDirectory>src</sourceDirectory>
    <plugins>
      <plugin>
        <artifactId>maven-war-plugin</artifactId>
        <version>2.6</version>
        <configuration>
          <warSourceDirectory>WebContent</warSourceDirectory>
          <failOnMissingWebXml>false</failOnMissingWebXml>
        </configuration>
      </plugin>
      <plugin>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.3</version>
        <configuration>
          <source>1.7</source>
          <target>1.7</target>
```

```xml
            </configuration>
        </plugin>
      </plugins>
    </build>
</project>
```