Final Report of Tax Management System:

**Introduction:**

**Problem Domain:**

**Solution Implemented:**

**Project Scope:**

**Implementation methodology:**

The project is implemented on Netbeans IDE and MySQL is connected to the project by JDBC connector. The project is a web application that is run on the Google Chrome via Apache Tomcat Server.

**ERD Diagram:**

**Stored Procedures:**

The stored procedures have been used to calculate the tax of each sub management system based on the data in the column of the tables. The following stored procedures are deployed on the database:

**Vehicle\_tax\_active:**

**SQL Syntax**:

create procedure vehicle\_tax\_active(in engine\_size int)

select if(engine\_size < 1000,800,

(select if(engine\_size < 1200,1500,

(select if(engine\_size < 1300,1750,

(select if(engine\_size < 1500,2500,

(select if(engine\_size < 1600,3750,

(select if(engine\_size < 2000,4500,10000))))))))))) ;

**Purpose:**

This stored procedure is used to calculate the tax on the vehicle based on the engine size of the vehicle. According to the requirements of FBR, the tax charged on the vehicle is based on the engine size and engine sizes of specific range have the same tax as implemented in the sored procedure.

**Property\_tax:**

**SQL Syntax:**

create procedure property\_tax(in CNIC integer, out tax float)

select 0.05\*sum(pt.annual\_value) into tax from property\_tax as pt

group by pt.CNIC

having CNIC = pt.CNIC;

**Purpose:**

This stored procedure is used to calculate the amount of tax charged on the property of the tax payer. According to the regulations of FBR, the tax charged is 5 % of the annual value of the property as implemented in the stored procedures.

**Income\_tax:**

**SQL Syntax:**

**Purpose:**

This stored procedure is used to calculate the amount of tax charged on the annual income of the tax payer. According to the regulations of FBR, the tax charged is 7% of the annual income as implemented in the stored procedures.

**Sales\_tax:**

**SQL Syntax:**

**Purpose:**

This stored procedure is used to calculate the amount of tax charged on the items sold by a retailer. According to the regulations of FBR, the tax charged is 17 % of the total value of goods as implemented in the stored procedures.

**Views:**

**Active\_tax\_payer:**

The active tax payer is a view created in the database. The active tax payer is a person who is registered in all the tax management systems and payment status is paid in all management systems. This active tax payer is a view that contains the CNIC of all the tax payers who are registered in all tax management systems and paid their taxes.